CURRICULUM VITAE

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Professional Experience

1970-72	Post-doctoral Fellow (in the European Programme of the Royal Society of Great Britain) with Professor Piet Borst, (University of Amsterdam).
1972-73	EMBO Postdoctoral Fellow with Prof. C. Weissmann of the Institut fur Molekularbiologie der Universitat Zurich.
1974-79	Instructor/Assistant Professor of Biochemistry (equivalent), University of Amsterdam.
1979-82	Head, Laboratory of Gene Structure and Expression at the National Institute for Medical Research, Mill Hill, London.
1982-88	President, Biogen Research Corporation, Cambridge, Massachusetts, USA.
1984-88	Chief Scientific Officer, Biogen N.V. Offices located in Cambridge Massachusetts, USA.
1988	Chairman and Professor of Immunobiology, Yale University School of Medicine. Professor of Biology, Yale University.
1988	Investigator, Howard Hughes Medical Institute.
1995	Darwin Trust Visiting Professor, Department of Cellular and Molecular Biology, University of Edinburgh, Scotland (May through August, 1995).
2002	Sterling Professor of Immunobiology, Yale University School of Medicine.
2007	Honorary Professor, Wuhan University, China
2007	Honorary Professor, Nan Kai University, China
2009	Adjunct Professor, Scripps Research Institute, Florida
2010	Honorary Professor, Soochow University, China
2014-15	President, International Cytokine and Interferon Society

Education

1964-70	University of Hull, Great Britain. B.Sc. Biochemistry (Honors) 1967, Ph.D. (Biochemistry), Hull, Awarded October 1970. Title of Thesis: "Studies on the DNA of protozoa".

Awards and Memberships

1978	Elected member of EMBO
1980	FEBS Anniversary Prize
1980	1980 Colworth Medal (awarded for the most promising British biochemist under 35)
1984	Elected Fellow of The Royal Society
1984	Elected Member of the Royal Institution of Great Britain
1995	Darwin Trust Prize, University of Edinburgh
2000	Elected Fellow of the American Association for the Advancement of Science
2001	Distinguished Service Award, Miami Nature Biotechnology Winter Symposia
2002	Elected Member of the National Academy of Sciences
2006	Elected Member of the Institute of Medicine
2007	Elected Member of the Henry Kunkel Society

2008 The Rabbi Shai Shacknai Memorial Prize in Immunology and Cancer Research for 2008
2008 AAI Invitrogen Meritorious Career Award
2010 Honorary Professor, Soochow University, China
2011 Founding Member, European Academy for Tumor Immunology (EATI)
2011 Andrew Lazarovitz Award, Canadian Society of Transplantation, Quebec
2011 Honorary Professor, Division of Infection and Immunity, University College London
2011 Cell Signaling Networks 2011 in Merida, Yucatan, Mexico. The Gold Medal and Certificate of Honor for his outstanding contributions to understanding of the immune system using reverse genetics in the mouse.
2012 Board of Honorary Advisors of the IUBMB
2012 The William B. Coley Award for Distinguished Research in Basic and Tumor Immunology
2013 The Vilcek Prize in Biomedical Science
2013 Honorary Member, The Scandinavian Society for Immunology
2013 Honorary Director of the International Immunology Center of the Biomedical Translational Research Institute, Jinan University, Guangzhou
2014 Honorary Member of The British Society for Immunology
2014 President, International Cytokine and Interferon Society
2014 2014 Star of Hope Award, JDRF Connecticut Chapter
2016 2016 AAI Excellence in Mentoring Award, American Association of Immunologists
2016 Doctor of Science, *Honoris Causa*, University of Hull
2017 Hans Bloemendal Medal, Radboud Institute for Molecular Life Science, The Netherlands
2017 2017 Seymour & Vivian Milstein Award for Excellence in Interferon and Cytokine Research, International Cytokine & Interferon Society (ICIS)

Distinguished Lectures

1990 Harriman Lecture, National Institute for Medical Research, Mill Hill, London
1995 Ray A. and Robert L. Kroc Lectureship in Viral Immunobiology, The Scripps Research Institute
1997 Ray A. and Robert L. Kroc Lecturer, Elliott H. Joslin Research Laboratory
1998 Keynote Speaker (Conference Inaugural), Mexican Congress of Immunology, Xalapa, Veracruz
1999 Meeting Summary, Cold Spring Harbor Symposium on Quantitative Biology: Signaling Gene Expression in the Immune System, Cold Spring Harbor, NY
2000 Keynote Lecture, 8th International TNF Congress, Trondheim, Norway
2000 Plenary Speaker, Keystone Symposia 2000
2000 Distinguished College of Medicine Immunology Lecturer, University of Iowa Interdisciplinary Program in Immunology
2001 J.S. and H.R. Blumenthal Lectureship
2001 Distinguished Lecture, Ohio State Univ. Cancer and Immunology Lecture Series, Columbus, OH
2001 Distinguished Lecture, Children's Hospital Medical Center Immunology Series, Cincinnati, OH
2001 Keynote Speaker, German Society of Immunology, Dresden
2002 Dean's Lecture Series, Mt. Sinai School of Medicine, New York
2002 Distinguished Lecture, AAI Meeting on Experimental Biology 2002, New Orleans, Louisiana
2002 Joy Faith Knapp Memorial Lecture, Distinguished Lecture, The University of Chicago, Committee on Immunology
2002 Keynote Speaker, 4th Annual Vaccine Conference, Storrs, CT
2002 Keynote Speaker, 9th International Conference on TNFα Related Cytokines, San Diego, CA
2002 Ernst Schering Research Foundation Lecture Series, Berlin, Germany
2002 Honors Program Lecture Series, 3rd Lewis Thomas Lecture, New York University, New York, NY
2002 Keynote Lecture, Joint Meeting of the Belgium and Dutch Immunological Societies, Veldhoven, Holland
2003 University Lecture Series, University of Texas Southwestern Medical Center at Dallas

2003 Plenary Speaker, Keystone Symposia 2003: Transmission of Signals to the Nucleus: General Principles, Keystone, CO
2003 Plenary Speaker, Keystone Symposia 2003: Cell Biology of the Immune Response, Tahoe City, CA
2003 President's Research Seminar Series, Memorial Sloan-Kettering Cancer Center, New York, NY
2003 Guest Speaker, American Society for Clinical Pharmacology and Therapeutics Annual Symposium, Washington, DC
2003 Friedheim Lecture, The Rockefeller University Lecture Series, New York, NY
2003 Plenary Speaker, Federation of Clinical Immunology Societies, Paris, France
2003 Plenary Lecture, British Society for Immunology Summer School, 2003
2003 Plenary Lecture, International Cytokine Society Annual Meeting, Dublin, Ireland
2003 Keynote Talk, 29th Annual LaJolla Immunology Conference, San Diego, CA
2004 Keynote Speaker, Inflammatory Bowel Diseases 2004 Conference, European Postgraduate Gastro-Surgical School, University of Amsterdam, The Netherlands
2004 Distinguished Immunologist Lecturer, Distinguished Immunologist Lecture Series, University of Alberta
2004 Mathilda and Terence Kennedy Visiting Professorship Lecture, Imperial College London
2004 Keynote Speaker, 12th International Congress of Immunology and 4th Annual Conference of FOCIS, Montreal, Canada
2004 Keynote Speaker, 8th International Scleroderma Research Workshop
2004 2004 Boehringer Ingelheim Lecturer, Institut de Recherches Cliniques de Montreal
2004 Karolinska Research Lecture at Nobel Forum, Karolinska Institutet
2005 Concluding Address, Keystone Symposium, Keystone, CO
2005 Distinguished Lecture, Fox Chase Cancer Center, Philadelphia, PA
2005 Invited Speaker, Gordon Conference, Oxford, UK
2005 Plenary Speaker, International Symposium on Gene Regulation, Tokyo, Japan
2005 Edsell Lecture, Harvard, Cambridge, MA
2006 Keynote Speaker, 4th EAACI Davos meeting, Germany
2006 Plenary Speaker, World Immune Regulation meeting
2006 Keynote Address, "Drugs, Bugs and Vaccines", Galveston, TX
2006 Keynote Speaker, University of Michigan Retreat
2006 Keynote Speaker, 9th International Scleroderma Workshop
2006 Keynote Speaker, 3rd International Symposium, Kiel, Germany
2006 Plenary Speaker, 6th International Cytokine Conference, Vienna
2006 Plenary Speaker, Australian Health and Medicine Research Congress 2006
2006 Firkin Oration, National Scientific Conference, Australian Society for Medical Research
2006 Plenary Speaker, Australian Society of Immunology 2006, Auckland, New Zealand
2007 Nelson Medical Lectureship in the Humanities, University of California at Davis
2007 Plenary Speaker, Transatlantic Airway Conference 2007, Lucerne, Switzerland
2007 Keynote Speaker, Plenary Session, Symposium on Regulatory T-Cells, Vancouver, BC
2007 Plenary Speaker, Annual Meeting of the Israeli Society of Immunology, Weizmann Institute of Science
2007 Keynote Speaker, International Training Course on Molecular Immunology of Protozoan Infections, Buenos Aires, Argentina
2007 Keynote Speaker, ENII Immunology Summer School, Capo Caccia, Sardinia, Italy
2007 2007 Theobald Smith Annual Lecture, Albany Medical College
2007 Cornell University, University Lectureship Award
2007 Keynote Speaker, 6th Annual Retreat, University of Michigan Interdepartmental Ph.D.-granting Graduate Program in Immunology
2007 Plenary Speaker, Thymus and T Cell Biology Meeting, Rolduc, Netherlands
2007 Keynote Speaker, FASEB Summer Research Conference, Vermont Academy, Saxtons River, VT
2007 Chair, Plenary Session, 15th International Conference on Cytokines, San Francisco, CA
2007 2007 Peter Doherty Lecture, St. Jude Children's Research Hospital, Memphis, TN

2007 Keynote Speaker, Centre d'Immunologie de Marseille-Luminy, Marseille, France
2008 The Rabbi Shai Shacknai Memorial Prize and Lectureship in Immunology and Cancer Research for 2008
2008 Distinguished Lecture, NIH/NIEHS, Innate and Adapive Immunity, Chapel Hill, NC
2008 Keynote Speaker, Shacknai Lectureship, Hebrew University/Haddasah Medical Center, Israel
2008 Plenary Speaker, Keystone Symposium, TGF-β in Homeostasis and Disease, Santa Fe, New Mexico
2008 AAI-Invitrogen Meritorious Career Award
2008 Ernest Witebsky Memorial Lecturer, University of Buffalo, SUNY, Buffalo, NY
2009 Keynote Speaker, Th17 Cells in Health and Disease, Vancouver, Canada
2009 Grand Lecture, NVVI Course
2009 Abbott 20th Anniversary Symposium, Worcester, MA
2009 Plenary Speaker, ISDCI Meeting, Prague, Czech Republic
2009 Keynote Speaker, 4th Aegean Conference, Crete, Greece
2009 Keynote Speaker, 13th Australian Autoimmunity Workshop, Adelaide, South Australia
2009 Plenary Speaker, Korean Association of Immunologists, Seoul, Korea
2010 Keynote Speaker, Rosenstiel Awards, Brandeis University, Waltham MA
2010 Keynote Speaker, National Academy of Science, Washington, DC
2010 Special Lecture, Summer School, Juliusruh, Rugen, Germany
2010 Keynote Speaker, American Transplant Congress, San Diego, CA
2010 Plenary Speaker, American Aging Association, Portland, OR
2010 Keynote Speaker, Heidelberger-Kabat Lecture, Columbia University, New York, NY
2010 Keynote Speaker, FASEB, Carefree, AZ
2010 Keynote Speaker, 4th Miltenyi Biotec, Paris, France
2010 Keynote Lecture: ICS/Cytokines 2010, Chicago, IL
2010 Keynote Speaker, IDS, Incheon, South Korea
2010 Keynote Speaker, Cold Spring Harbor Asia, Shanghai, China
2010 Keynote Speaker, 5th esIMID Workshop, Sitges-Barcelona, Spain
2011 Keynote Speaker, TGFβ Meeting, Snowbird, Utah
2011 Keynote Speaker, 2011 Annual Scientific Meeting, Mont-Tremblant, Quebec
2011 Keynote Speaker, Microbiota/Mucosal Immunology Meeting, San Francisco, CA
2011 Dean's Distinguished Lecture Series, University of Kentucky, Lexington, KY
2011 Plenary Lecture, 13th International Union of Biochemistry and Molecular Biology, Mérida, Yucatán, México
2011 Senior Science Lecture, University College London, UK
2011 Plenary Speaker, Australasian Society for Immunology, Adelaide, Australia
2012 Keynote Speaker, University College London, UK
2012 Keynote Speaker, European Association for the Study of Diabetes, Oxford University
2012 Keynote Speaker, Immuno 2012, XXXVII Congress of the Brazilian Immunology Society, Sao Paulo, Brazil
2012 Beirne B. Carter Lecture in Immunology, University of Virginia
2013 Keynote Speaker, Royal Netherlands Academy of Arts and Sciences, NVVI Symposium Lunteren, Netherlands
2013 Keynote Speaker, Insituto Gulbenkian de Ciencia, Oeiras, Portugal
2013 Keynote Speaker, Medcon Breakthroughs in immune-mediated diseases 2013, Amsterdam, Netherlands
2013 Keynote Speaker, Metabolic Control of Inflammation and Immunity, Keystone Symposia, Breckenridge, CO
2013 Keynote Speaker, 41st Scandinavian Society for Immunology, Copenhagen, Denmark
2013 Plenary Lecture, 78th Meeting of the Japanese Society for Interferon and Cytokine Research-21st International Symposium of Macrophage Molecular and Cellular Biology, Tokyo, Japan
2013 Keynote Speaker, Autoimmunity Day, Johns Hopkins University, Baltimore, MD
2013 Fourth Annual George M. O'Brien Kidney Center at Yale Symposium
2013 Plenary Session, 14th IUBMB Conference "Host-microbe interactions," Marrakech, Morocco
2014 Plenary Session, World Immune Regulation Meeting VIII, Davos, Switzerland
2014 Distinguished Lecture, Centro Nacional de Investigaciones Oncologicas, Madrid, Spain

2014 Marsh Lecture in Molecular Medicine, Feinstein Institute for Medical Research
2014 The Carl F. Schmidt Honorary Lecture, University of Pennsylvania
2014 American Society for Microbiology Division E Lecturer, 114th General Meeting, Boston, MA
2014 Keynote Speaker, Metabolism and Immunity: A Rediscovered Frontier Meeting, Trinity College Dublin, Ireland
2014 Plenary Session, British Society for Immunology's International Inflammation and Disease Conference, Manchester Institute of Biotechnology, University of Manchester, UK
2014 Plenary Session, XXXIX Congress of the Brazilian Society of Immunology (SBI), Rio de Janeiro, Brazil
2014 Plenary Session, KAST's 20th Anniversary International Symposium, Seoul, South Korea
2014 Keynote Address, BSI Congress 2014, British Society for Immunology, Brighton, UK
2015 Keynote Lecture, Midwinter Conference 2015, Advances in Immunology, Seefeld, Tyrol, Austria
2015 Keynote Lecture, Sociedad Cinetifica Argentina, Buenos Aires, Argentina
2015 Keynote Lecture, Antimicrobial Peptides, Gordon Research Conferences, Lucca (Barga) Italy
2015 Keynote Lecture, Mechanisms of Pro-Inflammatory Diseases, Keystone Symposia, Olympic Valley, CA
2015 Keynote Lecture, Forum on Advancements in Immunology Research, Tsinghua Immunology Institute, Shanghai, China
2015 Keynote Lecture, Progress in the fight against Inflammatory Diseases and Cancer, Weizmann Institute, Rehovot, Israel
2015 Keynote Lecture, Immunocolumbia 2015, ALAI and ACAAI, Medellin, Columbia
2015 Plenary Lecture, International Symposium on Molecular Targets in Renal Disease, Bamberg, Germany
2016 Plenary Lecture, Next Gen Immunology, EMBO Conference at the Weizmann Institute of Science, Rehovot, Israel
2016 Keynote Lecture, FOCIS 2016, Boston, MA, USA
2016 Plenary Lecture, 16th International Congress of immunology (ICI), Melbourne, Australia
2016 Plenary Lecture, CRI Paris-Montmartre Symposium on Inflammation, Centre de recherche sur l'inflammation, Paris, France
2017 Plenary Lecture, 15th International Congress of the Immunology of Diabetes Society, San Francisco, CA
2017 Keynote Lecture, EMBO Metabolic Disorders - Palma de Mallorca, Spain
2017 Plenary Lecture, World Congress of Nephrology, Mexcio City, Mexico
2017 Plenary Lecture, ASN Kidney Week 2017, New Orleans, Louisiana

Scientific Meetings Organized

9 Scientific meetings including: Jane Coffin Childs Symposium, 1998; Biogen Symposium, 2002; 4 Cold Spring Harbor Symposia, 2002, 2004, 2006, 2008; 2 Keystone Symposia, 2003, 2009; International Cytokine Society Conference, 2005; 15th International Conference on Cytokines, 2007

2008 Cold Spring Harbor Laboratory, Regulation for Lymphocyte Function, New York
2009 Keystone Symposia, Pattern Recognition Molecules and Immune Sensors of Pathogens, Keystone CO (Co-Organizer with J.P. Ting and L. O'Neill).
2010 Cold Spring Harbor Asia, The Inflammasome in Health and Disease, Shanghai, China
2011 Keystone Symposia, TGF-beta in Immune Responses: From Bench to Bedside, Snowbird, Utah (Co-organizer with W. Chen and H. Weiner).
2012 Cold Spring Harbor Asia, Microbiota, Inflammasomes and Chronic Disease, Shanghai, China
2014 Keystone Symposia, Inflammatory Diseases: Recent Advances in Basic and Translational Research and Therapeutic Treatments, Vancouver, BC, Canada (Co-organizer with C. Dong and T. Kishimoto)
2014 Cold Spring Harbor Asia, Frontiers of Immunology in Health and Diseases, Suzhou, China (Co-organizer with X. Cao and T. Taniguchi).

2016 Cold Spring Harbor Asia, Frontiers of Immunology in Health & Disease, Awaji, Japan (Co-organizer with X. Cao and T. Taniguchi).
2017 Keystone Symposia, TGF-beta in Immunity, Inflammation and Cancer, Taos, New Mexico (Co-organizer with W. Chen and J.E. Konkel).
2017 Keystone Symposia, Integrating Metabolism and Immunity, Dublin, Ireland (Co-organizer with H. Chi, E.L. Pearce and L.A.J. O'Neill).

Scientific Advisory Functions

Member of numerous (16) Scientific Advisory Boards, Panels and Committees from 1979 to the present; served on NIH review group, NIH AAI Finance Committee and NIH Reviewers Reserve from 1991-95; Member, EMBO Council 1981-82; National Academy of Sciences Committee on Biotechnology 1988-91; Board of Scientific Overseers, Jackson Laboratory 1991-99; Scientific Review Committee, DKFZ 1996; Imperial Cancer Research Fund Scientific Advisory Committee 2001-02. Currently ongoing Scientific Advisory Functions are listed below.

1997- International Scientific Advisory Board of the Netherlands Cancer Institute/Antoni van Leeuwenhoek Hospital
2005- Member, Cancer Research United Kingdom London Research Institute Science Advisory Group
2006- Scientific Advisory Board, Kennedy Institute of Research
2007- International Scientific Advisory Council, The Walter and Eliza Hall Institute of Medical Research, Australia
2010- Advisory Board, International Congress of Immunology, Kobe, Japan

2008- Scientific Advisory Group, Netherlands Cancer Institute- Antoni van Leeuwenhoek Ziekenhuis, Amsterdam, Netherlands
2008- Scientific Advisory Board, Alliance for Lupus Research, Hospital for Special Surgery, New York, NY
2008- External Advisory Committee, Mt. Sinai School of Medicine, New York, NY
2008- Scientific Advisory Board, IDI
2009- Scientific Advisory Board, Research Center for Molecular Medicine of the Austrian Academy of Science, Vienna, Austria
2010- Advisory Board, International Congress of Immunology, Kobe, Japan
2010- Founding Member of the European Research Institute for Integrated Cellular Pathology (ERI-ICP)
2011- Scientific Advisory Board, GSK, London, UK
2012- Scientific Advisory Board, MD Anderson, Houston, TX
2012- Scientific Advisory Board, Gladstone Institute, San Francisco, CA
2012- Scientific Advisory Board, Generon: Therapeutic IL22, Washington, DC
2012- Scientific Advisory Board, Tempero Pharmaceuticals, Inc, Cambridge, MA
2012- Scientific Advisory Board, Centenary Institute, Australia
2013- Scientific Advisory Council, Cancer Research Institute
2013- Board of Scientific Counselors (BSC), Department of Health and Human Services

Editorial Functions

Editor: Nucleic Acids Research 1979-82, Eukaryotic Genes (Butterworths) 1980, Techniques in the Life Sciences 1981, Journal of Molecular and Applied Genetics 1983-87, EMBO Journal 1990-93, Immunity 1999-2003
Senior Editor: Genes and Function 1996-98
Managing Editor: Biochimica et Biophysica Acta 1980-85
Assoc. Editor: Immunity 1994-pres., Genes to Cells 1998-pres., Gene Screen 2000-01
Transmitting Editor: Intl. Immunology 2001-05
Editorial Boards: Journal of Autoimmunity 2002-05; Proceedings of the National Academy of Sciences 2002-07; Journal of Experimental Medicine 2006-pres.; Epigenetics and Chromatin 2008-pres.; International Immunology 2013-pres.

Advisory Editorial Bd.	Molecular Medicine Today 1995-00, EMBO Journal 2005-pres.
Board Member	Oxford Surveys on Eukaryotic Genes 1983-95
Consulting Editor	Journal of Clinical Investigation 2010-

Research Accomplishments

Richard Flavell uses transgenic and gene-targeted mice to study Innate and Adaptive immunity, T cell tolerance and activation in immunity and autoimmunity, apoptosis, and regulation of T cell differentiation.

Richard Flavell is co-discoverer of introns in cellular genes: he showed DNA methylation correlates inversely with, and prevents gene expression. He was the first to develop and employ reverse genetics as a postdoc with Weissmann and in his own lab continued in this field throughout his career; he is a pioneer in the use of this approach in vivo to study function. Dr. Flavell's laboratory studies the molecular and cellular basis of the immune response. He has been instrumental in discovering the molecular basis of T-cell differentiation from precursor cells into differentiated subsets and provided the first example of gene regulation in trans via "kissing chromosomes". Moreover his laboratory has elucidated the mechanisms of immunoregulation that prevent autoimmunity and overaggressive responses to pathogens. Finally, Dr. Flavell's laboratory has discovered the role of several receptor families in the innate immune response, including Toll-like receptors and intracellular Nod-like receptor families (NLRs). This has recently led to the elucidation of function of Nod2 in inflammatory bowel diseases and Nalp proteins in the production of IL-1. Most recently he has established the connection between inflammasomes, microbial homeostasis and chronic diseases. He showed that dysbiosis of the microbiota leads to IBD and Metabolic Syndrome, including Obesity, Fatty Liver disease and Type 2 diabetes.

Finally, Dr. Flavell's laboratory has studied the role of TGF-β in the regulation of immune response. This work is of relevance both to the control of autoimmune disease as well as evasion of immune response by tumors.

Peer-Reviewed Publications

1. **Flavell RA**, Jones G.
   Kinetic complexity of *Tetrahymena pyriformis* nuclear deoxyribonucleic acid. Biochem. J. 116:155-157 (1970). PMC1185335

2. **Flavell RA**, Jones IG.
   Mitochondrial deoxyribonucleic acid from *Tetrahymena pyriformis* and its kinetic complexity. Biochem. J. 116:811-817 (1970). PMC1185503

3. **Flavell RA**.
   Studies on the DNA of Protozoa. Ph.D. Thesis, University of Hull (1970).

4. **Flavell RA**, Follett EAC.
   Size and configuration of *Tetrahymena* mitochondrial deoxyribonucleic acid. Proc. Biochem Soc. 119:61P-62P (1970). PMC1179543

5. **Flavell RA**, Jones IG.
   Paramecium mitochondrial DNA. Renaturation and hybridization studies. Biochim. Biophys. Acta 232:255-260 (1971).

6. **Flavell RA**, Jones IG.
   Base sequence distribution in Tetrahymena mitochondrial DNA. FEBS Lett. 14:354-356 (1971).

7. **Flavell RA**, Jones IG.
DNA from isolated pellicles of Tetrahymena. J. Cell Sci. 9:719-726 (1971).

8. ter Schegget J, **Flavell RA**, Borst P.
DNA synthesis by isolated mitochondria, III. Characterization of D-loop DNA, a novel intermediate in mtDNA synthesis. Biochim. Biophys. Acta 254:1-14 (1971).

9. Williamson R, McShane T, Grunstein M, **Flavell RA**.
"Cytoplasmic" DNA from primary embryonic cell cultures is not informational. FEBS Lett. 20:108-110 (1972).

10. **Flavell RA**, Borst P, ter Schegget J.
DNA synthesis by isolated mitochondria. IV. Isolation of a new intermediate containing newly synthesized DNA in full-length light strands. Biochim. Biophys. Acta 272:341-349 (1972).

11. Arnberg AC, VanBruggen EFJ, Schutgens RBH, **Flavell RA**, Borst P.
Multiple D-loops in Tetrahymena mitochondrial DNA. Biochim. Biophys. Acta 272:487-493 (1972).

12. Hollenberg CP, Borst P, **Flavell RA**, VanKreijl CF, VanBruggen EFJ, Arnberg AC.
The unusual properties of mtDNA from a “low-density” petite mutant of yeast. Biochim. Biophys. Acta 277:44-58 (1972).

13. Van Kreijl CF, Borst P, **Flavell RA**, Hollenberg CP.
Pyrimidine tract analysis of mtDNA from a “low-density” petite mutant of yeast. Biochim. Biophys. Acta 277:61-70 (1972).

14. **Flavell RA**, Trampe PO.
The absence of an integrated copy of mitochondrial DNA in the nuclear genome of *Tetrahymena pyriformis*. Biochim. Biophys. Acta 308:101-105 (1973).

15. Arnberg AC, VanBruggen EFJ, **Flavell RA**, Borst P.
DNA synthesis by isolated mitochondria. V. Electron microscopy of replicative intermediates. Biochim. Biophys. Acta 308:276-284 (1973).

16. Sanders JPM, **Flavell RA**, Borst P, Mol JN.
Nature of the base sequence conserved in the mitochondrial DNA of a low-density petite. Biochim. Biophys. Acta 312:441-457 (1973).

17. **Flavell RA**, Birfelder EJ, Sanders JPM, Borst P.
DNA-DNA hybridization on nitrocellulose filters. I. General considerations and non-ideal kinetics. Eur. J. Biochem. 47:535-543 (1974).

18. **Flavell RA**, Borst P, Birfelder EJ.
DNA-DNA hybridization on nitrocellulose filters. II. Concatenation effects. Eur. J. Biochem. 47:545-548 (1974).

19. **Flavell RA**, Sabo DL, Bandle EF, Weissmann C.
Site-directed mutagenesis: Generation of an extracistronic mutation in bacteriophage QβRNA. J. Mol. Biol. 89 255-272 (1974).

20. Groot GSP, **Flavell RA**, VanOmmen GJB, Grivell LA.
Yeast mitochondrial RNA does not contain poly(A). Nature 252:167-169 (1974).

21. Talen JL, Sanders JPM, **Flavell RA**.
Genetic complexity of mitochondrial DNA from Euglena gracilis. Biochim. Biophys. Acta 374:129-135 (1974).

22. **Flavell RA**, Sabo DLO, Bandle EF, Weissmann C.
Site-directed mutagenesis: Effect of an extracistronic mutation on the *in vitro* propagation of bacteriophage Qβ RNA. Proc. Natl. Acad. Sci. USA 72:367-371 (1975). PMC432306

23. Groot GSP, **Flavell RA**, Sanders JPM.
Sequence homology of nuclear and mitochondrial DNAs of different yeasts. Biochim. Biophys. Acta 378:186-194 (1975).

24. **Flavell RA**, VanDenBerg FM.
The isolation of duplex DNA containing (dA.dT) clusters by affinity chromatography on poly(U) sephadex. FEBS Lett. 58:90-93 (1975).

25. Domingo E, **Flavell RA**, Weissmann C.
In vitro site-directed mutagenesis: Generation and properties of an infectious extracistronic mutant of bacteriophage Qβ. Gene 1:3-25 (1976).

26. Mol JN, **Flavell RA**., Borst P.
The presence of $(dA.dT)_{20-25}$ tracts in the DNA of primitive eukaryotes. Nucleic Acids Res. 3:2367-2377 (1976). PMC343091

27. Sabo DL, Domingo E, Bandle EF, **Flavell RA**, Weissmann C.
A guanosine to adenosine transition in the 3' terminal extracistronic region of bacteriophage Qβ RNA leading to loss of infectivity. J. Mol. Biol. 112:235-252 (1977).

28. Jeffreys AJ, **Flavell RA**.
A physical map of the DNA regions flanking the rabbit β-globin gene. Cell 12:429-439 (1977).

29. **Flavell RA**, VanDenBerg FM, Grosveld GC.
Isolation and characterization of the oligo(dA-dT) clusters and their flanking DNA segments in the rabbit genome. J. Mol. Biol. 115:715-735 (1977).

30. Jeffreys AJ, **Flavell RA**, VanDenBerg FM.
Appendix: Theoretical analysis of (dA.dT) cluster distributions in DNA. J. Mol. Biol. 115:735-741 (1977).

31. Jeffreys AJ, **Flavell RA**.
The rabbit β-globin gene contains a large insert in the coding sequence. Cell 12:1097-1108 (1977).

32. VanVoorthuizen WF, Dinsart C, **Flavell RA**, DeVijlder JJM, Vassart G.
Abnormal cellular localization of thyroglobulin mRNA associated with hereditary congenital goiter and thyroglobulin deficiency. Proc. Natl. Acad. Sci. USA 75:74-78 (1978). PMC411186

33. **Flavell RA**, Glover DM, Jeffreys AJ.
Discontinuous genes. TIBS 3:241-244 (1978).

34. Tabak HF, **Flavell RA**.
A method for the recovery of DNA from agarose gels. Nucleic Acids Res. 5:2321-2332 (1978). PMC342166

35. Zuidema D, VanDenBerg FM, **Flavell RA**.
The isolation of duplex DNA fragments containing (dG.dC) clusters by chromatography on poly(rC)-Sephadex. Nucleic Acids Res. 5:2471-2483 (1978). PMC342177

36. **Flavell RA**, Kooter JM, DeBoer E, Little PFR, Williamson R.
Analysis of the β–δ-globin gene loci in normal and Hb lepore DNA: Direct determination of gene linkage and intergene distance. Cell 15:25-41 (1978).

37. Waalwijk C, **Flavell RA**.
MspI, an isoschizomer of HpaII which cleaves both unmethylated and methylated HpaII sites. Nucleic Acids Res. 5:3231-3236 (1978). PMC342244

38. VanDenBerg J, VanOoyen A, Mantei N, Schambock A, Grosveld G, **Flavell RA**, Weissmann C.
Comparison of cloned rabbit and mouse β-globin genes showing strong evolutionary divergence of two homologous pairs of introns. Nature 275:37-44 (1978).

39. Waalwijk C, **Flavell RA**.
DNA methylation at a CCGG sequence in the large intron of the rabbit β-globin gene: Tissue-specific variations. Nucleic Acids Res. 5:4631-4641 (1978). PMC342778

40. Little PFR, Kooter JM, DeBoer E, Annison G, **Flavell RA**.
Recombinant deoxyribonucleic acid and the study of human genetic disease: The haemoglobinopathies. Biochem. Soc. Symp. 44:57-64 (1979).

41. Little PFR, **Flavell RA**, Kooter JM, Annison G, Williamson R.
Structure of the human fetal globin gene locus. Nature 278:227-231 (1979).

42. **Flavell RA**, Bernards R, Kooter JM, DeBoer E, Little PFR, Annison G, Williamson R.
The structure of the human β-globin gene in β-thalassaemia. Nucleic Acids Res. 6:2749-2760 (1979). PMC327890

43. Bernards R, Kooter JM, **Flavell RA**.
Physical mapping of the globin gene deletion in $(\delta\beta)^{\circ}$ thalassaemia. Gene 6:265-280 (1979).

44. Bernards R, Little PFR, Annison G, Williamson R, **Flavell RA**.
Structure of the human $^{G}\gamma$-$^{A}\gamma$-δ-β-globin gene locus. Proc. Natl. Acad. Sci. USA 76:4827-4831 (1979). PMC413030

45. Little PFR, Williamson R, Annison G, **Flavell RA**, DeBoer E, Bernini LF, Ottolenghi S, Saglio G, Mazza U.
Polymorphisms of human γ-globin genes in Mediterranean populations. Nature 282:316-318 (1979).

46. Williamson R, Little P, **Flavell R**.
The structure of the human γ-globin gene locus and its relation to the γ/β-globin gene locus. Ann NY Acad Sci 344:73-75 (1980).

47. Van Der Ploeg LHT, Konings A, Oort M, Roos D, Bernini L, **Flavell RA**.
γ–β-thalassaemia studies showing that deletion of the γ- and δ-genes influences β-globin gene expression in man. Nature 283:637-642 (1980).

48. Bernards R, **Flavell RA**.
Physical mapping of the globin gene deletion in hereditary persistence of fetal haemoglobin (HPFH). Nucleic Acids Res. 8:1521-1534 (1980).

49. VanDerPloeg LHT, **Flavell RA**.
DNA methylation in the human γδβ globin locus in erythroid and nonerythroid tissues. Cell 19:947-958 (1980).

50. **Flavell RA**.
The transcription of eukaryotic genes. Nature (News and Views) 285:356-357 (1980).

51. Little PFR, Whitelaw E, Annison G, Williamson R, Kooter JM, **Flavell RA**, Goossens M, Sergeant GR, Montgomery D.
The detection and use of hemoglobin mutants in the direct analysis of human globin genes. Blood 55(6):1060-1062 (1980).

52. Hoeijmakers-VanDommelen HAM, Grosveld GC, DeBoer E, **Flavell RA**, Varley JM, Jeffreys AJ.
Localization of repetitive and unique DNA sequences neighboring the rabbit β-globin gene. J. Mol. Biol. 140:531-547 (1980).

53. VanDerPloeg LHT, Groffen J, **Flavell RA**.
A novel type of secondary modification of two CCGG residues in the human γδβ-globin gene locus. Nucleic Acids Res. 8:4563-4574 (1980). PMC324371

54. **Flavell RA**.
The analysis of gene expression in higher organisms. Trends in Biochemical Sciences 5:313-315 (1980).

55. Grosveld GC, Koster A, **Flavell RA**.
A transcription map for the rabbit β-globin gene. Cell 23:573-584 (1981).

56. DeVijlder JJM, VanOmmen GJB, VanVoorthuizen WF, Koch CAM, Arnberg AC, Vassart G, Dinsart C, **Flavell RA**.
Nonfunctional thyroglobulin messenger RNA in goats with hereditary congenital goiter. J. Mol. Appl. Genet. 1:51-59 (1981).

57. **Flavell RA**.
Tissue-specific expression of α-amylase. (Review) Nature (News and Views) 290:541-542 (1981).

58. Grosveld FG, Dahl H-HM, DeBoer E, **Flavell RA**.
Isolation of β-globin-related genes from a human cosmid library. Gene 13:227-237 (1981).

59. Oort M, Heerspink W, Roos D, **Flavell RA**, Bernini LF.
Haemolytic disease of the newborn and chronic anaemia induced by γ –β-thalassaemia in a Dutch family. Br. J. Haematol. 48:251-262 (1981).

60. Grosveld GC, Shewmaker CK, Jat P, **Flavell RA**.
Localization of DNA sequences necessary for transcription of the rabbit β-globin gene *in vitro*. Cell 25:215-226 (1981).

61. Moschonas N, DeBoer E, Grosveld FG, Dahl HHM, Wright S, Shewmaker CK, **Flavell RA**.
Structure and expression of a cloned β° thalassaemic globin gene. Nucleic Acids Res. 9:4391-4401 (1981). PMC327442

62. Busslinger M, Moschonas N, **Flavell RA**.
β^{+} thalassaemia: Aberrant splicing results from a single point mutation in an intron. Cell 27:289-298 (1981).

63. Lund T, Grosveld FG, **Flavell RA**.
Isolation of transforming DNA by cosmid rescue. Proc. Natl. Acad. Sci. USA 79:520-524 (1982). PMC345775

64. Grosveld GC, DeBoer E, Shewmaker CK, **Flavell RA**.
DNA sequences necessary for transcription of the rabbit β-globin gene *in vivo*. Nature 295:120-126 (1982).

65. Driesel AJ, Schumacher AM, **Flavell RA**.
A Hind III restriction site polymorphism in the human collagen α1(I)-like gene on chromosome no. 7. Hum. Genet. 62:175-176 (1982).

66. Weiss EH, Cheah KSE, Grosveld FG, Dahl HHM, Solomon E, **Flavell RA**.
Isolation and characterization of a human collagen α1(I)-like gene from a cosmid library. Nucleic Acids Res. 10:1981-1994 (1982). PMC320584

67. **Flavell RA**.
The mystery of the mouse α-globin pseudogene. Nature 295:370 (1982).

68. Moschonas N, DeBoer E, **Flavell RA**.
The DNA sequence of the 5' flanking region of the human β-globin gene: Evolutionary conservation and polymorphic differences. Nucleic Acids Res. 10:2109-2120 (1982). PMC320592

69. Grosveld GC, Rosenthal A, **Flavell RA**.
Sequence requirements for the transcription of the rabbit β-globin gene *in vivo*: The -80 region. Nucleic Acids Res. 10:4951-4971 (1982). PMC320844

70. Mellor AL, Golden L, Weiss E, Bullman H, Hurst J, Simpson E, James RFL, Townsend ARM, Taylor PM, Schmidt W, Ferluga J, Leben L, Santamaria M, Atfield G, Festenstein H, **Flavell RA**.
Expression of murine H-2K^{b} histocompatibility antigen in cells transformed with cloned H-2 genes. Nature 298:529-534 (1982).

71. Grosveld FG, Lund T, Murray EJ, Mellor AL, Dahl HHM, **Flavell RA**.
The construction of cosmid libraries which can be used to transform eukaryotic cells. Nucleic Acids Res. 10:6715-6732 (1982). PMC326959

72. Weiss EH, Mellor A, Golden L, Fahrner K, Simpson E, Hurst J, **Flavell RA**.
The structure of a mutant H-2 gene suggests that the generation of polymorphism in H-2 genes may occur by gene conversion-like events. Nature 301:671-674 (1983).

73. Weiss E, Golden L, Zakut R, Mellor A, Fahrner K, Kvist S, **Flavell RA**.
The DNA sequence of the H-2K^{b} gene: Evidence for gene conversion as a mechanism for the generation of polymorphism in histocompatibility antigens. EMBO J. 2:453-462 (1983). PMC555154

74. Busslinger M, DeBoer E, Wright S, Grosveld FG, **Flavell RA**.
The sequence GGC^{m}CGG is resistant to MspI cleavage. Nucleic Acids Res. 11:3559-3569 (1983). PMC325986

75. Larhammar D, Hammerling U, Denaro M, Lund T, **Flavell RA**, Rask L, Peterson PA.
Structure of the murine immune response I-A$_{b}$ locus: Sequence of the I-A$_{b}$ gene and an adjacent β-chain second domain exon. Cell 34:179-188 (1983).

76. Busslinger M, Hurst J, **Flavell RA**.
DNA methylation and the regulation of globin gene expression. Cell 34:197-206 (1983).

77. Hyldig-Nielsen JJ, Schenning L, Hammerling U, Widmark E, Heldin E, Lind P, Servenius B, Lund T, **Flavell R**, Lee JS, Trowsdale J, Schreier PH, Zablitzky F, Larhammar D, Peterson PA, Rask L.
The complete nucleotide sequence of the IEα^d immune response gene. Nucleic Acids Res. 11:5055-5071 (1983).

78. Wright S, DeBoer E, Grosveld FG, **Flavell RA**.
Regulated expression of the human β-globin gene family in murine erythroleukaemia cells. Nature 305:333-336 (1983).

79. Kioussis D, Vanin E, DeLange T, **Flavell RA**, Grosveld FG.
β-Globin gene inactivation by DNA translocation in γβ-Thalassaemia. Nature 306:662-666 (1983).

80. Mellor AL, Weiss EH, Ramachandran K, **Flavell RA**.
A potential donor gene for the bm1 gene conversion event in the C57BL mouse. Nature 306:792-795 (1983).

81. Mellor AL, Golden L, Weiss E, Bullman H, Bud H, **Flavell RA**.
Molecular cloning and analysis of H-2 class I genes of H-2^b haplotype mice. H-2 Conference, Amsterdam. Transplant. Proc. 15:2013-2015 (1983).

82. Mellor AL, Weiss EH, Kress M, Jay G, **Flavell RA**.
A nonpolymorphic class I gene in the murine major histocompatibility complex. Cell 36:139-144 (1984).

83. Oudshoorn-Snoek M, Mellor AL, **Flavell RA**, Demant P.
A new determinant, Qa-m208, detected on T lymphocytes and transfected L cells by a K^b-specific monoclonal antibody. Immunogenetics 19:461-474 (1984).

84. Meruelo D, Kornreich R, Rossomando A, Pampeno C, Mellor AL, Weiss EH, Flavell R, Pellicer A.
Murine leukemia virus sequences are encoded in the murine major histocompatibility complex, H-2. Proc. Natl. Acad. Sci. USA 81:1804-1808 (1984). PMC345009

85. Allen H, Wraith D, Pala P, Askonas B, **Flavell RA**.
Domain interactions of H-2 class I antigens alter cytotoxic T-cell recognition sites. Nature 309:279-281 (1984).

86. Widera G, **Flavell RA**.
The nucleotide sequence of the murine I-Eβ^b immune response gene: Evidence for gene conversion events in class II genes of the major histocompatibility complex. EMBO J. 3:1221-1225 (1984). PMC557502

87. Rosenthal A, Wright S, Cedar H, Flavell R, Grosveld F.
Regulated expression of an introduced MHC H-$2K^{bm1}$ gene in murine embryonal carcinoma cells. Nature 310:415-418 (1984).

88. Wright S, Rosenthal A, Flavell R, Grosveld F.
DNA sequences required for regulated expression of β-globin genes in murine erythroleukaemia cells. Cell 38:265-273 (1984).

89. Weiss EH, Golden L, Fahrner K, Mellor AL, Devlin JJ, Bullman H, Tiddens H, Bud H, **Flavell RA**. Organization and evolution of the class I gene family in the major histocompatibility complex of the C57BL/10 mouse. Nature 310:650-655 (1984).

90. Devlin JJ, Lew AM, **Flavell RA**, Coligan JE. Secretion of a soluble class I molecule encoded by the Q10 gene of the C57BL/10 mouse. EMBO J. 4:369-374 (1985). PMC554195

91. Lindsay S, Monk M, Holliday R, Huschtscha L, Davies KE, Riggs AD, **Flavell RA**. Differences in methylation on the active and inactive human X chromosomes. Ann. Hum. Genet. 49:115-127 (1985).

92. Bluestone JA, Foo M, Allen H, **Flavell R**. Allospecific cytolytic T lymphocytes recognize conformational determinants on hybrid mouse transplantation antigens. J. Exp. Med. 162:268-281 (1985).

93. **Flavell RA**, Allen H, Huber B, Wake C, Widera G. Organization and expression of the MHC of the C57 black/10 mouse. (Review) Immunol. Rev. 84 29-50 (1985).

94. Devlin JJ, Widera G, Mellor AL, Fahrner K, Sherman D, Weiss EH, **Flavell RA**. Evolution and expression of the transplantation antigen gene family. Fed. Proc. 44:2736-2740 (1985).

95. Widera G, **Flavell RA**. The *I* region of the C57BL/10 mouse: Characterization and physical linkage to H-2K of an SBβ-like class II pseudogene, ψAβ3. Proc. Natl. Acad. Sci. USA 82:5500-5504 (1985). PMC391150

96. Maziarz R, Allen H, Strominger JL, **Flavell R**, Biro PA, Burakoff SJ. Recognition of interspecies hybrid class I histocompatibility antigens by antigen-specific cytolytic T lymphocytes. Proc. Natl. Acad. Sci. USA 82:6276-6280 (1985).

97. Pinkert CA, Widera G, Cowing C, Heber-Katz E, Palmiter RD, **Flavell RA**, Brinster RL. Tissue-specific, inducible and functional expression of the E_{α}^{d} MHC class II gene in transgenic mice. EMBO J. 4:2225-2230 (1985). PMC554489

98. Wake CT, **Flavell RA**. Multiple mechanisms regulate the expression of murine immune response genes. Cell 42:623-628 (1985).

99. Devlin JJ, Weiss EH, Paulson M, **Flavell RA**. Duplicated gene pairs and alleles of class I genes in the Qa2 region of the murine major histocompatibility complex: A comparison. EMBO J. 4:3203-3207 (1985). PMC554643

100. Geliebter J, Zeff RA, Schulze DH, Pease LR, Weiss EH, Mellor AL, **Flavell RA**, Nathenson SG. Interaction between K^{b} and Q4 gene sequences generates the K^{bm6} mutation. Mol. Cell. Biol. 6:645-652 (1986). PMC367556

101. Pontarotti PA, Mashimo H, Zeff RA, Fisher DA, Hood L, Mellor A, **Flavell RA**, Nathenson SG. Conservation and diversity in the class I genes of the major histocompatibility complex: Sequence analysis of a Tla^{b} Gene and comparison with a Tla^{c} Gene. Proc. Natl. Acad. Sci. USA 83:1782-1786 (1986). PMC323168

102. Meruelo D, Kornreich R, Rossomando A, Pampeno C, Boral A, Silver JL, Buxbaum J, Weiss EH, Devlin JJ, Mellor AL, **Flavell RA**, Pellicer A.
Lack of class I H-2 antigens in cells transformed by radiation leukemia virus is associated with methylation and rearrangement of H-2 DNA. Proc. Natl. Acad. Sci. USA 83:4504-4508 (1986).

103. **Flavell RA**, Allen H, Burkly LC, Sherman DH, Waneck GL, Widera G.
Molecular biology of the H-2 histocompatibility complex. Science 233:437-443 (1986).

104. Allen H, Fraser J, Flyer D, Calvin S, **Flavell R**.
β_2-Microglobulin is not required for cell surface expression of the murine class I histocompatibility antigen H-2D^b or of a truncated H-2D^b. Proc. Natl. Acad. Sci. USA 83:7447-7451 (1986).

105. Fernandez N, Festenstein H, Alonzo A, Biro PA, Labeta M, Carolan E, Houlihan J, Mellor A, **Flavell R**.
The expression of murine Qa region gene product(s) in L cell transformants. J. Immunogenet. 13:425-435 (1986).

106. Fraser JD, Allen H, **Flavell RA**, Strominger JL.
Cell-surface expression of H-2D^b requires N-linked glycans. Immunogenetics 26:31-35 (1987).

107. Fahrner K, Hogan BLM, **Flavell RA**.
Transcription of H-2 and Qa genes in embryonic and adult mice. EMBO J. 6:1265-1271 (1987). PMC553928

108. Sherman DH, Hochman PS, Dick R, Tizard R, Ramachandran KL, **Flavell RA**, Huber BT.
Molecular analysis of antigen recognition by insulin-specific T-cell hybridomas from B6 wild-type and bm12 mutant mice. Mol. Cell. Biol. 7:1865-1872 (1987). PMC365290

109. Waneck GL, Sherman DH, Calvin S, Allen H, **Flavell RA**.
Tissue-specific expression of cell-surface Qa-2 antigen from a transfected Q7^b gene of C57BL/10 mice. J. Exp. Med. 165:1358-1370 (1987).

110. Widera G, Burkly LC, Pinkert CA, Böttger EC, Cowing C, Palmiter RD, Brinster RL, **Flavell RA**.
Transgenic mice selectively lacking MHC class II (I-E) antigen expression on B cells: An *in vivo* approach to investigate Ia gene function. Cell 51:175-187 (1987).

111. Sherman DH, Waneck GL, **Flavell RA**.
Qa-2 antigen encoded by Q7^b is biochemically indistinguishable from Qa-2 expressed on the surface of C57BL/10 mouse spleen cells. J. Immunol. 140:138-142 (1988).

112. Fisher RA, Bertonis JM, Meier W, Johnson VA, Costopoulos DS, Liu T, Tizard R, Walker BD, Hirsch MS, Schooley RT, **Flavell RA**.
HIV infection is blocked *in vitro* by recombinant soluble CD4. Nature 331:76-78 (1988).

113. Waneck GL, Sherman DH, Kincade PW, Low MG, **Flavell RA**.
Molecular mapping of signals in Qa-2 antigen required for attachment of the phosphatidylinositol membrane anchor. Proc. Natl. Acad. Sci. USA 85:577-581 (1988). PMC279594

114. Lo D, Burkly LC, Widera G, Cowing C, **Flavell RA**, Palmiter RD, Brinster RL.
Diabetes and tolerance in transgenic mice expressing class II MHC molecules in pancreatic beta cells. Cell 53:159-168 (1988).

115. Marrack P, Lo D, Brinster R, Palmiter R, Burkly L, **Flavell RA**, Kappler J.
The effect of thymus environment on T cell development and tolerance. Cell 53:627-634 (1988).

116. Böttger EC, Blanar MA, **Flavell RA**.
Cycloheximide, an inhibitor of protein synthesis, prevents γ-interferon-induced expression of class II mRNA in a macrophage cell line. Immunogenetics 28:215-220 (1988).

117. Blanar MA, Boettger EC, **Flavell RA**.
Transcriptional activation of HLA-DRα by Interferon-γ requires a trans-acting protein. Proc. Natl. Acad. Sci. USA 85:4672-4676 (1988). PMC280497

118. Waneck GL, Stein ME, **Flavell RA**.
Conversion of a PI-anchored protein to an integral membrane protein by a single amino acid mutation. Science 241:697-699 (1988).

119. Low MG, Stiernberg J, Waneck GL, **Flavell RA**, Kincade PW.
Cell-specific heterogeneity in sensitivity of phosphatidylinositol-anchored membrane antigens to release by phospholipase C. J. Immunol. Methods 113:101-111 (1988).

120. Blanar MA, Burkly LC, **Flavell RA**.
NF-κB binds within a region required for B-cell-specific expression of the major histocompatibility complex class II gene, E_α^d. Mol. Cell. Biol. 9:844-846 (1989). PMC362665

121. Lo D, Burkly LC, **Flavell RA**, Palmiter RD, Brinster RL.
Tolerance to class II MHC in transgenic mice. (Review) Semin. Immunol. 1:147-153 (1989).

122. Burkly LC, Lo D, Cowing C, Palmiter RD, Brinster RL, **Flavell RA**.
Selective expression of class II E_α^d gene in transgenic mice. J. Immunol. 142:2081-2088 (1989).

123. Blanar MA, Baldwin AS, **Flavell RA**, Sharp PA.
A gamma-interferon-induced factor that binds the interferon response sequence of the MHC class I gene, H-$2K^b$. EMBO J. 8:1139-1144 (1989). PMC400925

124. Murphy DB, Lo D, RATH S, Brinster RL, **Flavell RA**, Slanetz A, Janeway CA Jr.
A novel MHC class II epitope expressed in thymic medulla but not cortex. Nature 338:765-768 (1989).

125. Statter MB, Fahrner KJ, Barksdale EM Jr, Parks DE, **Flavell RA**, Donahoe PK.
Correlation of fetal kidney and testis congenic graft survival with reduced major histocompatibility complex burden. Transplantation 47:651-660 (1989).

126. Williams DB, Barber BH, **Flavell RA**, Allen H.
Role of β_2-microglobulin in the intracellular transport and surface expression of murine class I histocompatibility molecules. J. Immunol. 142:2796-2806 (1989).

127. Lo D, Burkly LC, **Flavell RA**, Palmiter RD, Brinster RL.
Tolerance in transgenic mice expressing class II major histocompatibility complex on pancreatic acinar cells. J. Exp. Med. 170:87-104 (1989).

128. Verland S, Simonsen M, Gammeltoft S, Allen H, **Flavell RA**, Olsson L.
Specific molecular interaction between the insulin receptor and a D product of MHC class I. J. Immunol. 143:945-951 (1989).

129. Burkly LC, Lo D, Kanagawa O, Brinster RL, **Flavell RA**.
T-cell tolerance by clonal anergy in transgenic mice with nonlymphoid expression of MHC class II I-E. Nature 342:564-566 (1989).

130. Burkly LC, Lo D, Brinster RL, **Flavell RA**.
I-E transgenic mice: A model system to dissect the regulation and function of MHC class II genes *in vivo*. (Review) Immunol. Res. 9:34-46 (1990).

131. Burkly LC, Lo D, **Flavell RA**.
Tolerance in transgenic mice expressing major histocompatibility molecules extrathymically on pancreatic cells. Science 248:1364-1368 (1990).

132. Klein J, Benoist C, David DS, Demant P, Lindahl KF, Flaherty L, **Flavell RA**, Hammerling U, Hood LE, Hunt SW III, Jones PP, Kourilsky P, McDevitt HO, Meruelo D, Murphy DB, Nathenson SG, Sachs DH, Steinmetz M, Tonegawa S, Wakeland EK, Weiss EH.
Revised nomenclature of mouse H-2 genes. Immunogenetics 32:147-149 (1990).

133. Braun RE, Lo D, Pinkert CA, Widera G., **Flavell RA**, Palmiter RD, Brinster RL.
Infertility in male transgenic mice: Disruption of sperm development by HSV-tk expression in postmeiotic germ cells. Biol. Reprod. 43:684-693 (1990).

134. Fikrig E, Barthold SW, Kantor FS, **Flavell RA**.
Protection of mice against the Lyme disease agent by immunizing with recombinant OspA. Science 250:553-556 (1990).

135. Lo D, Burkly LC, **Flavell RA**, Palmiter RD, RL Brinster.
Antigen presentation in MHC class II transgenic mice: Stimulation versus tolerization. (Review) Immunol. Rev. 117:121-134 (1990).

136. Allen H, Hsuan J, Clark S, Maziarz R, Waterfield MD, **Flavell RA**, Haley J.
Expression of epidermal-growth-factor receptor in the K562 cell line by transfection. Biochem. J. 271:785-790 (1990). PMC1149632

137. Minasi L-A, **Flavell RA**.
Transfected cells and transgenic mice. (Review) Transplant. Proc. 23:1715-1716 (1991).

138. Su B, Waneck GL, **Flavell RA**, Bothwell ALM.
The glycosyl phosphatidylinositol anchor is critical for Ly-6A/E mediated T cell activation. J. Cell. Biol. 112:377-384 (1991).

139. Sears JE, Fikrig E, Nakagawa TY, DePonte K, Marcantonio N, Kantor FS, **Flavell RA**.
Molecular mapping of Osp-A mediated immunity against *Borrelia burgdorferi*, the agent of Lyme disease. J. Immunol. 147:1995-2000 (1991).

140. Berland R, Fikrig E, Rahn D, Hardin J, **Flavell RA**.
Molecular characterization of the humoral response to the 41-kilodalton flagellar antigen of *Borrelia burgdorferi*, the Lyme disease agent. Infect. Immun. 59:3531-3535 (1991). PMC258917

141. Nakagawa TY, VonGrafenstein H, Sears JE, Williams J, Janeway CA, **Flavell RA**
The use of the polymerase chain reaction to map CD4+ T cell epitopes. Eur. J. Immunol. 21:2851-2855 (1991).

142. Fikrig E, Barthold SW, Kantor FS, **Flavell RA**.
Protection of mice from Lyme borreliosis by oral vaccination with *Escherichia coli* expressing OspA. J. Infect. Dis. 164:1224-1227 (1991).

143. Chang C-H, Hammer J, Loh JE, Fodor WL, **Flavell RA**
The activation of major histocompatibility complex class I genes by interferon regulatory factor 1 (IRF-1). Immunogenetics 35:378-384 (1992).

144. Fikrig E, Barthold SW, Marcantonio N, Deponte K, Kantor FS, **Flavell RA**.
Roles of OspA, OspB, and flagellin in protective immunity to Lyme borreliosis in laboratory mice. Infect. Immun. 60:657-661 (1992). PMC257680

145. deSouza MS, Fikrig E, Smith AL, **Flavell RA**, Barthold SW.
Nonspecific proliferative responses of murine lymphocytes to *Borrelia burgdorferi* antigens. J. Infect. Dis. 165:471-478 (1992).

146. Fikrig E, Barthold SW, Kantor FS, **Flavell RA**.
Long-term protection of mice from Lyme disease by vaccination with OspA. Infect. Immun. 60:773-777 (1992). PMC257553

147. Geiger T, Gooding LR, **Flavell RA**.
T-cell responsiveness to an oncogenic peripheral protein and spontaneous autoimmunity in transgenic mice. Proc. Natl. Acad. Sci. USA 89:2985-2989 (1992). PMC48788

148. Fikrig E, Barthold SW, Persing DH, Sun X, Kantor FS, **Flavell RA**.
Borrelia burgdorferi strain 25015: Characterization of outer surface protein A and vaccination against infection. J. Immunol. 148:2256-2260 (1992).

149. Loh JE, Chang C-H, Fodor WL, **Flavell RA**.
Dissection of the interferonγ-MHC class II signal transduction pathway reveals that type I and type II interferon systems share common signaling component(s). EMBO J. 11:1351-1363 (1992). PMC556584

150. Fikrig E, Huguenel ED, Berland R, Rahn DW, Hardin JA, **Flavell RA**.
Serologic diagnosis of Lyme disease using recombinant outer surface protein A and B and flagellin. J. Infect. Dis. 165:1127-1132 (1992).

151. Fikrig E, Telford III SR, Barthold SW, Kantor FS, Spielman A, **Flavell RA**.
Elimination of *Borrelia burgdorferi* from vector ticks feeding on OspA-immunized mice. Proc. Natl. Acad. Sci. USA 89:5418-5421 (1992). PMC49303

152. Chang C-H, Fodor WL, **Flavell RA**.
Reactivation of a major histocompatibility complex class II gene in mouse plasmacytoma cells and mouse T cells. J. Exp. Med. 176:1465-1469 (1992).

153. Picarella DE, Kratz A, Li C-b, Ruddle NH, **Flavell RA**.
Insulitis in transgenic mice expressing TNF-β (Lymphotoxin) in the pancreas. Proc. Natl. Acad. Sci. USA 89:10036-10040 (1992). PMC50272

154. Magnarelli LA, Berland R, Fikrig E, Anderson JF, **Flavell RA**.
Comparison of whole cell and a recombinant immunodominant fragment of flagellar antigen (p41-G) of *Borrelia burgdorferi* in serologic tests for diagnosis of Lyme borreliosis. J. Clin. Microbiol. 30:3158-3162 (1992). PMC270607

155. Fikrig E, Berland R, Chen M, Williams S, Sigal LH, **Flavell RA**.
Serologic response to the *Borrelia burgdorferi* flagellin demonstrates an epitope common to a neuroblastoma cell line. Proc. Natl. Acad. Sci. USA 90:183-187 (1993). PMC45624

156. Comstock LE, Fikrig E, Shoberg RJ, **Flavell RA**, Thomas DD.
A monoclonal antibody to OspA inhibits association of *Borrelia burgdorferi* with human endothelial cells. Infect. Immun. 61:423-431 (1993). PMC302746

157. Fikrig E, Kantor FS, Barthold SW, **Flavell RA**.
Protective immunity in Lyme borreliosis. Parasitol. Today 9:129-131 (1993).

158. Fikrig E, Tao H, Kantor FS, Barthold SW, **Flavell RA**.
Evasion of protective immunity by *Borrelia burgdorferi* by truncation of outer surface protein B. Proc. Natl. Acad. Sci. USA 90:4092-4096 (1993). PMC46452

159. Minasi L-aE, Kamogawa Y, Carding S, Bottomly K, **Flavell RA**.
The selective ablation of interleukin 2-producing cells isolated from transgenic mice. J. Exp. Med. 177:1451-1459 (1993).

160. Picarella DE, Kratz A, Li C-b, Ruddle NH, **Flavell RA**.
Transgenic tumor necrosis factor (TNF)-α production in pancreatic islets leads to insulitis, not diabetes: Distinct patterns of inflammation in TNF-α and TNF-β transgenic mice. J. Immunol. 150:4136-4150 (1993).

161. Fikrig E, Barthold SW, **Flavell RA**.
OspA vaccination of mice with established *Borrelia burgdorferi* infection alters disease but not infection. Infect. Immun. 61:2553-2557 (1993). PMC280883

162. Bockenstedt LK, Fikrig E, Barthold SW, Kantor FS, **Flavell RA**.
Inability of truncated recombinant OspA proteins to elicit protective immunity to *Borrelia burgdorferi* in mice. J. Immunol. 151:900-906 (1993).

163. Telford SR III, Fikrig E, Barthold SW, Brunet, LR, Spielman A, **Flavell RA**.
Protection against antigenically variable *Borrelia burgdorferi* conferred by recombinant vaccines. J. Exp. Med. 178:755-758 (1993).

164. Margolese L, Waneck GL, Suzuki CK, Degen E, **Flavell RA**, Williams DB.
Identification of the region on the class I histocompatibility molecule that interacts with the molecular chaperone, p88 (Calnexin, IP90). J. Biol. Chem. 268:17959-17966 (1993).

165. Fikrig E, Magnarelli LA, Chen M, Anderson JF, **Flavell RA**.
Serologic analysis of dogs, horses, and cottontail rabbits for antibodies to an antigenic flagellar epitope of *Borrelia burgdorferi*. J. Clin. Microbiol. 31:2451-2455 (1993). PMC265777

166. Burkly LC, Degermann S, Longley J, Hagman J, Brinster RL, Lo D, **Flavell RA**.
Clonal deletion of Vβ5+ T cells by transgenic I-E restricted to thymic medullary epithelium. J. Immunol. 151:3954-3960 (1993).

167. Geiger T, Soldevila G, **Flavell RA**.
T cells are responsive to the simian virus 40 large tumor antigen transgenically expressed in pancreatic islets. J. Immunol. 151:7030-7037 (1993).

168. Homer R, Mamalaki C, Kioussis D, **Flavell RA**.
T cell unresponsiveness correlates with quantitative TCR levels in a transgenic model. Int. Immunol. 5:1495-1500 (1993).

169. Kamogawa Y, Minasi L-aE, Carding SR, Bottomly K, **Flavell RA**.
The relationship of IL-4- and IFNγ-producing T cells studied by lineage ablation of IL-4-producing cells. Cell 75:985-995 (1993).

170. Levin D, Constant S, Pasqualini T, **Flavell R**, Bottomly K.
Role of dendritic cells in the priming of CD4+ T lymphocytes to peptide antigen in vivo. J. Immunol. 151:6742-6750 (1993).

171. Lam TT, Nguyen T-PK, Montgomery RR, Kantor FS, Fikrig E, **Flavell RA**.
Outer surface proteins E and F of *Borrelia burgdorferi*, the agent of Lyme disease. Infect. Immun. 62:290-298 (1994). PMC186099

172. Elliott EA, Drake JR, Amigorena S, Elsemore J, Webster P, Mellman I, **Flavell RA**.
The invariant chain is required for intracellular transport and function of major histocompatibility complex class II molecules. J. Exp. Med. 179:681-694 (1994).

173. Roessner K, Fikrig E, Russell JQ, Cooper SM, **Flavell RA**, Budd RC.
Prominent T lymphocyte response to *Borrelia burgdorferi* from peripheral blood of unexposed donors. Eur. J. Immunol. 24:320-325 (1994).

174. Fikrig E, Bockenstedt LK, Barthold SW, Chen M, Tao H, Al-Salaam P, Telford SR, **Flavell RA**.
Sera from patients with chronic Lyme disease protect mice from Lyme borreliosis. J. Infect. Dis. 169:568-574 (1994).

175. Loh JE, Schindler C, Ziemiecki A, Harpur AG, Wilks AF, **Flavell RA**.
Mutant cell lines unresponsive to α/β, and γ interferon are defective in tyrosine phosphorylation of ISGF-3α components. Mol. Cell. Biol. 14:2170-2179 (1994). PMC358577

176. Lam TT, Nguyen T-PK, Fikrig E, **Flavell RA**.
A chromosomal *Borrelia burgdorferi* gene encodes a 22-kilodalton lipoprotein, P22, that is serologically recognized in Lyme disease. J. Clin. Microbiol. 32:876-883 (1994). PMC263156

177. Law YM, Yeung RSM, Mamalaki C, Kioussis D, Mak TW, **Flavell RA**.
Human CD4 restores normal T cell development and function in mice deficient in murine CD4. J. Exp. Med. 179:1233-1242 (1994).

178. Guerder S, Meyerhoff J, **Flavell RA**.
The role of the T cell costimulator B7-1 in autoimmunity, and the induction and maintenance of tolerance to peripheral antigen. Immunity 1:155-166 (1994).

179. Guerder S, Picarella DE, Linsley PS, **Flavell RA**.
Costimulator B7-1 confers antigen-presenting-cell function to parenchymal tissue and in conjunction with tumor necrosis factor α leads to autoimmunity in transgenic mice. Proc. Natl. Acad. Sci. USA 91:5138-5142 (1994). PMC43947

180. Nguyen T-PK, Lam TT, Barthold SW, Telford SR III, **Flavell RA**, Fikrig E.
Partial destruction of *Borrelia burgdorferi* within ticks that engorged on OspE- or OspF-immunized mice. Infect. Immun. 62:2079-2084 (1994). PMC186469

181. Xu J, Foy TM, Laman JD, Elliott EA, Dunn JJ, Waldschmidt TJ, Elsemore J, Noelle RJ, **Flavell RA**.
Mice deficient for the CD40 ligand. Immunity 1:423-431 (1994).

182. Rincón M, **Flavell RA**.
AP-1 transcriptional activity requires both T-cell receptor-mediated and costimulatory signals in primary T lymphocytes. EMBO J. 13:4370-4381 (1994). PMC395364

183. Chang C-H, Fontes JD, Peterlin M, **Flavell RA**.
Class II transactivator (CIITA) is sufficient for the inducible expression of major histocompatibility complex class II genes. J. Exp. Med. 180:1367-1374 (1994).

184. Kaufman-Paterson RK, Burkly LC, Kurahara DK, Dunlap A, **Flavell RA**, Finkel TH.
Thymic development in human CD4 transgenic mice: Positive selection occurs after commitment to the CD8 lineage. J. Immunol. 153:3491-3503 (1994).

185. DiCosmo BF, Geba GP, Picarella D, Elias JA, Rankin JA, Stripp BR, Whitsett JA, **Flavell RA**. Airway epithelial cell expression of interleukin-6 in transgenic mice: Uncoupling of airway inflammation and bronchial hyperreactivity. J. Clin. Invest. 94:2028-2035 (1994). PMC294635

186. Elliott, EA, **Flavell, RA**.
Transgenic mice expressing constitutive levels of IL-2 in islet β cells develop diabetes. Int. Immunol. 6:1629-1637 (1994).

187. Yeung RSM, Penninger JM, Kündig TM, Law Y, Yamamoto K, Kamikawaji N, Burkly L, Sasazuki T, **Flavell R**, Ohashi PS, Mak TW.
Human CD4 - Major Histocompatibility Complex class II (DQw6) transgenic mice in an endogenous CD4/CD8-deficient background: Reconstitution of phenotype and human-restricted function. J. Exp. Med. 180:1911-1920 (1994).

188. DiCosmo BF, Picarella D, **Flavell RA**.
Local production of human IL-6 promotes insulitis but retards the onset of insulin-dependent diabetes mellitus in non-obese diabetic mice. Int. Immunol. 6:1829-1837 (1994).

189. Huang L, Soldevila G, Leeker M, **Flavell RA**, Crispe IN.
The liver eliminates T cells undergoing antigen-triggered apoptosis in vivo. Immunity. 1:741-749 (1994).

190. Miller JFAP and **Flavell RA**.
T-cell tolerance and autoimmunity in transgenic models of central and peripheral tolerance. (Review) Curr. Opin. Immunol. 6:892-899 (1994).

191. Fikrig E, Telford SR III, Wallich R, Chen M, Lobet Y, Matuschka FR, Kimsey RB, Kantor FS, Barthold SW, Spielman A, **Flavell RA**.
Vaccination against Lyme disease caused by diverse *Borrelia burgdorferi*. J, Exp. Med. 181:215-221 (1995).

192. Chang C-H and **Flavell RA**.
Class II transactivator regulates the expression of multiple genes involved in antigen presentation. J. Exp. Med. 181:765-767 (1995).

193. Longley J, Ding T-g, Levin D, Lewis J, Edelson R, Tigelaar R, **Flavell RA**.
Regulation of transgenic class II major histocompatibility genes in murine Langerhans cells. J. Invest. Dermatol. 104:329-334 (1995).

194. Kuida K, Lippke JA, Ku G, Harding MW, Livingston DJ, Su MS-S, **Flavell RA**.
Altered cytokine export and apoptosis in mice deficient in interleukin-1β converting enzyme. Science 267:2000-2003 (1995).

195. Wong S, Guerder S, Visintin I, Reich E-P, Swenson KE, **Flavell RA**, Janeway CA Jr.
Expression of the co-stimulator molecule B7-1 in pancreatic beta cells accelerates diabetes in the NOD mouse. Diabetes 44:326-329 (1995).

196. Dunne M, Al-Ramadi BK, Barthold SW, **Flavell RA**, Fikrig E.
Oral vaccination with an attenuated *Salmonella typhimurium* strain expressing *Borrelia burgdorferi* OspA prevents murine Lyme borreliosis. Infect. Immun. 63:1611-1614 (1995). PMC173199

197. Antonia SJ, Geiger T, Miller, J, **Flavell RA**.
Mechanisms of immune tolerance induction through the thymic expression of a peripheral tissue-specific protein. Int. Immunol. 7:715-725 (1995).

198. Suk K, Das S, Sun W, Jwang B, Barthold SW, **Flavell RA**, Fikrig E.
Borrelia burgdorferi genes selectively expressed in the infected host. Proc. Natl. Acad. Sci. USA 92:4269-4273 (1995). PMC41925

199. Constant S, Sant'Angelo D, Pasqualini T, Taylor T, Levin D, **Flavell RA**, Bottomly K.
Peptide and protein antigens require distinct antigen-presenting cell subsets for the priming of CD4+ T cells. J. Immunol. 154:4915-4923 (1995).

200. Fikrig E, Tao H, Barthold SW, **Flavell RA**.
Selection of variant *Borrelia burgdorferi* isolates from mice immunized with outer surface protein A or B. Infect. Immun. 63:1658-1662 (1995). 173206

201. Guerder S, **Flavell RA**.
Costimulation in tolerance and autoimmunity. In: JFAP Miller (ed), (Review) Int. Rev. Immunol., 13:135-146 (1995).

202. Telford SR III, Kantor FS, Lobet Y, Barthold SW, Spielman A, **Flavell RA**, Fikrig E.
Efficacy of human Lyme disease vaccine formulations in a mouse model. J. Infect. Dis. 171:1368-1370 (1995).

203. Antonia SJ, Muñoz-Antonia T, Soldevila G, Miller J, **Flavell RA**.
B7-1 expression by a non-antigen presenting cell-derived tumor. Cancer Res. 55:2253-2256 (1995).

204. Buhlmann JE, Foy TM, Aruffo A, Crassi KM, Ledbetter JA, Green WR, Xu JC **Flavell RA**, Fast L, Noelle RJ, Durie FH.
In the absence of a CD40 signal, B cells are tolerogenic. Immunity 2:645-653 (1995).

205. Baker SM, Bronner CE, Zhang L, Plug AW, Robatzek M, Warren G, Elliott EA, Yu J, Ashley T, Arnheim N, **Flavell RA**, Liskay RM.
Male mice defective in the DNA mismatch repair gene PMS2 exhibit abnormal chromosome synapses in meiosis. Cell 82:309-319 (1995).

206. Chervonsky AV, Xu J, Barlow AK, Khery M, **Flavell RA**, Janeway CA Jr.
Direct, physical interaction involving CD40 ligand on T cells and CD40 on B cells is required to propagate MMTV. Immunity 3:139-146 (1995).

207. Cretella S, Gordon S, **Flavell RA**, Fikrig E.
Evaluation of a Lyme disease enzyme immunoassay using the 41-G fragment of flagellin. Eur. J. Clin. Microbiol. Infect. Dis. 14:609-613 (1995).

208. Magnarelli LA, Anderson JF, **Flavell RA**, Fikrig E.
Reactivity of white-footed mouse and raccoon sera to whole cell and recombinant antigens of *Borrelia burgdorferi*. J. Wildl. Dis. 31:339-344 (1995).

209. Guerder S, **Flavell RA**.
T cell activation. Two for T. (Review) Curr. Biol.. 5:866-868 (1995).

210. Chang C-H, Hong S-C, Hughes CCW, Janeway CA Jr, **Flavell RA**.
CIITA activates the expression of MHC class II genes in mouse T cells. Int. Immunol. 7:1515-1518 (1995).

211. Feng S, Das S, Lam T, **Flavell RA**, Fikrig E.
A 55-kilodalton antigen encoded by a gene on a *Borrelia burgdorferi* 49 kb plasmid is recognized by

antibodies in sera from patients with Lyme disease. Infect. Immun. 63:3459-3466 (1995). PMC173477

212. Jwang B, Dewing P, Fikrig E, **Flavell RA**.
The Hook protein of *Borrelia burgdorferi*, encoded by the *flgE* gene, is serologically recognized in Lyme disease. Clin. Diagn. Lab. Immunol. 2:609-615 (1995). PMC170207

213. Shachar I, Elliott EA, Chasnoff B, Grewal I, **Flavell RA**.
Reconstitution of invariant chain function in transgenic mice in vivo by individual p31 and p41 isoforms. Immunity 3:373-383 (1995).

214. Fikrig E, Tao H, Chen M, Barthold SW, **Flavell RA**.
Lyme borreliosis in transgenic mice tolerant to *Borrelia burgdorferi* OspA or B. J. Clin. Invest. 96:1706-1714 (1995). PMC185806

215. Foy TM, Page DM, Waldschmidt TJ, Schoneveld A, Laman JD, Masters SR, Tygrett L, Ledbetter JA, Aruffo A, Claassen E, Xu JC, **Flavell RA**, Ohen S, Hedrick SM, Noelle RJ.
An essential role for gp39, the ligand for CD40, in thymic selection. J. Exp. Med. 182:1377-1388 (1995).

216. Wu Y, Xu J, Shinde S, Grewal I, Henderson T, **Flavell RA**, Liu Y,
Rapid induction of a normal costimulator activity on B cells by CD40 ligand. Curr. Biol. 5:1303-1311 (1995).

217. Guerder S, Carding SR, **Flavell RA**.
B7 costimulation is necessary for the activation of the lytic function in cytotoxic T lymphocyte precursors. J. Immunol. 155:5167-5174 (1995).

218. Grewal IS, Xu J, **Flavell RA**.
Impairment of antigen-specific T-cell priming in mice lacking CD40 ligand. Nature 378:617-620 (1995).

219. Fikrig E, Liu B, Fu LL, Das S, Smallwood JI, **Flavell RA**, Persing DH, Schoen RT, Barthold SW, Malawista SE.
An *ospA* frame shift, identified from DNA in Lyme arthritis synovial fluid, results in an outer surface protein A that does not bind protective antibodies. J. Immunol. 155:5700-5704 (1995).

220. Soldevila G, Geiger T, **Flavell RA**.
Breaking immunologic ignorance to an antigenic peptide of simian virus 40 large T antigen. J. Immunol. 155:5590-5600 (1995).

221. von Herrath MG, Guerder S, Lewicki H, **Flavell RA**, Oldstone MBA.
Coexpression of B7-1 and viral ("self") transgenes in pancreatic β cells can break peripheral ignorance and lead to spontaneous autoimmune diabetes. Immunity 3:727-738 (1995).

222. Stout RD, Suttles J, Xu J, Grewal IS, **Flavell RA**.
Impaired T cell-mediated macrophage activation CD40 ligand-deficient mice. J. Immunol. 156:8-11 (1996).

223. Wong FS, Visintin I, Wen L, **Flavell RA**, Janeway CA Jr.
CD8 T cell clones from young nonobese diabetic (NOD) islets can transfer rapid onset of diabetes in NOD mice in the absence of CD4 cells. J. Exp. Med. 183:67-77 (1996).

224. Chang C-H, Guerder S, Hong S-C, van Ewijk W, **Flavell RA**.
Mice lacking the MHC class II transactivator (CIITA) show tissue-specific impairment of MHC class II expression. Immunity 3:167-178 (1996).

225. Magnarelli LA, Fikrig E, Padula SJ, Anderson JF, **Flavell RA**.
Use of recombinant antigens of *Borrelia burgdorferi* in serologic tests for diagnosis of Lyme borreliosis. J. Clin. Microbiol. 34:237-240 (1996). PMC228775

226. Sharma P, Joyce S, Chorney KA, Griffith JW, Bonneau RH, Wilson FD, Johnson CA, **Flavell RA**, Chorney MJ.
Thymus-leukemia antigen interacts with T-cells and self-peptides. J. Immunol. 156:987-996 (1996).

227. Xu J, Grewal IS, Geba GP, **Flavell RA**.
Impaired primary T cell responses in L-selectin-deficient mice. J. Exp. Med. 183:589-598 (1996).

228. Anderson JF, **Flavell RA**, Magnarelli LA, Barthold SW, Kantor FS, Wallich R, Persing DH, Mathiesen D, Fikrig E.
Novel *Borrelia burgdorferi* isolates from *Ixodes scapularis* and *Ixodes dentatus* ticks feeding on humans. J. Clin. Microbiol. 34:524-529 (1996). PMC228839

229. Elias JA, Geba GP, Tang W, Schilz R, Zheng T, DiCosmo B, **Flavell RA**.
Transgenic modeling of cytokines in the investigation of pulmonary disease. Chest 109:69S-73S (1996).

230. Rincón M, **Flavell RA**.
Regulation of AP-1 and NFAT transcription factors during thymic selection of T cells. Mol. Cell. Biol. 16:1074-1084 (1996). PMC231090

231. Soong L, Xu J, Grewal IS, Kima P, Sun J, Longley BJ Jr, Ruddle NH, McMahon-Pratt D, **Flavell RA**.
Disruption of CD40-CD40 ligand interactions results in an enhanced susceptibility to *Leishmania amazonensis* infection. Immunity 4:263-273 (1996).

232. David M, Wong L, **Flavell R**, Thompson SA, Wells A, Larner AC, Johnson GR.
STAT activation by epidermal growth factor (EGF) and amphiregulin. J. Biol. Chem. 271:9185-9188 (1996).

233. Borrow P, Tishon A, Lee S, Xu J, Grewal IS, Oldstone MBA, **Flavell RA**.
CD40L-deficient mice show deficits in antiviral immunity and have an impaired memory CD8+ CTL response. J. Exp. Med. 183:2129-2142 (1996).

234. Zhang J, Hagopian-Donaldson S, Serbedzija G, Elsemore J, Plehn-Dujowich D, McMahon AP, **Flavell RA**, Williams T.
Neural tube, skeletal and body wall defects in mice lacking transcription factor AP-2. Nature 381:238-241 (1996).

235. Fikrig E, Barthold SW, Chen M, Grewal IS, Craft J, **Flavell RA**.
Protective antibodies in murine Lyme disease arise independently of CD40 ligand. J. Immunol. 157:1-3 (1996).

236. Ma J, Xu J, Madaio MP, Peng Q, Zhang J, Grewal IS, **Flavell RA**, Craft J.
Autoimmune *lpr/lpr* mice deficient in CD40 ligand: Spontaneous Ig class switching with dichotomy of autoantibody responses. J. Immunol. 157:417-426 (1996).

237. Rankin JA, Picarella DE, Geba GP, Temann U-A, Prasad B, DiCosmo B, Tarallo A, Stripp B, Whitsett J, **Flavell RA**.
Phenotypic and physiologic characterization of transgenic mice expressing interleukin 4 in the lung: Lymphocytic and eosinophilic inflammation without airway hyperreactivity. Proc. Natl. Acad. Sci. USA 93:7821-7825 (1996). PMC38832

238. Rabb H, Ramirez G, Saba SR, Reynolds D, Xu J, **Flavell RA**, Antonia S.
Renal ischemic-reperfusion injury in L-selectin-deficient mice. Am. J. Physiol. 271:F408-F413 (1996).

239. Cariappa A, Flyer DC, Rollins CT, Roopenian DC, **Flavell RA**, Brown D, Waneck GL.
Glycosylphosphatidylinositol-anchored H-2D^b molecules are defective in antigen processing and presentation to cytotoxic T lymphocytes. Eur. J. Immunol. 26:2215-2224 (1996).

240. Eynon EE, Kuida K, **Flavell RA**.
Disruption of cytokine signaling in lymphoid development: Unique contributions of the common cytokine gamma chain and the JAK3 kinase. J. Interferon Cytokine Res. 16:677-684 (1996).

241. Grewal IS, **Flavell RA**.
A central role of CD40 ligand in the regulation of CD4+ T cell responses. Immunol. Today 17:410-414 (1996).

242. Grewal IS, Foellmer HG, Grewal KD, Xu J, Hardardottir F, Baron JL, Janeway CA, Jr, **Flavell RA**.
Requirement for CD40 ligand in costimulation induction, T cell activation and experimental allergic encephalomyelitis. Science 273:1864-1867 (1996).

243. Yang Y, Su Q, Grewal IS, Schilz R, **Flavell RA**, Wilson JM.
Transient subversion of CD40 ligand function diminishes immune responses to adenovirus vectors in mouse liver and lung tissues. J. Virol. 70:6370-6377 (1996). PMC190663

244. Grewal IS, **Flavell RA**.
The role of CD40 ligand in costimulation and T-cell activation. (Review) Immunol. Rev. 153:85-106 (1996).

245. Shinde S, Wu Y, Guo Y, Niu Q, Xu J, Grewal IS, **Flavell RA**, Liu Y.
CD40L is important for induction of, but not response to costimulatory activity: ICAM-1 as the second costimulatory molecule rapidly up-regulated by CD40L. J. Immunol. 157:2764-2768 (1996).

246. Shachar I, **Flavell RA**.
Requirement for invariant chain in B cell maturation and function. Science 274:106-108 (1996).

247. Rathmell JC, Townsend SE, Xu JC, **Flavell RA**, Goodnow CC.
Expansion or elimination of B cells in vivo: Dual roles of CD40- and Fas (CD95)-ligands modulated by the B cell antigen receptor. Cell 87:319-329 (1996).

248. Das S, Shraga D, Gannon C, Lam TT, Feng S, Brunet LR, Telford SR, Barthold SW, **Flavell RA**, Fikrig E.
Characterization of a 30-kDa *Borrelia burgdorferi* substrate-binding protein homologue. Res. Microbiol. 147:739-751 (1996).

249. Grewal IS, Grewal KD, Wong FS, Picarella DE, Janeway CA Jr, **Flavell RA**.
Local expression of transgene encoded TNFα in islets prevents autoimmune diabetes in nonobese diabetic (NOD) mice by preventing the development of auto-reactive islet-specific T cells. J. Exp. Med. 184:1963-1974 (1996).

250. Kuida K, Zheng TS, Na S, Kuan C-Y, Yang D, Karasuyama H, Rakic P, **Flavell RA**.
Decreased apoptosis in the brain and premature lethality in CPP32-deficient mice. Nature 384:368-372 (1996).

251. Coulombe M, Yang H, Guerder S, **Flavell RA**, Lafferty KJ, Gill RG.
Tissue immunogenicity: The role of MHC antigen and the lymphocyte costimulator B7-1. J. Immunol. 157:4790-4795 (1996).

252. Hafler DA, **Flavell RA**.
Autoimmunity: How to know thyself. Editorial Overview. (Review) Curr. Opin. Immunol. 8:805:807 (1996).

253. Lorico A, Rappa G, **Flavell RA**, Sartorelli AC.
Double knockout of the MRP gene leads to increased drug sensitivity in vitro. Cancer Res. 56:5351-5355 (1996).

254. Bockenstedt LK, Fikrig E, Barthold SW, **Flavell RA**, Kantor FS.
Identification of a *Borrelia burgdorferi* OspA T cell epitope that promotes anti-OspA IgG in mice. J. Immunol. 157:5496-5502 (1996).

255. Tang W, Geba GP, Zheng T, Ray P, Homer RJ, Kuhn C III, **Flavell RA**, Elias JA.
Targeted expression of IL-11 in the murine airway causes lymphocytic inflammation, bronchial remodeling and airways obstruction. J. Clin. Invest. 98:2845-2853 (1996). PMC507752

256. Whitmire JK, Slifka MK, Grewal IS, **Flavell RA**, Ahmed R.
CD40 ligand-deficient mice generate a normal primary cytotoxic T-lymphocyte response but a defective humoral response to a viral infection. J. Virol. 70:8375-8381 (1996). PMC190926

257. Aune TM, Penix LA, Rincón MR, **Flavell RA**.
Differential transcription directed by discrete gamma interferon promoter elements in naive and memory (effector) CD4 T cells and CD8 T cells. Mol. Cell. Biol. 17:199-208 (1997). PMC231744

258. Blazar BR, Taylor PA, Panoskaltsis-Mortari A, Buhlman J, Xu J, **Flavell RA**, Korngold R, Noelle R, Vallera DA.
Blockade of CD40 ligand-CD40 interaction impairs CD4+ T cell-mediated alloreactivity by inhibiting mature donor T cell expansion and function after bone marrow transplantation. J. Immunol. 158:29-39 (1997).

259. Grewal IS, **Flavell RA**.
New insights into insulin dependent diabetes mellitus from studies with transgenic mouse models. (Review) Lab. Invest. 76:3-10 (1997).

260. Gu Y, Kuida K, Tsutsui H, Ku G, Hsiao K, Fleming MA, Hayashi N, Higashino K, Okamura H, Nakanishi K, Kurimoto M, Tanimoto T, **Flavell RA**, Sato V, Harding MW, Livingston DJ, Su MS-S.
Activation of interferon-γ inducing factor mediated by interleukin-1β converting enzyme. Science 275:206-209 (1997).

261. Magnarelli LA, **Flavell RA**, Padula SJ, Anderson JF, Fikrig E.
Serologic diagnosis of canine and equine borreliosis: Use of recombinant antigens in enzyme-linked immunosorbent assays. J. Clin. Microbiol. 35:169-173 (1997). PMC229532

262. Grewal IS, **Flavell RA**.
The CD40 ligand: At the center of the immune universe? (Review) Immunol. Res. 16:59-70 (1997).

263. Khachatryan A, Guerder S, Palluault F, Cote G, Solimena M, Valentijn K, Millet I, **Flavell RA**, Vignery A.
Targeted expression of the neuropeptide calcitonin gene-related peptide to β cells prevents diabetes in NOD mice. J. Immunol. 158:1409-1416 (1997).

264. Nakamura T, Kamogawa Y, Bottomly K, **Flavell RA**.
Polarization of IL-4 and IFN-γ producing CD4+ T cells following activation of naive CD4+ T cells. J. Immunol. 158:1085-1094 (1997).

265. Rincón M, Anguita J, Nakamura T, Fikrig E, **Flavell RA**.
Interleukin (IL)-6 directs the differentiation of IL-4-producing CD4+ T cells. J. Exp. Med. 185:461-469 (1997). PMC2196041

266. Fantuzzi G, Ku G, Harding MW, Livingston DJ, Kuida K, Sipe JD, **Flavell RA**, Dinarello CA.
Response to local inflammation of IL-1β-converting enzyme-deficient mice. J. Immunol. 158:1818-1824 (1997).

267. Rincón M, Dérijard B, Chow C-W, Davis RJ, **Flavell RA**.
Reprogramming the signaling requirement for AP-1 (activator protein-1) activation during differentiation of precursor CD4+ T cells into effector Th1 and Th2 cells. Genes Funct. 1:51-68 (1997).

268. Nakamura T, Lee RK, Nam SY, Al-Ramadi BK, Koni PA, Bottomly K, Podack ER, **Flavell RA**.
Reciprocal regulation of CD30 expression on CD4+ T cells by IL-4 and IFN-γ. J. Immunol. 158:2090-2098 (1997).

269. Peng SL, McNiff JM, Madaio MP, Ja J, Owen MJ, **Flavell RA**, Hayday AC, Craft J.
αβ T cell regulation and CD40 ligand dependence in murine systemic autoimmunity. J. Immunol. 158:2464-2470 (1997).

270. Chen XH, Patel BKR, Wang L-M, Frankel M, Ellmore N, **Flavell RA**, LaRochelle WJ, Pierce JH.
Jak1 expression is required for mediating interleukin-4-induced tyrosine phosphorylation of insulin receptor substrate and Stat6 signaling molecules. J. Biol. Chem. 272:6556-6560 (1997).

271. Nakamura T, Lee RK, Nam SY, Podack ER, Bottomly K, **Flavell RA**.
Roles of IL-4 and IFN-γ in stabilizing the T helper cell type 1 and 2 phenotype. J. Immunol. 158:2648-2653 (1997).

272. Rincón M, **Flavell RA**.
Transcription mediated by NFAT is highly inducible in effector CD4+ T helper2 (Th2) cells but not in Th1 cells. Mol. Cell. Biol. 17:1522-1534 (1997). PMC231878

273. Yang D, Tournier C, Wysk M, Lu H-T, Xu J, Davis RJ, **Flavell RA**.
Targeted disruption of the MKK4 gene causes embryonic death, inhibition of c-Jun NH_2-terminal kinase activation, and defects in AP-1 transcriptional activity. Proc. Natl. Acad. Sci. USA 94:3004-3009 (1997). PMC20312

274. Kuan C-Y, Elliott EA, **Flavell RA**, Rakic P.
Restrictive clonal allocation in the chimeric mouse brain. Proc. Natl. Acad. Sci. USA 94:3374-3379 (1997). PMC20377

275. Chervonsky AV, Wang Y, Wong FS, Visintin I, **Flavell RA**, Janeway CA Jr, Matis L.
The role of fas in autoimmune diabetes. Cell 89:17-24 (1997).

276. Fikrig E, Barthold SW, Chen M, Tao H, Ali-Salaam P, Bockenstedt LK, **Flavell RA**.
Lyme borreliosis in transgenic mice tolerant to OspA from *Borrelia burgdorferi* 25015. J. Infect. Dis. 175:1000-1003 (1997).

277. Koni PA, Sacca R, Lawton P, Browning JL, Ruddle NH, **Flavell RA**.
Distinct roles in lymphoid organogenesis for lymphotoxins α and β revealed in lymphotoxin β-deficient mice. Immunity 6:491-500 (1997).

278. Temann U-A, Prasad B, Gallup MW, Basbaum C, Ho SB, **Flavell RA**, Rankin JA.
A novel role for murine IL-4 in vivo: Induction of MUC5AC gene expression and mucin hypersecretion. Am. J. Respir. Cell Mol. Biol. 16:471-478 (1997).

279. Fikrig E, Barthold SW, Sun W, Feng W, Telford SR III, **Flavell RA**.
Borrelia burgdorferi p35 and p37 proteins, expressed *in vivo*, elicit protective immunity. Immunity 6:531-539 (1997).

280. Zheng W-p, **Flavell RA**.
The transcription factor GATA-3 is necessary and sufficient for Th2 cytokine gene expression in CD4 T cells. Cell 89:587-596 (1997).

281. Huang C, Ma W-Y, Dawson MI, Rincón M, **Flavell RA**, Dong Z.
Blocking activator protein-1 activity, but not activating retinoic acid response element, is required for the antitumor promotion effect of retinoic acid. Proc. Natl. Acad. Sci. USA 94:5826-5830 (1997). PMC20865

282. Soong L, Chang C-H, Sun J, Longley BJ Jr, Ruddle NH, **Flavell RA**, McMahon-Pratt D.
Role of CD4+ T cells in pathogenesis associated with *Leishmania amazonensis* infection. J. Immunol. 158:5374-5383 (1997).

283. Aune TM, **Flavell RA**.
Differential expression of transcription directed by a discrete NF-AT binding element from the IL-4 promoter in naive and effector CD4 T cells. J. Immunol. 159:36-43 (1997).

284. Grewal IS, Rutledge BJ, Fiorillo JA, Gu L, Gladue RP, **Flavell RA**, Rollins BJ.
Transgenic monocyte chemoattractant protein-1 (MCP-1) in pancreatic islets produces monocyte-rich insulitis without diabetes. J. Immunol. 159:401-408 (1997).

285. Grewal IS, Borrow P, Pamer EG, Oldstone MBA, **Flavell RA**.
The CD40-CD154 system in anti-infective host defense. (Review) Curr. Opin. Immunol. 9:491-497 (1997).

286. Nogués N, Del Río JA, Pérez-Riba M, Soriano E, **Flavell RA**, Boronat A.
Placenta-specific expression of the rat growth hormone-releasing hormone gene promoter in transgenic mice. Endocrinology 138:3222-3227 (1997).

287. Chin YE, Kitagawa M, Kuida K, **Flavell RA**, Fu X-Y.
Activation of the STAT signaling pathway can cause expression of caspase 1 and apoptosis. Mol. Cell. Biol. 17:5328-5337 (1997). PMC232383

288. McSorley SJ, Soldera S, Malherbe L, Carnaud C, Locksley RM, **Flavell RA**, Glaichenhaus N.
Immunological tolerance to a pancreatic antigen as a result of local expression of TNF-α by islet β cells. Immunity 7:401-409 (1997).

289. Yang DD, Kuan C-Y, Whitmarsh AJ, Rincón M, Zheng TS, Davis RJ, Rakic P, **Flavell RA**.
Absence of excitotoxicity-induced apoptosis in the hippocampus of mice lacking the Jnk3 gene.
Nature 389:865-870 (1997).

290. Gu L, Rutledge B, Fiorillo J, Ernst C, Grewal I, **Flavell R**, Gladue R, Rollins BJ.
In vivo properties of monocyte chemoattractant protein-1. J. Leukoc. Biol. 62:577-580 (1997).

291. Rincón M, **Flavell RA**.
T cell subsets: Transcriptional control in the Th1/Th2 decision. (Review) Curr. Biol. 7:R729-R732 (1997).

292. Ray P, Tang W, Wang P, Homer R, Kuhn C III, **Flavell RA**, Elias JA.
Regulated overexpression of interleukin-11 in the lung: Use to dissociate development-dependent and -independent phenotypes. J. Clin. Invest. 100:2501-2511 (1997). PMC508450

293. Fikrig E, Barthold SW, Chen M, Chang C-H, **Flavell RA**.
Protective antibodies develop, and murine Lyme arthritis regresses, in the absence of MHC class II and CD4+ T cells. J. Immunol. 159:5682-5686 (1997).

294. Rappa G, Lorico A, **Flavell RA**, Sartorelli AC.
Evidence that the multidrug resistance protein (MRP) functions as a co-transporter of glutathione and natural product toxins. Cancer Res. 57:5232-5237 (1997).

295. Lorico A, Rappa G, Finch RA, Yang D, **Flavell RA**, Sartorelli AC.
Disruption of the murine *MRP* (multidrug resistance protein) gene leads to increased sensitivity to etoposide (VP-16) and increased levels of glutathione. Cancer Res. 57:5238-5242 (1997).

296. Medema JP, Toes REM, Scaffidi C, Zheng TS, **Flavell RA**, Melief CJM, Peter ME, Offringa R, Krammer PH.
Cleavage of FLICE (caspase-8) by granzyme B during cytotoxic T lymphocyte-induced apoptosis.
Eur. J. Immunol. 27:3492-3498 (1997).

297. Grewal IS, **Flavell RA**.
CD40 and CD154 in cell-mediated immunity. (Review) Annu. Rev. Immunol. 16:111-135 (1998).

298. Cosyns M, Tsirkin S, Jones M, **Flavell RA**, Kikutani H, Hayward AR.
Requirement for CD40-CD40 ligand interaction for elimination of *Cryptosporidium parvum* from mice. Infect. Immun. 66:603-607 (1998).

299. Auphan N, Simon AK, Asnagli H, Phillips RJ, Rincón M, Ghosh S, **Flavell RA**, Schmitt-Verhulst A-M.
Consequences of intrathymic TCR engagement by partial agonist on selection events and peripheral T cell activation program. J. Immunol. 160:4810-4821 (1998).

300. Rincón M, Enslen H, Raingeaud J, Recht M, Zapton T, Su MS-S, Penix LA, Davis RJ, **Flavell RA**.
Interferon-γ expression by Th1 effector T cells mediated by the p38 MAP kinase signaling pathway.
EMBO J. 17:2817-2829 (1998). PMC1170622

301. Swat W, Fujikawa K, Ganiatsas S, Yang D, Xavier RJ, Harris NL, Davidson L, Ferrini R, Davis RJ, Labow MA, **Flavell RA**, Zon LI, Alt FW.
SEK1/MKK4 is required for maintenance of a normal peripheral lymphoid compartment but not for lymphocyte development. Immunity 8:625-634 (1998).

302. Grewal IS, Guerder S, **Flavell RA**.
Lessons from genetically manipulated animal models: Approaches to study activation of self-reactive T cells in autoimmune diseases. (Review) The Immunologist 6:106-111 (1998).

303. Bennett SRM, Carbone FR, Karamalis F, **Flavell RA**, Miller JFAP, Heath WR.
Help for cytotoxic-T-cell responses is mediated by CD40 signaling. Nature 393:478-480 (1998).

304. Koni PA, **Flavell RA**.
A role for tumor necrosis factor receptor type 1 in gut-associated lymphoid tissue development. Genetic evidence of synergism with lymphotoxin β. J. Exp. Med. 187:1977-1983 (1998). PMC2212356

305. Wong FS, Visintin I, Wen L, Granata J, **Flavell RA**, Janeway CA Jr.
The role of lymphocyte subsets in accelerated diabetes in nonobese diabetic-rat insulin promoter-B7-1 (NOD-RIP-B7-1) mice. J. Exp. Med. 187:1985-1993 (1998).

306. Kuida K, Haydar TF, Kuan C-Y, Gu Y, Taya C, Karasuyama H, Su MS-S, Rakic P, **Flavell RA**.
Reduced apoptosis and cytochrome c-mediated caspase activation in mice lacking caspase-9. Cell 94:325-337 (1998).

307. Geng L, Solimena M, **Flavell RA**, Sherwin RS, Hayday AC.
Widespread expression of an autoantigen-GAD65 transgene does not tolerize non-obese diabetic mice and can exacerbate disease. Proc. Natl. Acad. Sci. USA 95:10055-10060 (1998). PMC21460

308. Borrow P, Tough DF, Eto D, Tishon A, Grewal IS, Sprent J, **Flavell RA**, Oldstone MBA.
CD40 ligand-mediated interactions are involved in the generation of memory CD8+ cytotoxic T lymphocytes (CTL) but are not required for the maintenance of CTL memory following virus infection. J. Virol. 72:7440-7449 (1998). PMC109974

309. Guerder S, Eynon EE, **Flavell RA**.
Autoimmunity without diabetes in transgenic mice expressing β-cell specific CD86, but not CD80: Parameters that trigger progression to diabetes. J. Immunol. 161:2128-2140 (1998).

310. Wen L, Wong FS, Burkly L, Altieri M, Mamalaki C, Kioussis D, **Flavell RA**, Sherwin RS.
Induction of insulitis by glutamic acid decarboxylase peptide-specific and HLA-DQ8-restricted CD4+ T cells from human DQ transgenic mice. J. Clin. Invest. 102:947-957 (1998). PMC508960

311. **Flavell RA**, Rincón M, Zheng W-p, Li B, Enslen H, Raingeaud J, Davis RJ.
The regulation of CD4 T cell differentiation. Proceedings of the Vth International Workshop on Cytokines, Ares-Serono Foundation. Eur. Cytokine Netw. 9: 26-32 (1998).

312. Magnarelli LA, Ijdo JW, Anderson JF, Padula SJ, **Flavell RA**, Fikrig E.
Human exposure to a granulocytic ehrlichia and other tick-borne agents in Connecticut. J. Clin. Microbiol. 36:2823-2827 (1998). PMC105071

313. Antonia SJ, Extermann M, **Flavell RA**.
Immunologic nonresponsiveness to tumors. (Review) Crit. Rev. Oncog. 9:35-41 (1998).

314. Fikrig E, Feng W, Aversa J, Schoen RT, **Flavell RA**.
Differential expression of *Borrelia burgdorferi* genes during *erythema migrans* and Lyme arthritis. J. Infect. Dis. 178:1198-1201 (1998).

315. Temann U-A, Geba GP, Rankin JA, **Flavell RA**.
Expression of interleukin-9 in the lungs of transgenic mice causes airway inflammation, mast cell

hyperplasia, and bronchial hyperresponsiveness. J. Exp. Med. 188:1307-1320 (1998). PMC2212487

316. Yang D, Conze D, Whitmarsh AJ, Barrett T, Davis RJ, Rincón M, **Flavell RA**. Differentiation of CD4+ T cells to Th1 cells requires MAP kinase JNK2. Immunity 9:575-585 (1998).

317. Anguita J, Rincón M, Samanta S, Barthold SW, **Flavell RA**, Fikrig E. *Borrelia burgdorferi*-infected, interleukin-6-deficient mice have decreased Th2 responses and increased Lyme arthritis. J. Infect. Dis. 178:1512-1515 (1998).

318. Zheng TS, Schlosser SF, Dao T, Hingorani R, Crispe IN, Boyer JL, **Flavell RA**. Caspase-3 controls both cytoplasmic and nuclear events associated with Fas-mediated apoptosis *in vivo*. Proc. Natl. Acad. Sci. USA 95:13618-13623 (1998). PMC24868

319. Rincón, M, Yang D, Whitmarsh A, Weiss L, Dérijard B, Jayaraj P, Davis RJ, **Flavell RA**. The JNK pathway regulates the *in vivo* deletion of immature CD4+CD8+ thymocytes. J. Exp. Med. 188:1817-1830 (1998). PMC2212412

320. Green EA, Eynon EE, **Flavell RA**. Local expression of TNFα in neonatal NOD mice promotes diabetes by enhancing presentation of islet antigens. Immunity 9:733-743 (1998).

321. Boyton RJ, Lohmann T, Londei M, Kalbacher H, Halder T, Frater AJ, Douek DC, Leslie D, **Flavell RA**, Altmann DM. Glutamic acid decarboxylase T lymphocyte responses associated with susceptibility or resistance to Type I diabetes: analysis in disease discordant human twins, non obese diabetic mice and HLA-DQ transgenic mice. Int. Immunol. 10:1765-1776 (1998).

322. Zhang F, Wang DZ, Boothby M, Penix LA, **Flavell RA**, Aune TM. Regulation of the activity of IFN-γ promoter elements during Th cell differentiation. J. Immunol. 161:6105-6112 (1998).

323. Hilbi H, Moss JE, Hersh D, Chen Y, Arondel J, Banerjee S, **Flavell RA**, Yuan J, Sansonetti PJ, Zychlinsky A. Shigella induced apoptosis is dependent on caspase-1 which binds to IpaB. J. Biol. Chem. 273:32895-32900 (1998).

324. Dong C, Yang DD, Wysk M, Whitmarsh AJ, Davis RJ, **Flavell RA** Defective T cell differentiation in the absence of *Jnk1*. Science 282:2092-2095 (1998).

325. Akin E, McHugh GL, **Flavell RA**, Fikrig E, Steere AC. The immunoglobulin (IgG) antibody response to OspA and OspB correlates with severe and prolonged Lyme arthritis and the IgG response to P35 correlates with mild and brief arthritis. Infect. Immun. 67:173-181 (1999). PMC96293

326. Fikrig E, Chen M, Barthold SW, Anguita J, Feng W, Telford SR III, **Flavell RA**. *Borrelia burgdorferi erpT* expression in the anthropod vector and murine host. Mol. Microbiol. 131:281-290 (1999).

327. Rincón M., **Flavell RA**. Reprogramming the transcription during the differentiation of precursor CD4+ T cells into effector Th1 and Th2 cells. Microbes Infect. 1:43-50 (1999).

328. Li B, Tournier C, Davis RJ, **Flavell RA**
Regulation of T helper cell differentiation by the transcription factor JunB. EMBO J. 18:420-432 (1999). PMC1171136

329. Eynon EE, Livak F, Kuida K, Schatz DG, **Flavell RA**
Distinct effects of Jak3 signaling on α/β and γ/δ thymocyte development. J. Immunol. 162:1448-1459 (1999).

330. Koni PA, **Flavell RA**.
Lymph node germinal centers form in the absence of follicular dendritic cells. J. Exp. Med. 189: 855-864 (1999). PMC2192950

331. Gourley T, Hill S, Lukacs NW, Kunkel S, **Flavell RA**, Chang C-H.
A novel role of the major histocompatibility complex class II transactivator in the repression of IL-4 production. Immunity 10:377-386 (1999).

332. Wysk M, Yang D, Lu H-t, **Flavell RA**, Davis RJ.
Requirement of mitogen-activated protein kinase kinase 3 (MKK3) for tumor necrosis factor–induced cytokine expression. Proc. Natl. Acad. Sci., USA 96:3763-3768 (1999). PMC22368

333. Lu H-T, Yang DD, Wysk M, Gatti E, Mellman I, Davis RJ, **Flavell RA**.
Defective IL-12 production in mitogen-activated protein (MAP) kinase kinase 3 (*Mkk3*)-deficient mice. EMBO J 18:1845-1857 (1999). PMC1171270

334. Green EA, **Flavell RA**
Commentary: TRANCE-RANK, a new signal pathway involved in lymphocyte development and T cell activation. J. Exp. Med. 189:1017-1020 (1999). PMC2193008

335. Buhlmann JE, Gonzalez M, Panoskaltsis-Mortari A, Blazar BR, Greiner DL, Rossini AA, **Flavell RA**, Noelle RJ.
Cutting Edge: Sustained expansion of CD8+ T cells requires CD154 expression by helper T cells in acute graft versus host disease (aGVMD). J. Immunol. 162:4373-4376 (1999).

336. Mora C, Wong FS, Chang C-H, **Flavell RA**.
Pancreatic infiltration but not diabetes occurs in the relative absence of MHC class II restricted CD4T cells: Studies using NOD/CIITA deficient mice. J. Immunol. 62: 4576–4588 (1999).

337. Kuan C-Y, Yang DD, Samanta Roy DR, Davis RJ, Rakic P, **Flavell RA**.
The Jnk1 and Jnk2 protein kinases are required for regional-specific apoptosis during early brain development. Neuron 22:667-676 (1999).

338. Geiger TL, Leitenberg D, **Flavell RA**.
The T cell receptor ζ chain ITAMs are sufficient for the activation and differentiation of primary T lymphocytes. J. Immunol. 162:5931-5939 (1999).

339. Eynon EE, **Flavell RA**.
Walking through the forest of transgenic models of human disease. Introduction. Immunol. Rev. 169:5-10 (1999).

340. Green EA, Flavell **RA**.
Tumor necrosis factor-α and the progression of diabetes in NOD mice. Immunol. Rev. 169:11-22 (1999).

341. Berger DP, Naniche D, Crowley MT, Koni P, **Flavell RA**, Oldstone MBA.
Lymphotoxin beta deficient mice show defective antiviral immunity. Virology 260:136-147 (1999).

342. Zheng TS, **Flavell RA**.
Apoptosis: All's well that ends dead. (News and Views) Nature 400:410-411 (1999).

343. **Flavell RA**.
The molecular basis of T cell differentiation. Immunol. Res. 19:159-168 (1999).

344. Young MR, Li J-J, Rincón M, **Flavell RA**, Sathyanarayana BK, Hunziker R, Colburn N.
Transgenic mice demonstrate AP-1 transactivation is required for tumor promotion. Proc. Natl. Acad. Sci. USA 96:9827-9832 (1999). PMC22295

345. Ballica R, Valentijn K, Khachatryan A, Guerder S, Kapadia S, Gundberg C, Gilligan J, **Flavell RA**, Vignery A.
Targeted expression of calcitonin gene-related peptide to osteoblasts increases bone density in mice. J. Bone Miner.l Res. 14:1067-1074 (1999).

346. Haydar TF, Kuan C-Y, **Flavell RA**, Rakic P.
The role of cell death in regulating the size and shape of the mammalian forebrain. Cereb.l Cortex 9:621-626 (1999).

347. Furlan R, Martino G, Galbiati F, Poliani PL, Smiroldo S, Bergami A, Desina G, Comi G, **Flavell RA**, Su MS, Adorini L.
Caspase-1 regulates the inflammatory process leading to autoimmune demyelination. J. Immunol. 163:2403-2409 (1999).

348. Whitmire JK, **Flavell RA**, Grewal IS, Larsen CP, Pearson TC, Ahmed R.
CD40-CD40 ligand costimulation is required for generating antiviral CD4 T cell responses but is dispensable for CD8 T cell responses. J. Immunol. 163:3194-3201 (1999).

349. Cremona O, DiPaolo G, Wenk MR, Lüthi A, Kim WT, Takei K, Daniell L, Nemoto Y, Shears SB, **Flavell RA**, McCormick DA, DeCamilli P.
Essential role of phosphoinositide metabolism in synaptic vesicle recycling. Cell 99:179-188 (1999).

350. Lutgens E, Gorelik L, Daemen MJAP, de Muinch ED, Grewal IS, Koteliansky VE, **Flavell RA**.
Requirement of CD154 in the progression of atherosclerosis. Nat. Med. 5:1313-1316 (1999).

351. Zheng TS, Hunot S, Kuida K, **Flavell RA**.
Caspase knockouts: Matters of life and death. Cell Death Differ. 6:1043-1053 (1999).

352. Auphan N, Ghosh S, **Flavell RA**, Schmitt-Verhulst A-M.
Differential requirements for NF-κB and AP-1 *trans*-activation in response to minimal TCR engagement by a partial agonist in naïve CD8 T cells. J. Immunol. 163:5219-5227 (1999).

353. **Flavell RA**, Hafler, DA.
Autoimmunity. What is the turning point? Editorial Overview. Curr. Opin. Immunol. 11:635-637 (1999).

354. Green EA, **Flavell RA**.
The initiation of autoimmune diabetes. Curr. Opin. Immunol. 11:663-669 (1999).

355. Tan J, Town T, Paris D, Mori T, Suo Z, Crawford F, Mattson MP, **Flavell RA**, Mullan M.
Microglial activation resulting from CD40-CD40L interaction β-amyloid stimulation. Science 286:2352-2355 (1999).

356. Na S, Li B, Grewal IS, Enslen H, Davis RJ, Hanke JH, **Flavell RA**.
Expression of activated CDC42 induces T cell apoptosis in thymus and peripheral lymph organs via different pathways. Oncogene 18:7966-7974 (1999).

357. D'Mello SR, Kuan C, **Flavell RA**, Rakic P.
Caspase-3 is required for apoptosis-associated DNA fragmentation but not for cell death in neurons deprived of potassium. J. Neurosci. Res. 59:24-31 (2000).

358. Wen L, Wong FS, Tang J, Chen N-Y, Altieri M, David C, **Flavell RA**, Sherwin R.
In vivo evidence for the contribution of HLA-DQ molecules to the development of diabetes. J. Exp. Med. 191:97-104 (2000).

359. Weiss L, Whitmarsh AJ, Yang DD, Rincón M, Davis RJ, **Flavell RA**.
Regulation of *c-Jun NH_2-terminal kinase (JNK)* gene expression during T cell activation. J. Exp. Med. 191:139-145 (2000). PMC2195805

360. Roth KA, Kuan C-Y, Haydar TF, D'Sa-Eipper C, Shindler KS, Zheng TS, Kuida K, **Flavell RA**, Rakic P.
Epistatic and independent functions of caspase-3 and Bcl-X_L in developmental programmed cell death. Proc. Natl. Acad. Sci. USA 97:466-471 (2000). PMC26686

361. Green EA, Wong FS, Eshima K, Mora C, **Flavell RA**.
Neonatal TNFα promotes diabetes in NOD mice by CD154-independent antigen presentation to CD8+ T cells. J. Exp. Med. 191:225-237 (2000). PMC2195753

362. Diehl NL, Enslen H, Fortner KA, Merritt C, Stetson N, **Flavell RA**, Davis RJ, Rincón M.
Activation of the p38 MAP kinase pathway arrests cell cycle progression and differentiation of immature thymocytes *in vivo*. J. Exp. Med. 191:321-334 (2000). PMC2195760

363. Gorelik L, **Flavell RA**.
Abrogation of TGF-β signaling in T-cells leads to spontaneous T-cell differentiation and autoimmune disease. Immunity 12:171-181 (2000).

364. Bot A, Holz A, Wolfe T, Temann A, **Flavell RA**, von Herrath M.
Local IL-4 expression in the lung reduces pulmonary influenza-virus-specific secondary cytotoxic T cell responses. Virology 269:66-77 (2000).

365. Dong C, **Flavell RA**.
Cell fate decision: Th1 and Th2 subsets in immune responses. Arthritis Res. 2:179-188 (2000). PMC130000

366. Kuhn C III, Homer RJ, Zhu Z, Ward N, **Flavell RA**, Geba G, Elias JA.
Airways hyperresponsiveness and airways obstruction in transgenic mice: Morphologic correlates in mice overexpressing interleukin-11 and interleukin-6 in the lung. Am. J. Respir. Cell Mol. Biol. 22:289-295 (2000).

367. Pierre P, Shachar I, Matza D, **Flavell RA**, Mellman I.
Invariant chain controls H2-M proteolysis in mouse splenocytes and dendritic cells. J. Exp. Med. 191:1057-1062 (2000). PMC2193111

368. Otterbein LE, Bach FH, Alam J, Soares M, Tao Lu H, Wysk M, Davis RJ, **Flavell RA**, Choi AMK.
Carbon monoxide has anti-inflammatory effects involving the mitogen-activated protein kinase pathway. Nat. Med. 6:422-428 (2000).

369. Rincón M, Conze D, Weiss L, Diehl NL, Fortner KA, Yang D, **Flavell RA**, Enslen H, Whitmarsh A, Davis RJ.
Conference highlight: do T cells care about the mitogen-activated protein kinase signaling pathways? Immunol. Cell. Biol. 78:166-175 (2000).

370. Selznick LA, Zheng TS, **Flavell RA**, Rakic P, Roth KA.
Amyloid beta-induced neuronal death is bax-dependent but caspase-independent. J. Neuropath. Exp. Neurol. 59:271-279 (2000).

371. Zheng TS, **Flavell RA**
Divinations and surprises: Genetic analysis of caspase function in mice. Exp. Cell Res. 256:67-73 (2000).

372. Green EA, **Flavell RA**.
The temporal importance of TNFα expression in the development of diabetes. Immunity 12:459-469 (2000).

373. Rincón M, **Flavell RA**, Davis RJ.
The JNK and p38 MAP kinase signaling pathways in T-cell mediated immune responses. (Review) Free Radic.l Biol. Med. 28:1328-1337 (2000).

374. Magnarelli LA, Ijdo JW, Padula SJ, **Flavell RA**, Fikrig E.
Serologic diagnosis of Lyme borreliosis by using enzyme-linked immunosorbent assays with recombinant antigens. J. Clin. Microbiol. 38:1735-1739 (2000). PMC86574

375. Dong C, Yang DD, Tournier C, Whitmarsh AJ, Xu J, Davis RJ, **Flavell RA**.
JNK is required for effector T cell function but not for T cell activation. Nature 405:91-94 (2000).

376. Tournier C, Hess P, Yang DD, Xu J, Turner TK, Nimnual A, Bar-Sagi D, Jones SN, **Flavell RA**, Davis RJ.
Requirement of JNK for stress-induced activation of the cytochrome C-mediated death pathway. Science 288:870-874 (2000).

377. Fikrig E, Feng W, Barthold SW, Telford SR III, **Flavell RA**.
Anthropod- and host-specific *Borrelia burgdorferi bbk32* expression and the inhibition of spirochete transmission. J. Immunol. 164:5344-5351 (2000).

378. Millet I, Phillips R, Sherwin RS, Ghosh S, Voll RE, **Flavell RA**, Vignery A, Rincón M.
Inhibition of NF-κB activity and enhancement of apoptosis by the neuropeptide calcitonin gene-related peptide. J. Biol. Chem. 20:15114-15121 (2000).

379. Li B, Yu H, Zheng W-p, Voll R, Na S, Roberts AW, Williams DA, Davis RJ, Ghosh S, **Flavell RA**.
Role of the Guanosine Triphosphatase Rac2 in T helper 1 cell differentiation. Science 288:2219-2222 (2000).

380. Chow C-W, Dong C, **Flavell RA**, Davis RJ.
c-Jun NH2-terminal kinase inhibits targeting of the protein phosphatase calcineurin to NFATc1. Mol. Cell. Biol. 20:5227-5234 (2000). PMC85971

381. Kuan C-Y, Roth KA, **Flavell RA**, Rakic P.
Mechanisms of programmed cell death in the developing brain. Trends in Neurosci.(Review) 23:291-297 (2000).

382. Zheng TS, **Flavell RA**.
Death by numbers. Nat. Biotechnol. 18:717-718 (2000).

383. Pompeiano M, Blaschke AJ, **Flavell RA**, Srinivasan A, Chun J.
Decreased apoptosis in proliferative and postmitotic regions of the caspase 3 deficient embryonic CNS. J. Comp. Neurol. 423:1-12 (2000).

384. Iordanov MS, Wong J, Newton DL, Rybak SM, Bright RK, **Flavell RA**, Davis RJ, Magun BE.
Differential requirement for the stress-activated protein kinase/c-Jun NH_2-terminal kinase in RNA damage-induced apoptosis in primary and in immortalized fibroblasts. Mol. Cell Biol. Res. Communications. 4:122-128 (2000).

385. Zhang F, Rincón M, **Flavell RA**, Aune T
Defective Th function induced by a dominant-negative cAMP response element binding protein mutation is reversed by Bcl-2. J. Immunol. 165:1762-1770 (2000).

386. Manuelidis L, Zaitsev I, Koni P, Lu ZY, **Flavell RA**, Fritch W.
Follicular dendritic cells and the dissemination of Creutzfeldt-Jakob disease. J. Virol. 74:8614-8622 (2000). PMC116374

387. deJong YP, Comiskey M, Kalled SL, Mizoguchi E, **Flavell RA**, Bhan AK, Terhorst C.
Chronic murine colitis is dependent on the CD154/CD40 pathways and can be attenuated by anti-CD154 administration. Gastroenterology 119:715-723 (2000).

388. Mencacci A, Bacci A, Cenci E, Montagnoli C, Fiorucci S, Casagrande A, **Flavell RA**, Bistoni F, Romani L.
IL-18 restores defective Th1 immunity to *Candida albicans* in caspase-1 deficient mice. Infect. Immun. 68:5126-5131 (2000). PMC101755

389. Constant SL, Dong C, Yang DD, Wysk M, Davis RJ, **Flavell RA.**
JNK1 is required for T cell-mediated immunity against *Leishmania major* infection. J. Immunol. 165:2671-2676 (2000).

390. Dong C, **Flavell RA**.
Perspective: Control of T helper cell differentiation in search of master genes. Science STKE (2000) (49), pe1. [DOI: 10.1126/stke.2000.49.pe1]

391. Voll RE, Phillips RJ, Barber DF, Rincón M, Hayday AC, **Flavell RA**, Ghosh S.
NF-κB activation by the pre-T cell receptor serves as a selective survival signal in T-lymphocyte development. Immunity 13:677-689 (2000).

392. Zheng TS, Hunot S, Kuida K, Momoi T, Srinivasan A, Nicholson DW, Lazebnik Y, **Flavell RA**.
Deficiency in caspase-9 or caspase-3 induces compensatory caspase activation. Nat. Medicine 6:1241-1247 (2000).

393. Flaishon L, Hershkoviz R, Lantner F, Lider O, Alon R, Levo Y, **Flavell RA**, Shachar I.
Autocrine secretion of interferon-γ negatively regulates homing of immature B cells. J. Exp. Med. 192:1381-1387 (2000). PMC2193359

394. Gorelik L, Fields PE, **Flavell** RA.
Cutting Edge: TGF-β inhibits Th type 2 development through inhibition of GATA-3 expression. J. Immunol. 165:4773-4777 (2000).

395. Simon AK, Auphan N, Pophillat M, Boyer C, Ghosh S, Rincón M, **Flavell RA**, Schmitt-Verhulst AM.
The lack of NF-κB transactivation and PKCε expression in CD4+CD8+ thymocytes correlates with negative selection. Cell Death Differ. 7:1253-1262 (2000).

396. Vaux DL, **Flavell RA**.
Apoptosis genes and autoimmunity. (Review) Current Opin. Immunol. 12:719-724 (2000).

397. Dong C, **Flavell RA**.
Th1 and Th2 cells (Review). Curr. Opin. Hematol. 8:47-51 (2001).

398. D'Sa-Eipper C, Leonard JR, Putcha G, Zheng TS, **Flavell RA**, Rakic P, Kuida K, Roth KA.
DNA damage-induced neural precursor cell apoptosis requires p53 and caspase-9 but neither Bax nor caspase-3. Development 128:137-146 (2001).

399. Zaidi AU, D'Sa-Eipper C, Brenner J, Kuida K, Zheng TS, **Flavell RA**, Rakic P, Roth KA.
Bcl-X_L-caspase-9 interactions in the developing nervous system: Evidence for multiple death pathways. J. Neurosci. 21:169-175 (2001).

400. Dong C, Juedes AE, Temann U-A, Shresta S, Allison JP, Ruddle NH, **Flavell RA**.
ICOS co-costimulatory receptor essential for T-cell activation and function. Nature 409:97-101 (2001).

401. Dong C, Temann U-A, **Flavell RA**.
Cutting Edge: Critical role of inducible costimulator in germinal center reactions. J. Immunol. 166:3659-3662 (2001).

402. Koni PA, Joshi SK, Temann U-A, Olson D, Burkly L, **Flavell RA**.
Conditional VCAM-1 deletion in mice: Impaired lymphocyte migration to bone marrow. J. Exp. Med. 193:741-753 (2001). PMC2193418

403. Grewal IS, Foellmer HG, Grewal KD, Lee WP, Tumas D, Janeway CA, Jr, **Flavell RA**.
CD62L is required on effector cells for local interactions in the central nervous system to cause myelin damage in experimental allergic encephalomyelitis. Immunity 14:291-302 (2001).

404. Lee GR, Fields PE, **Flavell RA**.
Regulation of IL4 gene expression by distal regulatory elements and GATA-3 at the chromatin level. Immunity 14:447-459 (2001).

405. Spahn TW, Fontana A, Faria AM, Slavin AJ, Eugster H-P, Zhang X, Koni PA, Ruddle NH, **Flavell RA**, Rennert PD, Weiner HL.
Induction of oral tolerance to cellular immune responses in the absence of Peyer's patches. Eur. J. Immunol. 31:1278-1287 (2001).

406. Rincón M, **Flavell RA**, Davis RJ.
Signal transduction by MAP kinases in T lymphocytes. Oncogene 20:2490-2497 (2001).

407. Fields PE, **Flavell RA**.
Helper T cell differentiation: A role for SAP? Nat. Immunol. 2:382-384 (2001).

408. Lu B, Yu H, Chow C-w, Li B, Zheng W-p, Davis RJ, **Flavell RA**.
GADD45γ mediates the requirement of the p38 and JNK MAP kinase pathways and cytokine production in effector Th1 cells. Immunity 14:583-590 (2001).

409. Hunot S, **Flavell RA**.
Perspective in Apoptosis: Death of a monopoly? Science 292:865-866 (2001).

410. Chen N-Y, Nomura M, She Q-B, Ma W-Y, Bode AM, Wang L, **Flavell RA**, Dong Z.
Suppression of skin tumorogenesis in c-Jun NH_2-terminal kinase-2-deficient mice. Cancer Res. 61:3908-3912 (2001).

411. Matikainen T, Perez GI, Zheng TS, Kluzak TR, Rueda BR, **Flavell RA**, Tilly JL.
Caspase-3 gene knockout defines cell lineage specificity for programmed cell death signaling in the ovary. Endocrinology 142:2468-2480 (2001).

412. Tournier C, Dong C, Turner TK, Jones SN, **Flavell RA**, Davis RJ.
MKK7 is an essential component of the JNK signal transduction pathway activated by proinflammatory cytokines. Genes Dev. 15:1419-1426 (2001). PMC312702

413. Rennert PD, Hochman PS, **Flavell RA**, Chaplin DD, Jayaraman S, Browning JL, Fu YX.
Essential role of lymph nodes in contact hypersensitivity revealed in Ltα-deficient mice. J. Exp. Med. 193:1227-1238 (2001). PMC2193379

414. Christen U, Wolfe T, Möhrle U, Hughes AC, Rodrigo E, Green EA, **Flavell RA**, von Herrath MG.
A dual role for TNFα in type 1 diabetes: Islet specific expression abrogates the ongoing autoimmune process when induced late but not early during pathogenesis. J. Immunol. 166:7023-7032 (2001).

415. Dong C, Davis RJ, **Flavell RA**.
Signaling by JNK group of Map kinases. (Review) J. Clin. Immunol. 21:253-257 (2001).

416. Oppenheim RW, **Flavell RA**, Vinsant S, Prevette D, Kuan C-Y, Rakic P.
Programmed cell death of developing mammalian neurons following genetic deletion of caspases. J. Neurosci. 21:4752-4760 (2001).

417. Bruckner SR, Tammariello SP, Kuan C-Y, **Flavell RA**, Rakic P, Estus S.
JNK3 contributes to c-Jun activation and apoptosis but not oxidative stress in nerve growth factor-deprived sympathetic neurons. J. Neurochem. 78:298-303 (2001).

418. Kontoyiannis D, Kotlyarov A, Carballo E, Alexopoulou L, Blackshear P, Gaestel M, Davis RJ, **Flavell RA**, Kollias G.
Interleukin-10 targets SAPK modulation of ARE-dependent TNF mRNA translation to control the development of TNF mediated intestinal immunopathology. EMBO J. 20:3760-3770 (2001).

419. Perez-Melgosa M, Ochs HD, Linsley PS, Laman JD, van Meurs M, **Flavell RA**, Ernst RK, Miller SI, Wilson CB.
Carrier-mediated enhancement of cognate T cell help: The basis for enhanced immunogenicity of meningococcal outer membrane protein polysaccharide conjugate vaccine. Eur. J. Immunol. 31:2373-2381 (2001).

420. Zhang P-X, Cooper E, Loomis R, **Flavell RA**, Fuleihan RL.
Expression of a human CD40 ligand transgene in CD40 ligand-deficient mice. Transgenics 3:227-236 (2001).

421. Wu H-J, Venkataraman C, Estus S, Dong C, Davis RJ, **Flavell RA**, Bondada S.
Positive signaling through CD72 induces mitogen-activated protein kinase activation and synergizes with B cell receptor signals to induce X-linked immunodeficiency B cell proliferation. J. Immunol. 167:1263-1273 (2001).

422. Cheng E H-Y, Wei MC, Weiler S, **Flavell R**, Mak TW, Lindsten T, Korsmeyer SJ.
BCL-2, BCL-X_L sequester BH3 domain-only molecules preventing BAX- and BAK-mediated mitochondrial apoptosis. Mol. Cell 8:705-711 (2001).

423. Staudt LM, **Flavell RA**.
Editorial: Genomics, genetics and genes of the immune system. Immunity 15:335-336 (2001).

424. Whitmarsh AJ, Kuan C-Y, Kennedy N, Kelkar N, Haydar T, Mordes JP, Appel M, Rossini A, Jones SN, **Flavell RA**, Rakic P, Davis RJ.
Requirement of the JIP1 scaffold protein for stress-induced JNK activation. Genes Dev 15:2421-2432 (2001). PMC312784

425. Gorelik L, **Flavell, RA**.
Immune mediated eradication of tumors through the blockade of TGF-β signaling in T cells. Nat. Med. 7:1118-1122 (2001).

426. Zaidi AU, McDonough JS, Klocke BJ, Lathan CB, Korsmeyer SJ, **Flavell RA**, Schmidt RE, Roth KA.
Chloroquine-induced neuronal cell death is p53 and Bcl-2 family-dependent but caspase-independent. J Neuropathol Exp Neurol. 60:937-45 (2001)

427. Yu H, Leitenberg D, Li B, **Flavell RA**.
Deficiency of small GTPase Rac2 affects T cell activation. J. Exp. Med. 194:915-925 (2001). PMC2193485

428. Morishima Y, Gotoh Y, Zieg J, Barrett T, Takano H, **Flavell RA**, Davis RJ, Shirasaki Y, Greenberg ME.
β-amyloid induces neuronal apoptosis via a mechanism that involves the c-Jun N-terminal kinase pathway and the induction of Fas ligand. J. Neurosci. 27:7551-7560 (2001).

429. Geiger TL, Nguyen P, Leitenberg D, **Flavell RA**.
Integrated src kinase and costimulatory activity enhances signal transduction through single chain chimeric receptors in T lymphocytes. Blood 98:2364-2371 (2001).

430. Alexopoulou L, Holt AC, Medzhitov R, **Flavell RA**.
Recognition of double-stranded RNA and activation of NF-kappaB by Toll-like receptor 3,. Nature 413:732-738 (2001).

431. Sun H, Lu B, Li R-Q, Cattoretti G, **Flavell R**, Taneja R.
Defective T-cell activation and autoimmune disorder in Stra13-deficient mice. Nat. Immunol. 2:1040-1047 (2001).

432. Maric M, Arunachalam B, Phan UT, Dong C, Garrett WS, Cannon KS, Alfonso C, Karlsson L, **Flavell RA**, Cresswell P.
Defective antigen processing in GILT-free mice. Science 294:13611365 (2001).

433. Lakhani S, **Flavell RA**.
Natural sunscreen revealed. Nat. Cell Biol. 3:E272 (2001).

434. Dong C, Davis RJ, **Flavell RA**.
MAP kinases in the immune response. Annu. Rev. Immunol. 20:55-72 (2002).

435. Gorelik L, **Flavell RA**.
Transforming growth factor-β in T-cell biology. (Review) Nat. Rev. Immunol. 2:46-53 (2002).

436. Temann U-A, Ray P, **Flavell RA**.
Pulmonary overexpression of IL-9 induces Th2 cytokine expression, leading to immune pathology. J. Clin. Invest. 109:29-39 (2002). PMC150821

437. **Flavell RA**, Dong C, Davis RJ.
Signaling and cell death in lymphocytes. Supplement to Inflammation Res. 51:80-82 (2002).

438. Green EA, Choi Y, **Flavell RA**.
Pancreatic lymph node-derived CD4+CD25+ Treg cells; highly potent regulators of diabetes that require TRANCE-RANK signals. Immunity 16:183-191 (2002).

439. Li X, Sia B, Lu B, **Flavell RA**, Lim B.
The hematopoietic specific GTP-binding protein RhoH is GTPase deficient and modulates activities of other Rho GTPases by inhibitory function. Mol. Cell. Biol. 22:1158-1171 (2002). PMC134637

440. Martinez-Barnetche J, Madrid-Marina V, **Flavell RA**, Moreno J.
Does CD40 ligation induce B cell negative selection? J. Immunol. 168:1042-1049 (2002).

441. Tan J, Town T, Mori T, Wu Y, Obregon D, Wu Y, DelleDonne A, Rojiani A, Crawford F, **Flavell RA**, Mullan M.
CD40 is expressed and functional on neuronal cells. EMBO J. 21:643-652 (2002). PMC125862

442. Topilski I, Harmelin A, **Flavell RA**, Levo Y, Shachar I.
Preferential Th1 immune response in invariant chain-deficient mice. J. Immunol. 168:1610-1617 (2002).

443. Di Paolo G, Sankaranarayanan S, Wenk MR, Daniell L, Perucco E, Caldarone BJ, **Flavell R**, Picciotto MR, Ryan TA, Cremona O, DeCamilli P.
Decreased synaptic vesicle recycling efficiency and cognitive deficits in amphiphysin 1 knockout mice. Neuron 33:789-804 (2002).

444. Koedel U, Winkler F, Angele B, Fontana A, **Flavell RA**, Pfister H-W.
Role of caspase-1 in experimental pneumococcal meningitis: Evidence from pharmacologic caspase inhibition and caspase-1 deficient mice. Ann. Neurol. 51:319-329 (2002).

445. She Q-B, Chen N, Bode AM, **Flavell RA**, Dong Z.
Deficiency of c-Jun-NH2-terminal kinase-1 in mice enhances skin tumor development by 12-0-tetradecanoylphorbol-13-acetate. Cancer Res. 62:1343-1348 (2002).

446. Kobayashi K, Inohara N, Hernandez LD, Galán JE, Núñez G, Janeway CA Jr, Medzhitov R, **Flavell RA**.
RICK/RIP2/CARDIAK/CCK transduces innate immune signaling for both Toll-like receptors and Nod family proteins. Nature 416:194-199 (2002).

447. Carambula SF, Matikainen T, Lynch MP, **Flavell RA**, Dias Goncalves PB, Tilly JL, Rueda BR.
Caspase-3 is a pivotal mediator of apoptosis during regression of the ovarian corpus luteum. Endocrinology 143:1495-1501 (2002).

448. Arbour N, Naniche D, Homann D, Davis RJ, **Flavell RA**, Oldstone MBA.
c-Jun NH_2-terminal kinase (JNK)1 and JNK2 signaling pathways have divergent roles in CD8+ T cell-mediated antiviral immunity. J. Exp. Med. 195:801-810 (2002). PMC2193720

449. Conze D, Krahl T, Kennedy N, Weiss L, Lumsden J, Hess P, **Flavell RA**, LeGros G, Davis RJ, Rincon M.
c-Jun NH_2-terminal kinase (JNK)1 and JNK2 have distinct roles in CD8+ T cell activation. J. Exp. Med. 195:811-823 (2002). PMC2193724

450. Oldstone MBA, Race R, Thomas D, Lewicki H, Homann D, Smelt S, Holz A, Koni P, Lo D, Grosby M, Chesebro B, **Flavell RA**.
Lymphotoxin-α- and lymphotoxin-β-deficient mice differ in susceptibility to scrapie: Evidence against dendritic cell involvement in neuroinvasion. J. Virol. 76:4357-4363 (2002).

451. Gorelik L, Constant, S, **Flavell RA**.
Mechanism of transforming growth factor β-induced inhibition of T helper type 1 differentiation. J. Exp. Med. 195:1499-1505 (2002). PMC2193549

452. Anguita J, Barthold SW, Persinski R, Hedrick MN, Huy CA, Davis RJ, **Flavell RA**, Fikrig E.
Murine Lyme arthritis development mediated by p38 mitogen-activated protein kinase activity. J. Immunol. 168:6352-6357 (2002).

453. Lei K, Nimnual A, Zong W-X, Kennedy NK, **Flavell RA**, Thompson CB, Bar-Sagi D, Davis RJ
The Bax sub-family of Bcl2-related proteins is essential for apoptotic signal transduction by c-Jun NH_2-terminal kinase. Mol. Cell. Biol. 22:4929-4942 (2002). PMC133923

454. Fields PE, Kim ST, **Flavell RA**
Cutting Edge: Changes in histone acetylation at the IL-4 and IFN-γ loci accompany Th1/Th2 differentiation. J. Immunol. 169:647-650 (2002).

455. Laouar Y, Gorelik L, **Flavell RA**
Immune-mediated eradication of tumors through the blockade of transforming growth factor-β signaling in T cells. Directions in Science 1:113-115 (2002).

456. Kobayashi K, Hernandez LD, Galán JE, Janeway C, Jr., Medzhitov R, **Flavell RA**.
IRAK-M is a negative regulator of Toll-like receptor signaling. Cell 110:191-202 (2002).

457. Alexopoulou L, Thomas V, Schnare M, Lobet Y, Anguita J, Schoen RT, Medzhitov R, Fikrig E, **Flavell RA**.
Hyporesponsiveness to vaccination with *Borrelia burgdorferi* OspA in humans, TLR1- and TLR2-deficient mice. Nat. Med. 8:878-884 (2002).

458. Tanaka N, Kamanaka M, Enslen H, Dong C, Wysk M, Davis RJ, **Flavell RA**.
Differential involvement of p38 mitogen-activated kinase (MAP) kinases kinases, MKK3 and MKK6, on T cell apoptosis. EMBO Rep. 3:785-791 (2002). PMC1084207

459. Leonard JR, Klocke BJ, D'Sa C, **Flavell RA**, Roth KA.
Strain-dependent neurodevelopmental abnormalities in caspase-3-deficient mice. J. Neuropathol. Exp. Neurol. 61:673-677 (2002)

460. Nicolson K, Freland S, Weir C, Delahunt B, **Flavell RA**, Bäckström BT.
Induction of experimental autoimmune encephalomyelitis in the absence of c-Jun N-terminal kinase 2. Int. Immunol. 14:849-856 (2002).

461. Grewal IS, Grewal KD, Wong FS, Picarella DE, Janeway CA Jr, **Flavell RA**.
Expression of transgene encoded TGF-β in islets prevents autoimmune diabetes in NOD mice by a local mechanism. J. Autoimmun. 19:9-22 (2002).

462. Hess P, Pihan G, Sawyers CL, **Flavell RA**, Davis RJ.
Survival signaling mediated by c-Jun NH_2-terminal kinase in transformed B lymphoblasts. Nat. Genet. 32:201:205 (2002).

463. Ghahremani MH, Keramaris E, Shree T, Xia Z, Davis RJ, **Flavell R**, Slack RS, and Park DS.
Interaction of the c-Jun/JNK pathway and cyclin-dependent kinases in death of embryonic cortical neurons evoked by DNA damage. J. Biol. Chem. 277:35586-35596 (2002).

464. Whittaker L, Niu N, Temann U-A, Stoddard A, **Flavell RA**, Ray A, Homer R, Cohn L.
IL-13 mediates a fundamental pathway for airway epithelial mucus induced by CD4 T cells and IL-9. Am. J. Respir. Cell Molec. Biol. 27:593-602 (2002).

465. Le DA, Wu Y, Huang Z, Matsushita K, Plesnila N, Hyman BT, Yuan J, Kuida K, **Flavell RA**, Moskowitz MA.
Caspase activation and neuroprotection in caspase-3 deficient mice after *in vivo* cerebral ischemia and *in vitro* oxygen glucose deprivation. Proc. Natl. Acad. Sci. USA 99:15188-15193 (2002). PMC137565

466. Horng T, Barton GM, **Flavell RA**, Medzhitov R.
The adaptor molecule TIRAP provides signaling specificity for Toll-like receptors. Nature 420:349-353 (2002).

467. Tan J, Town T, Crawford F, Mori T, DelleDonne A, Crescentini R, Obregon D, **Flavell RA**, Mullan MJ.
Role of CD40 ligand in amyloidosis in transgenic Alzheimer's mice. Nat. Neurosci. 5:1288-1293 (2002).

468. Jyothi MD, **Flavell RA**, Geiger TL.
Targeting autoantigen-specific T cells and suppression of autoimmune encephalomyelitis with receptor-modified T lymphocytes. Nat. Biotechnol. 20:1215-1220 (2002).

469. Wang L, Ma R, **Flavell RA**, Choi ME.
Requirement of mitogen activated protein kinase kinase 3 (MKK3) for activation of p38α and p38δ MAPK isoforms by TGF-β1 in murine mesangial cells. J. Biol. Chem. 277:47257-47262 (2002).

470. Kontoyiannis D, Boulougouris G, Manoloukos M, Armaka M, Apostolaki M, Pizarro T, Kotlyarov A, Forster I, **Flavell R**, Gaestel M, Tsichlis P, Comineli F, Kollias G.
Genetic dissection of the cellular pathways and signaling mechanisms in modeled tumor necrosis factor-induced Crohn's-like inflammatory bowel disease. J. Exp. Med. 196:1563-1574 (2002).

471. Zhang X, Shan P, Otterbein LE, Alam J, **Flavell RA**, Davis RJ, Choi AMK, Lee PJ.
Carbon monoxide inhibition of apoptosis during ischemia-reperfusion lung injury is dependent on the p38 mitogen-activated protein kinase pathway and involves caspase 3. J. Biol. Chem. 278:1248-1258 (2003).

472. Takai Y, Canning J, Perez GI, Pru JK, Schlezinger JJ, Sherr DH, Kolesnick RN, Yuan J, **Flavell RA**, Korsmeyer SJ, Tilly JL.
Bax, caspase-2 and caspase-3 are required for ovarian follicle loss caused by 4-vinylcyclohexene diepoxide exposure of female mice *in vivo*. Endocrinology 144:69-74 (2003).

473. Savinov AY, Tcherepanov A, Wong FS, Green A, **Flavell RA**, Chervonsky AV.
Contribution of Fas to diabetes development. Proc. Natl. Acad. Sci. USA 100:628-632 (2003). PMC141047

474. Rajagopalan G, Kudva YC, **Flavell RA**, David CS.
Accelerated diabetes in rat insulin promoter-tumor necrosis factor-α transgenic nonobese diabetic mice lacking major histocompatibility class II molecules. Diabetes 52:342-347 (2003).

475. Otterbein LE, Zuckerbraun BS, Haga M, Liu F, Song R, Usheva A, Stachulak C, Bodyak N, Smith RN, Csizmadia E, Tyagi S, Akamatsu Y, **Flavell RA**, Billiar TR, Tzeng E, Bach FH, Choi AMK, Soares MP.
Carbon monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury. Nat. Med. 9:183-190 (2003).

476. Carambula SF, Pru JK, Lynch MP, Matikainen T, Goncalves PBD, **Flavell RA**, Tilly JL, Rueda BR.
Prostaglandin $F_{2\alpha}$- and FAS-activating antibody-induced regression of the ovarian corpus luteum

involves caspase-8 and is defective in caspase-3 deficient mice. Reprod. Biol Endocrinol. http://www.RBEj.com/content/1/1/15 (2003). PMC152637

477. Welte T, Zhang SSM, Wang T, Zhang Z, Hesslein DGT, Yin Z, Kano A, Iwamoto Y, Li E, Craft JE, Bothwell ALM, Fikrig E, Koni P, **Flavell RA**, Fu X-Y.
STAT3 deletion during hematopoiesis causes Crohn's disease-like pathogenesis and lethality: A critical role of STAT3 in innate immunity. Proc. Natl. Acad. Sci. USA 100:1879-1884 (2003). PMC149927

478. Xu J, Koni PA, Wang P, Li G, Kaczmarek L, Wu Y, Li Y, **Flavell RA**, Desir GV.
The voltage-gated potassium channel Kv1.3 regulates energy homeostasis and body weight. Hum. Mol. Genet. 12:551-559 (2003).

479. Eshima K, Mora C, Wong FS, Green EA, Grewal IS, **Flavell RA**.
A crucial role of CD4 T cells as a functional source of CD154 in initiation of insulin-dependent diabetes mellitus in NOD mouse. Int. Immunol. 15:351-357 (2003).

480. Zhang X, Shan P, Sasidhar M, Chupp GL, **Flavell RA**, Choi AMK, Lee PJ.
Reactive oxygen species and extracellular signal-regulated kinase 1/2 mitogen-activated protein kinase mediate hyperoxia-induced cell death in lung epithelium. Am. J. Respir. Cell. Mol. Biol. 28:305-315 (2003).

481. Kennedy NJ, Sluss HK, Jones SN, Bar-Sagi D, **Flavell RA**, Davis RJ.
Suppression of Ras-stimulated transformation by the JNK signal transduction pathway. Genes Dev. 17:629-637 (2003). PMC196007

482. Blander JM, Sant'Angelo DB, Metz D, Kim S-W, **Flavell RA**, Bottomly K, Janeway CA Jr.
A pool of central memory-like CD4 T cells contains effector memory precursors. J. Immunol. 170:2940-2948 (2003).

483. Sarig R, Zaltsman Y, Marcellus RC, **Flavell R**, Mak TW.
BID-D59A is a potent inducer of apoptosis in primary embryonic fibroblasts. J. Biol. Chem. 278 10707-10715 (2003).

484. Ventura J-J, Kennedy NJ, Lamb JA, **Flavell RA**, Davis RJ.
c-Jun NH_2-terminal kinase is essential for the regulation of AP-1 by tumor necrosis factor. Mol. Cell. Biol. 23:2871-2882 (2003). PMC152565

485. Skak K. Guerder S, Picarella DE, Brenden N, **Flavell RA**, Michelsen BK.
TNFα impairs peripheral tolerance towards β-cells, and local costimulation by B7.1 enhances the effector function of diabetogenic T-cells. Eur. J. Immunol. 33:1341-1350 (2003).

486. Czyzyk J, Brogdon JL, Badou A, Henegariu O, Hurlburt PP, **Flavell RA**, Bottomly K.
Activation of CD4 T cells by Raf-independent effectors of Ras. Proc. Natl. Acad. Sci. USA 100:6003-6008 (2003). PMC156316

487. Weston CR, Wong A, Hall JP, Goad MEP, **Flavell RA**, Davis RJ.
JNK initiates a cytokine cascade that causes Pax2 expression and closure of the optic fissure. Genes Dev. 17:1271-1280 (2003). PMC196061

488. Lakhani S, **Flavell RA**.
Caspases and T lymphocytes: A flip of the coin? Immunol. Rev. 193:22-30 (2003). PMID: 12752667

489. Lamb J, Ventura J-J, Kennedy N, **Flavell RA**, Davis RJ.
JunD mediates survival signaling by the JNK signal transduction pathway. Mol. Cell 11:1479-1489 (2003).

490. Nurieva RI, Kishikawa H, Dianzani U, Rojo JM, Ho I-c, **Flavell RA**, Dong C.
Transcriptional regulation of Th2 differentiation by inducible costimulator. Immunity 18:801-811 (2003).

491. Zhang X, Shan P, Alam J, Davis RJ, **Flavell RA**, Lee PJ.
Carbon monoxide modulates Fas/Fas ligand, caspases, and Bcl-2 family proteins via the p38 alpha mitogen-activated protein kinase pathway during ischemia-reperfusion lung injury. J. Biol. Chem. 278:22061-22070 (2003).

492. Xue D, Shi H, Smith JD, Chen X, Noe DA, Cedervall T, Yang DD, Eynon E, Brash DE, Kashgarian M, **Flavell RA**, Wolin SL.
A Lupus-like syndrome develops in mice lacking the Ro 60-kDa protein, a major Lupus autoantigen. Proc. Natl. Acad. Sci. USA 100:7503-7508 (2003). PMC164616

493. Eshima K, Choi Y, **Flavell RA**.
CD154/CD40-independent up-regulation of B7.2 on splenic APCs and efficient T cell priming by Staphylococcal Enterotoxin A. Int. Immunol. 15:817-826 (2003).

494. Kobayashi KS, **Flavell RA**.
News and Views: Intracellular debugging. Nat. Immunol. 4:652-654 (2003).

495. Lee GR, Fields PE, Griffin TJ, IV, **Flavell RA**.
Regulation of the Th2 cytokine locus by a locus control region. Immunity 19:145-153 (2003).

496. Morse D, Otterbein LE, Watkins S, Alber S, Zhou Z, **Flavell RA**, Davis RJ, Choi AMK.
Deficiency in the c-Jun-NH_2-terminal kinase (JNK) signaling pathway confers susceptibility to hyperoxic lung injury in mice. Am. J. Physiol. Lung Cell. Mol. Physiol. 285:L250-L257 (2003).

497. Diebold SS, Montoya M, Unger H, Alexopoulou L, Roy P, Haswell LE, Al-Shamkhani A, **Flavell R**, Borrow P, Reis e Sousa C.
Viral infection switches non-plasmacytoid dendritic cells into high interferon producers. Nature 424:324-328 (2003).

498. Tanno M, Bassi R, Gorog DA, Saurin AT, Jiang J, Heads RJ, Martin JL, Davis RJ, **Flavell RA**, Marber MS.
Diverse mechanisms of myocardial p38-MAPK-activated protein kinase activation. Evidence for MKK-independent activation by a TAB1-associated mechanism contributing to injury during myocardial ischemia. Circ. Res. 93:254-261 (2003).

499. Brancho D, Tanaka N, Jaeschke A, Ventura J-J, Kelkar N, **Flavell RA**, Davis RJ.
Mechanism of p38 MAP Kinase activation *in vivo*. Genes Dev. 17:1969-1978 (2003). PMC196252

500. Chakrabarti S, Kobayashi K, **Flavell RA**, Marks C, Miyake K, McNeil PL, Liston DR, Fowler K, Gorelick FS, Andrews NW.
Impaired membrane resealing and autoimmune myositis in synaptotagmin VII-deficient mice. J. Clin. Biol. 162:543-549 (2003). PMC2173791

501. Kelkar N, Delmotte M-H, Weston CR, Barrett T, Sheppard B, **Flavell RA**, Davis RJ.
Morphogenesis of the telencephalic commissure requires scaffold protein JIP3. Proc. Natl. Acad. Sci. USA 100:9843-9848 (2003). PMC187860

502. Green EA, Gorelik L, McGregor CM, Tran EH, **Flavell RA**.
CD4+CD25+ T regulatory cells control anti-islet CD8+ T cells through TGFβ-TGFβ receptor interactions in type 1 diabetes. Proc. Natl. Acad. Sci. USA. 100:10878-10883 (2003). PMC196896

503. Morse D, Pischke S, Zhou Z, Davis R, **Flavell RA**, Loop T, Otterbein SL, Otterbein LE, Choi AMK.
Suppression of inflammatory cytokine production by carbon monoxide involves the JNK pathway and AP-1. J. Biol. Chem. 278:36993-36998 (2003).

504. Koni PA, Khana R, Chang MC, Tang MD, Kaczmarek LK, Schlichter LC, **Flavell RA**.
Compensatory anion currents in Kv1.3-channel-deficient thymocytes. J. Biol. Chem. 278:39443-39451 (2003).

505. Robertson A-K, Rudling M, Zhou X, Gorelik L, **Flavell RA**, Hansson GK.
Disruption of TGF-β signaling in T cells accelerates atherosclerosis. J. Clin. Invest. 112:1342-1350 (2003). PMC228445

506. D'Sa C, Klocke BJ, Cecconi F, Lindsten T, Thompson CB, Korsmeyer SJ, **Flavell RA**, Roth KA.
Caspase regulation of genotoxin-induced neural precursor cell death. J. Neurosci Res 74:435-445 (2003).

507. Kano A, Gao Q, Wolfgang MJ, Jacoby J, Chai G-X, Iwamoto Y, Pober JS, **Flavell RA**, Fu X-Y.
Endothelial cells require STAT3 for protection against endotoxin-induced inflammation. J. Exp. Med. 198:1517-1525 (2003). PMC2194113

508. Li M, Sarkisian M, Mehal W, Rakic P, **Flavell RA**.
Phosphatidylserine receptor is essential for the clearance of apoptotic cells during development. Science 302:1560-1563 (2003).

509. Hoebe K, Janssen EM, Kim SO, Alexopoulou L, **Flavell RA**, Han J, Beutler B.
Upregulation of costimulatory molecules induced by lipopolysaccharide and double-stranded RNA occurs by Trif-dependent and Trif-independent pathways. Nat. Immunol. 4:1223-1229 (2003).

510. Otterbein LE, Otterbein SL, Ifedigbo E, Liu F, Morse DE, Fearns C, Ulevitch RJ, Knickelbein R, **Flavell RA**, Choi AMK.
MKK3 mitogen-activated protein kinase pathway mediates carbon monoxide-induced protection against oxidant-induced lung injury. Am. J. Pathol. 163:2555-2563 (2003). PMC1892354

511. Xiao C. Shim J-h, Klüppel M, Zhang SS-M, Dong C, **Flavell RA**, Fu X-Y, Wrana JL, Hogan BLM, Ghosh S.
Ecsit is required for Bmp signaling and mesoderm formation during mouse embryogenesis. Genes Dev. 17:2933-2949 (2003). PMC289152

512. Hernandez LD, Pypaert M, **Flavell RA**, Galán JE.
A *Salmonella* protein causes macrophage cell death by inducing autophagy. J. Cell Biol. 163:1123-1131 (2003). PMC 2173598

513. Laouar L, Welte T, Fu X-Y, **Flavell RA**.
STAT3 is required for Flt3L-dependent dendritic cell differentiation. Immunity 19:903-912 (2003).

514. Kuan C-Y, Whitmarsh AJ, Yang DD, Liao G, Schloemer AJ, Dong C, Bao J, Banasiak K. Haddad GG, **Flavell RA**, Davis RJ, Rakic P.
A critical role of neural-specific JNK3 for ischemic apoptosis. Proc. Natl. Acad. Sci. USA 100:15184-15189 (2003). PMC299947

515. Serbina N, Kuziel W, **Flavell RA**, Akira S, Rollins B, Pamer EG.
Sequential MyD88-independent and -dependent activation of innate immune responses to intracellular bacterial infection. Immunity 19:891-901 (2003).

516. Chen X, Smith JD, Shi H, Yang DD, **Flavell RA**, Wolin SL.
The RO 60 Kda autoantigen binds misfolded U2 small nuclear RNAs and assists mammalian cell survival following ultraviolet irradiation. Current Biol. 13:2206-2211 (2003).

517. Zheng W-p, Zhao O, Zhao X, Li B, Hubank M, Schatz DG, **Flavell RA**
Up-regulation of Hlx in immature Th cells induces IFN-γ expression. J. Immunol. 172:114-122 (2004).

518. Hunot S, Vila M, Teismann P, Davis RJ, Przedborski S, Hirsch EC, Rakic P, **Flavell RA**
JNK-mediated induction of COX-2 is required for neurodegeneration in a mouse model of Parkinson's disease. Proc. Natl. Acad. Sci. USA 101:665-670 (2004). PMC327205

519. Pal U, Yang X, Chen M, Bockenstedt LK, Anderson JF, **Flavell RA**, Norgard MV, Fikrig E.
OspC facilitates *Borrelia burgdorferi* colonization of *Ixodes scapularis* salivary glands. J. Clin. Invest. 113:220-230 (2004). PMC311436

520. Song R, Mahidhara RS, Zhou Z, Hoffman RA, Seol D-W, **Flavell RA**, Billiar TR, Otterbein LE, Choi AMK.
Carbon monoxide inhibits T lymphocyte proliferation via caspase-dependent pathway. J. Immunol. 172:1220-1226 (2004).

521. Lu B, Ferrandino AF, **Flavell RA**.
GADD45-β is important for enhancing and sustaining both cognitive and inflammatory signals in T cells. Nat. Immunol. 5:38-44 (2004).

522. Mora C, Grewal IS, **Flavell RA**.
Role of L-selectin in development of autoimmune diabetes in NOD mice. Int. Immunol. 16:257-264 (2004).

523. Tsuji NM, Tsutsui H, Seki E, Kuida K, Okamura H, Nakanishi K, **Flavell RA**.
Roles of caspase-1 in *Listeria*-infection in mice. Int. Immunol. 16:335-343 (2004).

524. Lichtenberger GS, **Flavell RA**, Alexopoulou L.
Innate immunity and apoptosis in IBD. Inflam. Bowel Dis. A Unique Approach to Redefining Pathogenesis and Therapeutics: February 5-6, 2004, Amsterdam, The Netherlands. 10 (Supplement 1):S58-S62,(2004).

525. Fadool DA, Tucker K, Fasciani G, Perkins R, Koni PA, **Flavell RA**, Kaczmarek LK.
Kv1.3 channel gene-targeted deletion produces "Super-smeller mice" with altered glomeruli, interacting scaffolding proteins, and biophysical properties. Neuron 41:389-404 (2004).

526. Fikrig E, Pal U, Chen M, Anderson JF, **Flavell RA**.
OspB antibody prevents *Borrelia burgdorferi* colonization of *Ixodes scapularis*. Infect. Immun. 72:1755-1759 (2004). PMC356050

527. Christen U, Wolfe T, Rodrigo E, Chervonsky A, **Flavell RA**, von Herrath M.
Virally induced inflammation triggers fratricide of Fas-ligand expressing β-cells. Diabetes 53:591-596 (2004).

528. Zhang D, Zhang G, Hayden MS, Greenblatt MB, Bussey C, **Flavell RA**, Ghosh S.
A Toll-like receptor that prevents infection by uropathogenic bacteria. Science 303:1522-1526 (2004).

529. Fikrig E, Coyle PK, Schutzer SE, Chen M, Deng Z, **Flavell RA**.
Preferential presence of decorin-binding protein B (BBA25) and BBA50 antibodies in cerebrospinal fluid of patients with neurologic Lyme disease. J. Clin. Microbiol. 42:1243-1246 (2004). PMC356844

530. Kobayashi KS, **Flavell RA**.
Shielding the double-edged sword: Negative regulation of the innate immune system. J. Leuk. Biol. 75:1-6 (2004).

531. Lu B, Panayiotis Z, Fischer JE, Lu J, Li B, **Flavell RA**.
Kinetic analysis of genome wide expression reveals key molecular circuitries that control T cell activation and Th1/Th2 differentiation. Proc. Natl. Acad. Sci. USA 101:3023-3028 (2004). PMC365748

532. Xu JC, Wang P, Li Y, Li G, Kaczmarek LK, Wu Y, Koni PA, **Flavell RA**, Desir GV.
The voltage-gated pottasium channel Kv1.3 regulates peripheral insulin sensitivity. Proc. Natl. Acad. Sci. USA 101:3112-3117 (2004). PMC365752

533. Tabeta K, Goegel P, Janssen E, Du X, Hoebe K, Crozat K, Mudd S, Shamel L, Sovath S, Goode J, Alexopoulou L, **Flavell RA**, Beutler B.
Toll-like receptors 9 and 3 as essential components of innate immune defense against mouse cytomegalovirus infection. Proc. Natl. Acad. Sci. USA 101:3516-3521 (2004). PMC373494

534. Laouar Y, Crispe IN, **Flavell RA**.
Plenary Paper: Overexpression if IL-7Rα provides a competitive advantage during early T cell development. Blood 103:1985-1994 (2004).

535. Komuro A, Masuda Y, Kobayashi K-I, Babbitt R, Gunel M, **Flavell RA**, Marchesi VT.
The AHNAKs are a class of giant propeller-like proteins that associate with calcium channel proteins of cardiomyocytes and other cells. Proc. Natl. Acad. Sci. USA 101:4053-4058 (2004). PMC384694

536. Peng Y, Laouar Y, Li MO, Green EA, **Flavell RA**.
TGF-β regulates *in vivo* expansion of Foxp3-expressing CD4+CD25+ regulatory T cells responsible for protection against diabetes. Proc. Natl. Acad. Sci. USA 101:4572-4577 (2004).

537. Lund J, Alexopoulou L, Sato A, Karow M, Adams NC, Gale NW, Iwasaki A, **Flavell RA**.
Recognition of single-stranded RNA viruses by Toll like receptor 7. Proc. Natl. Acad. Sci. USA 101:4572-4577 (2004).

538. Kim SV, **Flavell RA**.
Perspective: CD8$\alpha\alpha$ and T cell memory. Science 304:529-530 (2004).

539. Zare F, Bokarewa M, Nenonen N, Bergström T, Alexopoulou L, **Flavell RA**, Tarkowski A.
Arthritogenic properties of double stranded (viral) RNA. J. Immunol. 172:5656-5663 (2004).

540. Edelmann KH, Richardson-Burns S, Alexopoulou L, Tyler K, **Flavell RA**, Oldstone MBA.
Does Toll-like receptor 3 play a biological role in virus infections? Virology 322:231-238 (2004).

541. Behrens G, Li M, Davey GM, Allison J, **Flavell RA**, Carbone FR, Heath WR.
Helper requirements for generation of effector CTL to islet β cell antigens. J. Immunol. 172:5420-5426 (2004).

542. Chi H, Lu B, Takekawa M, Davis RJ, **Flavell RA**
GADD45β/GADD45γ and MEKK4 comprise a genetic pathway mediating STAT4-independent IFN-γ production in T cells. EMBO J. 23:1576-1586 (2004). PMC391077

543. Amsen D, Blander JM, Lee GR, Tanigaki K, Honjo T, **Flavell RA**.
Instruction of distinct CD4 T helper cell fates by different Notch ligands on antigen-presenting cells. Cell 117:515-526 (2004).

544. Kim SV, **Flavell RA**.
CD8αα: A guidance to become memory. Journal Commentary Summary. Immunol. In the News 4:8 (2004).

545. Ventura J-J, Kennedy NJ, **Flavell RA**, Davis RJ.
JNK regulates autocrine expression of TGF-β1. Mol. Cell 15:269-278 (2004).

546. Kulka M, Kelsall B, Rosenberg H, Alexopoulou L, **Flavell RA**, Metcalfe DD.
Activation of mast cells by double-stranded RNA: Evidence for activation through toll-like receptor-3 (TLR-3). J. Allergy Clin. Immunol. 114:174-182 (2004).

547. Lee GR, **Flavell RA**.
Transgenic mice which overexpress Th2 cytokines develop spontaneous atopic dermatitis and asthma. Int. Immunol. 16:1155-1160 (2004).

548. Scott BG, Yang H, Tüzün E, Dong C, **Flavell RA**, Christadoss P.
ICOS is essential for the development of experimental autoimmune myasthenia gravis. J. Neuroimmunol. 153:16-25 (2004).

549. Lee CG, Cho SJ, Kang MJ, Chapoval SP, Lee PJ, Noble PW, Yehualaeshet T, Lu B, **Flavell RA**, Milbrandt J, Homer RJ, Elias JA
Early growth response gene 1-mediated apoptosis is essential for transforming growth factor-β_1-induced pulmonary fibrosis. J. Exp. Med. 200:377-389 (2004). PMC2211975

550. Zhang Y, Blattman JN, Kennedy NJ, Duong J, Nguyen T, Wang Y, Davis RJ, Greenberg PD, **Flavell RA**, Dong C.
Regulation of innate and adaptive immune responses by MAP kinase phosphatase 5. Nature 430:793-797 (2004).

551. Young HY, Zucker P, **Flavell RA**, Jevnikar AM, Singh, B
Characterization of the role of major histocompatibility complex in Type 1 diabetes recurrence after islet transplantation. Transplantation 78:509-515 (2004).

552. DiPaolo G, Moskowitz H, Gipson K, Wenk MR, Voronov S, Obayashi M, **Flavell R**, Fitzimonds RM, Ryan TA, DeCamilli P.
Impaired PtdIns(4,5)P_2 synthesis in nerve terminals produces defects in synaptic vesicle trafficking. Nature 431:415-422 (2004).

553. Weston CR, Wong A, Hall JP, Goad EM, **Flavell RA**, Davis RJ.
JNK is essential for epidermal growth factor expression during epidermal morphogenesis. Proc. Natl. Acad. Sci. USA 101:14114-14119 (2004). PMC521127

554. Spilianakis CG, **Flavell RA**:
Long range intrachromosomal interactions in the Th2 cytokine locus. Nat. Immunol. 5:1017-1027 (2004).

555. Gao Y, Qian W-P, Dark K, Toraldo G, Lin ASP, Guldberg RE, **Flavell RA**, Weitzmann MN, Pacifici R.
Estrogen prevents bone loss through TGF-β signaling in T cells. Proc. Natl. Acad. Sci. USA 101:16618-16623 (2004). PMC534514

556. Kuan C-Y, Schloemer AJ, Lu A, Burns KA, Weng W-L, Williams MT, Strauss KI, Vorhees CV, **Flavell RA**, Davis RJ, Sharp FR, Rakic P.
Hypoxia-ischemia induces DNA synthesis without cell proliferation in dying neurons in adult rodent brain. J. Neurosci. 24:10763-10772 (2004).

557. Fields PE, Lee GR, Kim ST, Bartsevich V, **Flavell RA**.
Th2-specific chromatin remodeling and enhancer activity in the Th2 cytokine locus control region. Immunity 21:865-876 (2004).

558. Lopez BC, Moltedo B, Alexopoulou L, Bonifaz L, **Flavell RA**, Moran TM.
TLR-independent induction of dendritic cell maturation and adaptive immunity by negative-strand RNA viruses. J. Immunol. 173:6882-6889 (2004).

559. Ventura J-J, Cogswell P, **Flavell RA**, Baldwin AS Jr, Davis RJ.
JNK potentiates TNF-stimulated necrosis by increasing the production of cytotoxic reactive oxygen species. Genes Dev. 18:2905-2915 (2004). PMC534651

560. Wang T, Town T, Alexopoulou L, Anderson JF, Fikrig E, **Flavell RA**.
Toll-like receptor 3 mediates West Nile Virus entry into the brain causing lethal encephalitis. Nat. Med. 10:1366-1373 (2004).

561. Miura M, Chen X-D, Allen MR, Bi Y, Gronthos S, Seo B-M, Lakhani S, **Flavell RA**, Feng X-H, Robey PG, Young M, Shi S.
A crucial role of caspase-3 in osteogenic differentiation of bone marrow stromal stem cells. J. Clin. Invest. 114:1704-1713 (2004). PMC535063

562. Lee GR, Spilianakis CG, **Flavell RA**.
Hypersensitive site 7 of the Th2 cytokine LCR is essential for expression of the Th2 cytokine genes and long range intrachromosomal interaction. Nat. Immunol. 6:42-48 (2005).

563. Brecht S, Kirchhof R, Chromik A, Willesen M, Nicolaus T, Raivich G, Wessig J, Waetzig V, Goetz M, Claussen M, Pearse D, Kuan C-Y, Vaudano E, Behrens A, Wagner E, **Flavell RA**, Davis RJ, Herdegen T.
Specific pathophysiological functions of JNK isoforms in the brain. Eur. J. Neurosci. 21:363-377 (2005).

564. Chen M-L, Pittet MJ, Weissleder R, Gorelik L, **Flavell RA**, von Boehmer H, Khazaie K.
Regulatory T cells suppress tumor specific CD8 T-cell cytotoxicity through TGF-β signals *in vivo*. Proc. Natl. Acad. Sci. USA 102:419-424 (2005). PMC544311

565. Townsend KP, Town T, Mori T, Lue L-F, Shytle D, Sanberg P, Morgan D, Fernandez F, **Flavell RA**, Tan J.
CD40 signaling regulates innate and adaptive activation of microglia in response to amyloid -peptide. Eur. J. Immunol. 35:901-910 (2005).

566. Kwon H, Jun H-S, Yang Y, Mora C, Marithasan S, Ohashi PS, **Flavell RA**, Yoon J-W. Development of autoreactive diabetogenic T cells in the thymus of NOD mice. J. Autoimmunity 24:11-23 (2005).

567. Kobayashi KS, Chamaillard M, Ogura Y, Henegariu O, Inohara N, Nuñez G, **Flavell RA**. Nod2-dependent regulation of innate and adaptive immunity in the intestinal tract. Science 307:731-734 (2005).

568. Schulz O, Diebold SS, Chen M, Naslund T, Nolte M, Alexopoulou L, Azuma Y, **Flavell RA**, Lijestrom P, Reis e Sousa C. Toll-like receptor 3 mediates dendritic cell activation by virus-infected cells and promotes cross-priming *in vivo*. Nature 433:887-892 (2005).

569. Bynoe MS, Viret C, **Flavell RA**, Janeway CA Jr. T cells from epicutaneously immunized mice are prone to T cell receptor revision. Proc. Natl. Acad. Sci. USA 102:2898-2903 (2005). PMC549496

570. Chi H, **Flavell RA**. Cutting Edge: Regulation of T cell trafficking and primary immune responses by sphingosine 1-phosphate receptor 1. J. Immunol. 174:2485-2488 (2005).

571. Fahlén L, Read S, Gorelik L, Hurst SD, Coffman RL, **Flavell RA**, Powrie F. T cells that cannot respond to TGF-β escape control by CD4+CD25+ regulatory T cells. J. Exp. Med. 201:737-746 (2005). PMC2212836

572. Chi H, Sarkisian MR, Rakic P, **Flavell RA**. Loss of MEKK4 results in enhanced apoptosis and defective neural tube development. Proc. Natl. Acad. Sci. USA. 102:3846-3851 (2005). PMC55336

573. Gangwani L, **Flavell RA**, Davis RJ. ZPR1 is essential for survival and is required for localization of the survival motor neurons (SMN) protein to cajal bodies. Mol. Cell. Biol. 25:2744-2756 (2005). PMC1061650

574. Kim L, Del Rio L, Butcher BA, Mogensen TH, Paludan SR, **Flavell RA**, Denkers EY. p38 MAPK autophosphorylation drives macrophage IL-12 production during intracellular infection. J. Immunol. 174:4178-4184 (2005).

575. Li H, Cuartas E, Cui W, Choi Y, Crawford T, Ke HZ, Kobayashi K, **Flavell RA**, Vignery A. IL-1 receptor-associated kinase M is a central regulator of osteoclast differentiation and activation. J. Exp. Med. 201:1169-1177 (2005). PMC2213136

576. Wan YY, **Flavell RA**. Identifying Foxp3 expressing suppressor T cells with a bi-cistronic reporter. Proc. Natl. Acad. Sci. USA 102:5126-5131 (2005). PMC556008

577. Brancho D, Ventura J-J, Jaeschke A, Doran B, **Flavell RA**, Davis RJ. Role of MLK3 in the regulation of MAP kinase signaling cascades. Molec. Cell Biol. 25:3670-3681 (2005). PMC1084312

578. Mehal WZ, Sheikh SZ, Gorelik L, **Flavell RA**. TGF-β signaling regulates CD8+ T cell responses to high- and low-affinity TCR interactions. Int. Immunol. 17:531-538 (2005).

579. Aoki CA, Borchers AT, Li M, **Flavell RA**, Bowlus CL, Ansari AA, Gershwin ME.
Transforming growth factor β (TGF-β) and autoimmunity. (Review) Autoimmunity Reviews, 4:450-459 (2005).

580. Jaeschke A, Rincón M, Doran B, Reilly J, Neuberg D, Greiner DL, Shultz LD, Rossini AA, **Flavell RA**, Davis RJ.
Disruption of the *Mapk9* gene reduces destructive insulitis and diabetes in a mouse model of type 1 diabetes. Proc. Natl. Acad. Sci. USA 102:6931-6935 (2005). PMC1100789

581. Laouar Y, Sutterwala FS, Gorelik L, **Flavell RA**.
Transforming growth factor-β controls T helper type 1 cell development through regulation of natural killer cell interferon-γ. Nat. Immunol. 6:600-607 (2005).

582. Jimi E, Phillips RJ, Rincon M, Voll R, Karasuyama H, **Flavell R**, Ghosh S.
Activation of NF-κB promotes the transition of large, CD43+ pre-B cells to small, CD43- pre-B cells. Intl. Immunol. 17:815-825 (2005).

583. Fernandez-Cabezudo M, Ullah A, **Flavell RA**, al-Ramadi BK.
Evidence for the requirement for CD40-CD154 interactions in resistance to infections with attenuated *Salmonella.* J. Endocrin. Res. 11:395-399 (2005).

584. Abonia JP, Austen KF, Rollins BJ, Joshi SK, **Flavell RA**, Kuziel WA, Koni PA, Gurish MF.
Constitutive homing of mast cell progenitors to the intestine depends on autologous expression of the chemokine receptor CXCR2. Blood 105:4308-4313 (2005). PMC1895025

585. Spilianakis CG, Laliota M, Town T, Lee GR, **Flavell RA**.
Interchromosomal associations between alternatively expressed loci. Nature 435:637-645 (2005).

586. Kimberly WT, Zheng JB, Town T, **Flavell RA**, Selkoe DJ.
Physiological regulation of the APP signaling domain by c-Jun N-terminal kinase JNK3 during neuronal differentiation. J. Neurosci. 25:5533-5543 (2005).

587. Li Y , Schwabe RF, DeVries-Seimon T, Yao PM, Gerbod-Giannone M-C, Tall AR, Davis RJ, **Flavell R**, Brenner DA, Tabas I.
Free cholesterol-loaded macrophages are an abundant source of tumor necrosis factor- and Interleukin-6. J. Cell Biol. 280:21763-21772 (2005).

588. Yarovinsky F, Zhang D, Andersen J, Bannenberg GL, Serhan C, Hayden MS, Hieny S. Sutterwala F, **Flavell RA**, Ghosh S, Sher A.
TLR11 activation of dendritic cells by a protozoan profilin-like protein. Science 308:1626-1629 (2005).

589. Zheng T, Kang MJ, Crothers K, Zhu Z, Liu W, Lee CG, Chapman HA, Homer RJ, Aldous D, DeSanctis G, Graupe M, Underwood S, **Flavell RA**, Schmidt JA, Elias JA.
Role of cathepsin S-dependent epithelial cell apoptosis in gamma interferon-induced alveolar remodeling and pulmonary emphysema. J. Immunol. 174:8106-8115 (2005).

590. Shen T-L, Park A, Alcaraz A, Peng X, Jang I, Koni P, **Flavell RA**, Gu H, Guan J-L.
Conditional knockout of focal adhesion kinase in endothelial cells reveals its role in angiogenesis and vascular development in late embryogenesis. J. Cell Biol. 169:941-952 (2005). PMC2171636

591. Eynon EE, Zenewicz LA, **Flavell RA**.
Preview: Sugar-coated regulation of T cells. Cell 122:2-4 (2005).

592. Christensen SR, Kashgarian M, Alexopoulou L, **Flavell RA**, Akira S, Shlomchik MJ.
Toll-like receptor 9 controls anti-DNA autoantibody production in murine lupus. J. Exp. Med. 202:321-331 (2005). PMC2212997

593. Town T, Tan J, **Flavell RA**, Mullan M.
T-Cells in Alzheimer disease. NeuroMolec. Med. 7:255-264 (2005).

594. Zandy AJ, Lakhani S, Zheng T, **Flavell RA**, Bassnett S.
Role of the executioner caspases during lens development. J. Biol. Chem. 34:30263-30272 (2005).

595. Kabir AMN, Cao X, Gorog DA, Tanno M, Bassi R, Bellahcene M, Quinlan RA, Davis RJ, **Flavell RA**, Shattock MJ, Marber MS
Antimycin A induced cardioprotection is dependent on pre-ischaemic p38-MAPK activation but independent of MKK3. J. Mol. Cell Cardiol. 39 709-717 (2005).

596. DeVries-Seimon T, Li Y, Yao PM, Stone E, Wang Y, Davis RJ, **Flavell R**, Tabas I.
Cholesterol-induced macrophage apoptosis requires ER stress pathways and engagement of the type A scavenger receptor J. Cell Biol. 171:61-73 (2005).

597. Lau CM, Broughton C, Tabor AS, Akira S, **Flavell RA**, Mamula MJ, Christensen SR, Shlomchik MJ, Viglianti GA, Rifkin IR, Marshak-Rothstein A.
RNA-associated autoantigens activate B cells by combined B cell antigen receptor/Toll-like receptor 7 engagement. J. Exp. Med. 202:1171-1177 (2005). PMC2213226

598. Gao Y, Tao J, Li MO, Zhang D, Chi H, Henegariu O, Kaech S, Davis RJ, **Flavell RA**, Yin Z.
JNK1 is essential for CD8+ T cell-mediated tumor immune surveillance. J. Immunol. 175:5783-5789 (2005).

599. Liu L, Tran E, Zhao Y, Huang Y, **Flavell RA**, Lu B.
GADD45β and GADD45γ are critical for regulating autoimmunity. J. Exp. Med. 202:1341-1348 (2005).

600. Spilianakis CG, Lee GR, **Flavell RA**.
Commentary: Twisting the Th1/Th2 immune response by RXR: Lessons from a genetic approach. Eur. J. Immunol. 35:3400-3404 (2005).

601. Ijiri K, Zerbini LF, Peng H, Correa RG, Lu B, Walsh N, Zhao Y, Taniguchi N, Huang XL, Otu H, Wang H, Wang JF, Komiya S, Ducy P, Rahman MU, Flavell RA, Gravallese EM, Oettgen P, Libermann TA, Goldring MB.
A novel role for GADD45beta as a mediator of MMP-13 gene expression during chondrocyte terminal differentiation. J Biol Chem. Nov 18;280(46):38544-55 (2005).

602. Jones E, **Flavell RA**
Distal enhancer elements transcribe intergenic RNA in the IL-10 family gene cluster. J. Immunol. 175:7437-7446 (2005).

603. al-Ramadi BK, Fernandez-Cabezudo MJ, Ullah A, El-Hasasna H, **Flavell RA**.
CD154 is essential for protective immunity in experimental Salmonella infection: Evidence for a dial role in innate and adaptive immune responses. J. Immunol. 176:496-506 (2006).

604. Millet I, Wong FS, Gurr W, Zawalich W, Green EA, **Flavell RA**, Sherwin RS.
Targeted expression of the anti-apoptotic gene CrmA to NOD pancreatic islets protects from autoimmune diabetes. J. Autoimmunity 26:7-15 (2006).

605. Wohlfert EA, Gorelik L, Mittler R, **Flavell RA**, Clark RB.
Cutting Edge: Deficiency in the E3 ubiquitin ligase Cbl-b results in a multi-functional defect in T cell TGF-β sensitivity *in vitro* and *in vivo*. J. Immunol. 176:1316-1320 (2006).

606. Ait-Oufella H, Salomon BH, Potteaux S, Robertson A-KL, Gourdy P, Zoll J, Merval R, Esposito B, Cohen JL, Fisson S, Flavell RA, Hansson GK, Klatzmann D, Tedgui A, Mallat Z.
Natural regulatory T cells control the development of atherosclerosis in mice. Nat. Med. (2006).

607. Town T, Jeng D, Alexopoulou L, Tan J, **Flavell RA**.
Microglia recognize double-stranded RNA via Toll-like receptor 3. J. Immunol. 176:3804-3812 (2006).

608. Rudd BD, Smit JJ, Berlin AA, Alexopoulou L, **Flavell RA**, Lukacs NW.
Deletion of TLR3 alters the pulmonary immune environment and mucus production during RSV infection. J. Immunol. 176 1937-1942 (2006).

609. Lakhani SA, Masud AA, Kuida K, Porter GA Jr, Booth CJ, Mehal WZ, Inayat I, **Flavell RA**.
Caspases 3 and 7: Key mediators of mitochondrial events of apoptosis. Science 311:847-851 (2006).

610. Chi H, Barry SP, Roth R, Wu JJ, Jones EA, Bennett AM, **Flavell RA**.
Dynamic regulation of pro- and anti-inflammatory cytokines by MAPK phosphatase 1 (MKP-1) in innate immune responses. Proc. Natl. Acad. Sci. USA 103:2274-2279 (2006). PMC1413743

611. Buch T, Polic B, Clausen BE, Alferink J, Weiss S, Akilli O, Chang C-H, **Flavell RA**, Jonjic S, Waisman A, Förster I.
MHC class II expression through a hitherto unknown pathway supports T helper cell dependent immune responses: Implications for MHC class II delivery. Blood 107:1434-1444 (2006).

612. Querec T, Bennouna S, Alkan S, Laouar Y, Gorden K, **Flavell R**, Akira S, Ahmed R, Pulendran B.
Yellow fever vaccine YF-17D activates multiple dendritic cell subsets through TLR2, 7, 8 and 9 to stimulate polyvalent immunity. J. Exp. Med. 203:413-424 (2006).

613. Zamboni DS, Kobayashi K, Kohlsdorf T, Ogura Y, Long EM, Vance RE, Kuida K, **Flavell RA**, Dietrich WF, Roy CR.
Birc1e (Naip5) regulation of caspase-1 function restricts *Legionella* growth in macrophages. Nat. Immunol. 7:318-325 (2006).

614. Sutterwala F, Ogura Y, Szczepanik M, Lara-Tejero M, Lichtenberger GS, Grant E, Bertin J, Coyle AE, Galan J, Askenase P, **Flavell RA**.
Critical role for NALP3/CIAS1/Cryopyrin in innate and adaptive immunity through its regulation of caspase-1. Immunity 24:317-327 (2006).

615. Li MO, **Flavell RA**.
TGF-β, T-cell tolerance and immunotherapy of autoimmune diseases and cancer. Expert. Rev. Clin. Immunol. 2:257-265 (2006).

616. Mitchell JE, Cvetanovic M, Tibrewal N, Patel V, Colamonici OR, Li MO, **Flavell RA**, Levine JS, Birge RB, Ucker DS.
The presumptive phosphatidylserine receptor is dispensable for innate anti-inflammatory recognition and clearance of apoptotic cells. J. Biol. Chem. 281:5718-5725 (2006).

617. Ventura J-J, Hübner A, Zhang C, **Flavell RA**, Shokat KM, Davis RJ.
Chemical genetic analysis of the time course of signal transduction by JNK. Molec. Cell 21:701-710 (2006).

618. Lee GR, Kim ST, Spilianakis CG, Fields PE, **Flavell RA**.
T helper cell differentiation. Regulation by *cis* elements and epigenetics. Immunity 24:369-379 (2006).

619. Li MO, Wan YY, Sanjabi S, Robertson A-KL, **Flavell RA**.
Transforming growth factor-β regulation of immune responses. Annu. Rev. Immunol. 24:99-146 (2006).

620. Kriegel MA, Li MO, Sanjabi S, Wan YY, **Flavell RA**.
Transforming growth factor-β: Recent advances on its role in immune tolerance. Curr. Rheumatol. Rep. 8:138-144 (2006).

621. Pan Q, Kravchenko V, Katz A, Huang S, Ii M, Mathison JC, Kobayashi K, **Flavell RA**, Schreiber RD, Goeddel D, Ulevitch R.
NF- B inducing kinase (NIK) regulates selected gene expression in the Nod2 signaling pathway. Infect Immun. 74:2121-2127 (2006). PMC1418900

622. Inoue T, Boyle DL, Corr M, Hammaker D, Davis RJ, **Flavell RA**, Firestein GS.
MKK3 is a pivotal pathway regulating p38 activation in inflammatory arthritis. Proc. Natl. Acad. Sci. USA. 103:5484-5489 (2006). PMC1459381

623. Spilianakis CG, **Flavell RA**.
Molecular Biology: Managing associations between different chromosomes. Science 312:207-208 (2006).

624. Wu W, Misra RS, Russell JQ, **Flavell** RA, Rincón M, and Budd RC.
Proteolytic regulation of NFATc2 and NFAT activity by caspase-3**.** J. Biol. Chem.. 281:10682-10690 (2006).

625. Du W, Wong FS, Li MO, Peng J, Qi H, **Flavell RA**, Sherwin R, Wen L.
TGF-β signaling is required for the function of insulin-reactive T regulatory cells. J. Clin. Invest. 116:1360-1370 (2006). PMC1451206

626. Matalova E, Sharpe PT, Lakhani SA, Roth KA, **Flavell RA**, Setkova J, Misek I, Tucker AS.
Molar tooth development in caspase-3 deficient mice. Int. J. Develop. Biol. 50:491-497 (2006).

627. Ma B, Blackburn MR, Lee CG, Homer RJ, Liu W, **Flavell RA**, Boyden L, Lifton RP, Elias JA.
Adenosine metabolism and murine strain-specific IL-4-induced inflammation, emphysema and fibrosis. J. Clin. Invest. 116:1274-83 (2006). PMC1451205

628. Doran B, Gherbesi N, Hendricks G, **Flavell RA,** Davis RJ, Gangwani L.
Deficiency of the zinc finger protein ZPR1 causes neurodegeneration. Proc. Natl. Acad. Sci. USA 103:7471-7475 (2006). PMC1464363

629. Gitlin L, Barchet W, Gilfillan S, Cella M, Beutler B, **Flavell RA**, Diamond MS, Colonna M.
Essential role of mda-5 in type I IFN responses to polyriboinosinic:polyribocytidylic acid and encephalomyocarditis picornavirus. Proc. Natl. Acad. Sci. USA 103:8459-8464 (2006). PMC1464000

630. Le Goffic R, Balloy V, Lagranderie M, Alexopoulou L, Escriou N, **Flavell R**, Chignard M, Si-Tahar M.
Detrimental contribution of the Toll-like receptor (TLR)-3 to influenza A virus-induced acute pneumonia. PLoS Pathogens 2:526-535 (2006).

631. Lara-Tejero M, Sutterwala FS, Ogura Y, Grant EP, Bertin J, Coyle AJ, **Flavell RA**, Galan JE. Brief Definitive Report: Role of the caspase-1 inflammasome in *Salmonella typhimurium* pathogenesis. J. Exp. Med. 203:1407-1412 (2006). PMC2118315

632. Canaan A, Yu X, Booth CJ, Lian J, Lazar I, Gamfi SL, Castille K, Kohya N, Nakayama Y, Liu Y-C, Eynon E, **Flavell R**, Weissman SM. FAT10-diubiquitin-like protein-deficient mice exhibit minimal phenotypic differences. Molec. Cell. Biol. 26:5180-5189 (2006). PMC1489174

633. Wan Y, Chi H, Xie M, Schneider MD, **Flavell RA**. The kinase TAK1 integrates antigen and cytokine receptor signaling for T cell development, survival and function. Nat. Immunol. 7:851-858 (2006).

634. Wan YY, **Flavell RA**. The roles for cytokines in the generation and maintenance of regulatory T cells. Immunol. Rev. 212:114-130 (2006).

635. Sutterwala FS, Ogura Y, Zamboni DS, Roy CR, **Flavell RA**. NALP3: a key player in caspae-1 activation. J. Endotoxin Res. 12:251-256 (2006).

636. Oertelt S, Lian Z-X, Cheng C-M, Chuang Y-H, Padgett KA, He X-S, Ridgway WM, Ansari AA, Coppel RL, Li MO, **Flavell RA**, Kronenberg M, Mackay IR, Gershwin ME. Anti-mitochondrial antibodies and primary biliary cirrhosis in TGF-β receptor II dominant-negative mice. J. Immunol. 177:1655-1660 (2006).

637. Bellahcene M, Jacquet S, Cao XB, Tanno M, Haworth RS, Layland J, Kabir AM, Gaestel M, Davis RJ, **Flavell RA**, Shah AM, Avkiran M, Marber MS. Activation of p38 mitogen-activated protein kinase contributes to the early cardiodepressant action of tumor necrosis factor. J. Am. Coll. Cardiol. 48:545-555 (2006).

638. Feuillet V, Medjane S, Mondor I. Demaria O. Pagni PP, Galan JE, **Flavell RA**, Alexopoulou L. Involvement of TLR5 in the recognition of flagellated bacteria. Proc. Natl. Acad. Sci. USA 103:12487-12492 (2006). PMC1567905

639. Ogura Y, Sutterwala FS, **Flavell RA**. Mini Review: The inflammasome: First line of the immune response to cell stress. Cell 126:659-662 (2006).

640. Christensen SR, Shupe J, Nickerson K, Kashgarian M, **Flavell RA**, Shlomchik MJ. Toll-like receptor 7 and TLR9 dictate autoantibody specificity and have opposing inflammatory and regulatory roles in a murine model of Lupus. Immunity 25:417-428 (2006).

641. Li M, Sanjabi S, **Flavell RA**. Transforming growth factor-β controls development, homeostasis, and tolerance of T cells by regulatory T cell-dependent and –independent mechanisms. Immunity 25:455-471 (2006).

642. Deng JC, Cheng G, Newstead MW, Zeng X, Kobayashi K, **Flavell RA**, Standiford TJ. Sepsis-induced suppression of lung innate immunity is mediated by IRAK-M. J. Clin. Invest. 116:2532-2542 (2006). PMC1550278

643. Abonia JP, Hallgren J, Jones T, Shi T, Xu Y, Koni PA, **Flavell RA**, Boyce J, Austen KF, Gurish MF. Alpha-4 integrins and VCAM-1, but not MAdCAM-1, are essential for recruitment of mast cell progenitors to the inflamed lung. Blood 108:1588-1594 (2006). PMC1895513

644. Tran EH, Azuma Y-T, Chen M, Weston C, Davis RJ, **Flavell RA**.
Inactivation of JNK1 enhances innate IL-10 production and dampens autoimmune inflammation in the brain. Proc. Natl. Acad. Sci. USA. 103:13451-13456 (2006). PMC1569184

645. Jaeschke A, Karasarides M, Ventura J-J, Ehrhardt A, Zhang C, **Flavell RA**, Shokat KM, Davis RJ.
JNK2 is a positive regulator of the cJun transcription factor. Molec. Cell 23:899-911 (2006).

646. Lalioti MD, Zhang J, Volkman HM, Kahle KT, Hoffmann KE, Toka HR, Nelson-Williams C, Ellison DH, **Flavell RA**, Booth CJ, Lu Y, Geller DS, Lifton RP.
Wnk4 controls blood pressure and potassium homeostasis via regulation of mass and activity of the distal convoluted tubule. Nat. Genetics 38:1124-1132 (2006).

647. Kim SV, Mehal WZ, Dong X, Heinrich V, Pypaert M, Mellman I, Dembo M, Mooseker MS, Wu D, **Flavell RA**.
Modulation of cell adhesion and motility in the immune system by Myo1f. Science 314:136-139 (2006).

648. Badou A, Jha MK, Matza D, Mehal W, Freichel M, Flockerzi V, **Flavell RA**.
Critical role for the regulatory subunits of Cav channels in T lymphocyte function. Proc. Natl. Acad. Sci. USA 103:15529-15534 (2006). PMC1622857

649. Wang R, Town T, Gokarn V, **Flavell RA**, Chandawarkar RY.
HSP70 enhances macrophage phagocytosis by interaction with lipid raft-associated TLR-7 and upregulating p38 MAPK and PI3K pathways. J. Surg. Res. 136:58-69 (2006).

650. Veldhoen M, Hocking RJ, **Flavell RA**, Stockinger B.
Signals mediated by transforming growth factor-β initiate autoimmune encephalomyelitis, but chronic inflammation is needed to sustain disease. Nat. Immunol. 11:1151-1156 (2006).

651. Gyrd-Hansen M, Farkas T, Fehrenbacher N, Bastholm L, Høyer-Hansen M, Elling F, Wallach D, **Flavell R**, Kroemer G, Nylandsted J, Jäättelä M.
Apoptosome-independent activation of lysosomal cell death pathway by caspase-9. Molec. Cell. Biol. 26:7880-7891 (2006). PMC1636747

652. Kamanaka M, Kim ST, Wan YY, Sutterwala FS, Lara-Tejero M, Galán JE, Harhaj E, **Flavell RA**.
Expression of Interleukin-10 in intestinal lymphocytes detected by an Interleukin-10 reporter knockin *tiger* mouse. Immunity 25:941-952 (2006).

653. Luo P, Reed BD, Tsang TC, Harris DT, **Flavell RA**.
A self-augmenting gene expression cassette for enhanced and sustained transgene expression in the presence of proinflammatory cytokines. DNA Cell Biol. 25:659-667 (2006).

654. Sarkisian MR, Bartley CM, Chi H, Nakamura F, Hashimoto-Torii K, Torii M, **Flavell RA**, Rakic P.
MEKK4 signaling regulates filamin expression and neuronal migration. Neuron 52:789-801 (2006). PMC1876745

655. Girgenrath M, Weng S, Kostek, CA, Browning B, Wang M, Brown SAN, Winkles JA, Michaelson JS, Allaire N, Schneider P, Scott ML, Hsu Y-m, Yagita H, **Flavell RA**, Miller JB, Burkly LC, Zheng TS.
TWEAK, via its receptor FN14, is a novel regulator of mesenchymal progenitor cells and skeletal muscle regeneration. EMBO J. 25:5826-5839 (2006). PMC1698888

656. Temann U-A, Laouar Y, Eynon E, Homer R, **Flavell RA**.
IL-9 leads to airway inflammation by inducing IL-13 expression in airway epithelial cells. Int. Immunol. 19:1-10 (2007).

657. Hardarson HS, Baker JS, Yang Z, Huang C-H, Bowles NE, Alexopoulou L, Li N, **Flavell RA**, Vallejo JG.
Toll-like receptor 3 is an essential component of the innate stress response to virus-induced cardiac injury. AJP-Heart and Circulatory Physiology 292:H251-H258 (2007).

658. Wan YY, **Flavell RA**.
Regulatory T-cell functions are subverted and converted owing to attenuated Foxp3 expression. Nature 445:766-770 (2007). PMC2647629

659. Jankovic D, Kullberg MC, Feng CG, Goldszmid RS, Collazo CM, Wilson M, Wynn T, Kamanaka M, **Flavell RA**, Sher A.
Conventional T-bet+ Foxp3- Th1 cells are the major source of host-protective regulatory IL-10 during intracellular protozoan infection. J. Exp. Med. 204:273-283 (2007). PMC2118735

660. Bai F, Town T, Pradhan D, Cox J, Ashish, Ledizet M, Anderson JF, **Flavell RA**, Krueger JK, Koski RA, Fikrig E.
Antiviral peptides targeting the West Nile Virus envelope protein. J. Virol. 81:2047-2055 (2007). PMC1797586

661. Brunelle JK, Shroff EH, Perlman H, Strasser A, Moraes CT, **Flavell RA**, Danial NN, Keith B, Thompson CB, Chandel NS.
Loss of Mcl-1 protein and inhibition of electron transport chain together induce anoxic cell death. Molec. Cell. Biol. 27:1222-1235 (2007). PMC1800715

662. Chen L, He W, Kim ST, Tao J, Gao Y, Chi H, Intlekofer AM, Harvey B, Reiner SL, Yin Z, **Flavell RA**, Craft J.
Epigenetic and transcriptional programs lead to default IFN-γ production by $\gamma\delta$ T cells. J. Immunol. 178:2730-2736 (2007).

663. Tao J, Gao Y, Li MO, He W, Chen L, Harvev B, Davis RJ, **Flavell RA**, Yin Z.
JNK2 negatively regulates CD8+ T cell effector function and anti-tumor immune response. Eur. J. Immunol. 37:818-829 (2007).

664. Takai Y, Matikainen T, Jurisicova A, Kim MR, Trbovich AM, Nakagawa T, Lemmers B, **Flavell R**, Hakem R, Yuan J, Tilly JL, Perez GI.
Caspase-12 compensates for lack of caspase-2 and caspase-3 in female germ cells. Apoptosis 12:791-800 (2007).

665. Gowen BB, Wong M-H, Jung K-H, Sanders AB, Mitchell WM, Alexopoulou L, **Flavell RA**, Sidwell RW.
TLR3 is essential for the induction of protective immunity against punta toro virus infection by the dsRNA, Poly(I:C_{12}U), but not Poly(I:C): Differential recognition of synthetic dsRNA molecules. J. Immunol. 178:5200-5208 (2007).

666. Ferguson SM, Brasnjo G, Hayashi M, Wolfel M, Collesi C, Giovedi S, Raimondi A, Gong L-W, Ariel P, Paradise S, O'Toole E, **Flavell RA**, Cremona O, Miesenböck G, Ryan TA, De Camilli P.
A selective activity-dependent requirement for dynamin 1 in synaptic vesicle endocytosis. Science 316:570574 (2007).

667. Li MO, Wan YY, **Flavell RA**.
T cell produced transforming growth factor-β1 controls T cell tolerance and opposingly regulates Th1 and Th17 cell differentiation. Immunity 26:579-591 (2007).

668. Pirianov G, Brywe KG, Mallard C, Edwards AD, **Flavell R**, Hagberg H, Mehmet H.
Deletion of the c-Jun N-terminal kinase 3 gene protects neonatal mice against cerebral hypoxic-ischaemic injury. J. Cerebral Blood Flow Metab. 27:1022-1032 (2007).

669. Masud A, Mohapatra A, Lakhani SA, Ferrandino A, Hakem R, **Flavell RA**.
Endoplasmic reticulum stress-induced death of mouse embryonic fibroblasts requires the intrinsic pathway of apoptosis. J. Biol. Chem. 282:14132-14139 (2007).

670. Fazzari P, Penachioni J, Gianola S, Rossi F, Eickholt BJ, Maina F, Alexopoulou L, Sottile A, Comoglio PM, **Flavell RA**, Tamagnone L.
PlexinB1 plays a redundant role during mouse development and in tumour angiogenesis. Biomed Central (2007). PMC1890291

671. Chi H, Bennett AM, **Flavell RA**.
Mitogen-activated protein kinase phosphatase 1 (MKP-1), a critical regulator of innate immune responses. J. Organ Dysfunction 3:-72-81 (2007).

672. Clark JE, **Flavell RA**, Faircloth ME, Davis RJ, Heads RJ Marber MS.
Post-infarction remodeling is independent of mitogen-activated protein kinase kinase (MKK3). Cardiovasc. Res. 74:466-470 (2007).

673. Amsen D, Antov A, Jankovic D, Sher A, Radtke F, Souabni A, Busslinger M, McCright B, Gridley T, **Flavell RA**.
Direct regulation of *Gata3* expression determines the T helper differentiation potential of Notch. Immunity 27:89-99 (2007). PMC2062505

674. Spilianakis C, **Flavell RA**
News and Views: Epigenetic regulation of IFN-γ gene expression. Nat. Immunol. 8:681-683 (2007).

675. Wan YY, **Flavell RA**.
Regulatory T cells, Transforming Growth Factor-β and immune suppression. Proc. Am. Thorac. Soc. 4:271-276 (2007).

676. Kasugai K, Watson SJ, **Flavell RA**, Davis RJ, Todisco A.
Crucial role of c-Jun NH2-terminal kinase 1 (JNK1) in cold-restraint stress-induced gastric lesions in mice. Dig. Dis. Sci. 52:1698-105 (2007).

677. Tong C, Yin Z, Song Z, Dockendorff A, Huang C. Mariadason J, **Flavell R**, Davis R, Auginlight LH, Yang W.
c-Jun NH_2-terminal kinase 1 plays a critical role in intestinal homeostasis and tumor suppression. Am. J. Pathol. 171:297-303 (2007). PMC1941582

678. Henderson NC, Pollock KJ, Frew J, Mackinnon AC, **Flavell RA**, Davis RJ, Sethi T, Simpson KJ.
Critical role of c-jun (NH2) terminal kinase in paracetamol-induced acute liver failure. Gut 56:982-990 (2007).

679. Pan Q, Mathison J, Fearns C, Kranchenko V, Da Silva Correia J, Hoffman H, Kobayashi K, Bertin J, Grant E, Coyle A, Sutterwala FS, Ogura Y, **Flavell RA**, Ulevitch R.
MDP induced interleukin-1β processing requires Nod2 and CIAS1/NALP3. J. Leukocyte Biol. 82:177-183 (2007).

680. Chi H, **Flavell RA**.
News and Views: Immunology: Sensing the enemy within. Nature 448:423-424 (2007).

681. Sutterwala FS, Ogura Y, **Flavell RA**.
The inflammasome in pathogen recognition and inflammation. J. Leukocyte Biol. 82:259-264 (2007).

682. Pedra JHF, Tao J, Sutterwala FS, Sukumaran B, Berliner N, Bockenstedt LK, **Flavell RA**, Yin Z, Fikrig E.
IL-12/23p40-dependent clearance of *Anaplasma phagocytophilum* in the murine model of human anaplasmosis. FEMS Immunol. Med. Microbiol. 50:401-410 (2007).

683. Lim JH, Stirling B, Derry J, Koga T, Jono H, Woo C-H, Xu H, Bourne P, Ha U-H, Ishinaga H, Xu H, Andalibi A, Feng X-H, Zhu H, Huang Y, Zhang W, Weng X, Yan C, Yin Z, Briles DE, Davis RJ, **Flavell RA**, Li J-D.
Tumor suppressor CYLD regulates acute lung injury in lethal *Streptococcus pneumoniae* infections. Immunity 27:349-360 (2007)

684. Willingham SB, Bertstralh DT, O'Connor W, Morrison AC, Taxman DJ, Duncan JA, Barnoy S, Venkatesan MM, **Flavell RA**, Deshmukh M, Hoffman HM, Ting JP-Y.
Microbial pathogen-induced necrotic cell death mediated by the inflammasome components CIAS1/cryoporin/NLRP3 and ASC. Cell Host Microbe. 2:147-159 (2007). PMC2083260

685. Wrzesinski SH, Wan YY, **Flavell RA**.
CCR Focus: Transforming growth factor-β and the immune response: Implications for anticancer therapy. Clin. Cancer Res. 13:5262-5270 (2007)

686. Kennedy NJ, Martin G, Ehrhardt AG, Cavanagh-Kyros J, Kuan C-Y, Rakic P, **Flavell RA**, Treistman SN, Davis RJ.
Requirement of JIP scaffold proteins for NMDA-mediated signal transduction. Genes Devel. 21:2336-2346 (2007). PMC1973147

687. Pedra JHF, Sutterwala FS, Sukumaran B, Ogura Y, Qian F, Montgomery RR, **Flavell RA**, Fikrig E.
ASC/PYCARD and caspase-1 regulate the IL-18/IFN-γ axis during *Anaplasma phagocytophilum* infection. J. Immunol. 179:4783-4791 (2007).

688. Das M, Jiang F, Sluss HK, Zhang C, Shokat KM, **Flavell RA**, Davis RJ.
Suppression of p53-dependent senescence by the JNK signal transduction pathway. Proc. Natl. Acad. Sci. USA 104:15759-15764 (2007). PMC2000443

689. Wilson MS, Elnekave E, Mentink-Kane MM, Hodges MG, Pesce JT, Ramalingam TR, Thompson RW, Kamanaka M, **Flavell RA**, Keane-Myers A, Cheever AW, Wynn TA.
IL-13Ra2 and IL-10 coordinately suppress airway inflammation, airway-hyperreactivity and fibrosis in mice. J. Clin. Invest. 117: 2941-2951 (2007). PMC1978425

690. Moh A, Iwamoto Y, Chai G-X, Zhang S-M, Kano A, Yang DD, Zhang W, Wang J, Jacoby JJ, Gao B, **Flavell RA**, Fu X-Y.
Role of STAT3 in liver regeneration: survival, DNA, synthesis, inflammatory reaction and liver mass recovery. Lab. Invest. 87:1018-1028 (2007).

691. Kim ST, Fields PE, **Flavell RA**.
Demethylation of a specific hypersensitive site in the Th2 locus control region. Proc. Natl. Acad. Sci. USA 104:17052-17057 (2007). PMC2040439

692. Zenewicz LA, Yancopoulos GD, Valenzuela DM, Murphy AJ, Karow M, **Flavell RA**.
IL-22 but not IL-17 provides protection to hepatocytes during acute liver inflammation. Immunity 27:647-659 (2007). PMC2149911

693. Kaplan DH, Li MO, Jenison MC, Shlomchik WD, **Flavell RA**, Shlomchik MJ.
Brief Definitive Report: Autocrine/paracrine TGF-β1 is required for the development of epidermal Langerhans cells. J. Exp. Med. 204:2545-2552 (2007). PMC2118472

694. Thomas IJ, Petrich de Marquesini LM, Chapman S, Ravanan R, Smith RM, Guerder S, **Flavell RA**, Wraith DC, Wen L, Wong FS.
CD86 has sustained costimulatory effects on CD8 T cells. J. Immunol. 179:5936-5946 (2007).

695. Watanabe A, Hashmi A, Gomes DA, Town T, Badou A, **Flavell RA**, Mehal WZ.
Apoptotic hepatocyte DNA inhibits hepatic stellate cell chemotaxis via Toll-like receptor 9. Hepatology 46:1509-1518 (2007). PMID:17705260

696. Menon S, Chi H, Zhang H, Deng X, **Flavell R**, Wei N.
COP9 signalosome subunit 8 (Csn8) is essential for peripheral T cell homeostasis and antigen receptor-induced entry into the cell cycle from quiescence. Nat. Immunol. 8:1236-1245 (2007).

697. Ma FY, Tesch GH, **Flavell RA**, Davis RJ, Nikolic-Paterson DJ.
MKK3-p38 signaling promotes apoptosis and the early inflammatory response in the obstructed mouse kidney. Am. J. Physiol: Renal Physiol. 293:F1556-F1563 (2007).

698. Deane JA, Pisitkun P, Barrett RS, Feigenbaum L, Town T, Ward JM, **Flavell RA**, Bolland S.
Control of Toll-like receptor7 expression is essential to restrict autoimmunity and dendritic cell proliferation. Immunity 27:801-10 (2007).

699. Cameron JS, Alexopoulou L, **Flavell RA**, Strittmatter S, Vartanian T.
Toll-like receptor 3 is a potent negative regulator of axonal growth in mammals. J. Neurosci. 27:13033-13041 (2007).

700. Wan YY, **Flavell RA**.
"Yin-Yang" functions of transforming growth factor-β and T regulatory cells in immune regulation. Immunol. Rev. 220:199-213 (2007). PMC2614905

701. Sutterwala FS, Mijares LA, Li L, Ogura Y, Kazmierczak BI, **Flavell RA**.
Immune recognition of Pseudomonas aeruginosa mediated by the IPAF/NLRC4 inflammasome. J. Exp. Med. 204:3235-3245 (2007). PMC2150987

702. Awasthi A, Carrier Y, Peron JP, Bettelli E, Kamanaka M, **Flavell RA,** Kuchroo VK, Oukka M, Weiner HL.
A dominant function for interleukin 27 in generating interleukin 10-producing anti-inflammatory T cells. Nat Immunol. 8(12):1380-9. (2007) Dec. PMID: 17994022.

703. Efthimiou P, **Flavell RA,** Furlan A, Gasbarrini G, Gava A, Koné-Paut I, Manna R, Punzi L, Sutterwala FS, Touitou I, Doria A.
Autoinflammatory syndromes and infections: pathogenetic and clinical implications. Clin Exp Rheumatol. Jan-Feb;26(1 Suppl 48):S53-61. (Review) 2008. PubMed PMID: 18570755.

704. Keramaris E, Callaghan SM, Davis RJ, **Flavell RA**, Slack RS, Park DS.
Required roles of BAX and JNKs in central and peripheral nervous system death of retinoblastoma deficient mice. J. Biol. Chem. 283:405-415 (2008).

705. Sutterwala FS, **Flavell RA**.
News & Views: Cascade into clarity. Nature 451:254-255 (2008).

706. Matza D, Badou A, Kobayashi, KS, Goldsmith-Pestana K, Masuda Y, Komuro A, McMahon-Pratt D, Marchesi VT, **Flavell RA**.

A scaffold protein, AHNAK1 is required for calcium signaling during T cell activation. Immunity 28:64-74 (2008). PMC2350190

707. Chuang Y-H, Lian Z-X, Yang G-X, Shu S-A, Moritoki Y, Ridgway WM, Ansari AA, Kronenberg M, **Flavell RA**, Gao B, Gershwin ME.
Natural killer T cells exacerbate liver injury in a transforming growth factor β receptor II dominant-negative mouse model of biliary cirrhosis. Hepatology 47:571-580 (2008).

708. Pedra JHF, Mattner J, Tao J, Kerfoot SM, Davis RJ, **Flavell RA**, Askenase PW, Yin Z, Fikrig E.
c-Jun NH_2-terminal kinase inhibits gamma interferon production during *Anaplasma phagocytophilum* infection. Infect. Immun. 76:308-316 (2008). PMC2223674

709. Hall HT, Wilhelm MT, Saibil SD, Mak TW, **Flavell RA**, Ohashi PS.
RIP2 contributes to Nod signaling but is not essential for T cell proliferation, T helper differentiation or TLR responses. Eur. J. Immunol. 38:64-72 (2008).

710. Town T, Breunig J, Sarkisian MR, Spilianakis C, Ayoub AE, Liu X, Ferrandino A, Gallagher A, Li MO, Rakic P, **Flavell RA**.
The S*tumpy* gene is required for mammalian ciliogenesis. Proc. Natl. Acad. Sci. USA 105:2853-2858 (2008). PMC2268549

711. Couper KN, Blount DG, Wilson MS, Hafalla JC, Belkaid Y, **Flavell RA**, de Souza JB, Riley EM.
IL-10 from CD4+CD25-Foxp3-CD127-adaptive regulatory T cells modulates parasite clearance and pathology during malaria infection. PLoS Pathogens (2008). PMC2291447

712. Ou R, Zhang M, Lei H, **Flavell RA**, Koni PA, Moskophidis D.
Regulation of immune response and inflammatory reactions against viral infection by VCAM1. J. Virol. 82:2952-2965 (2008). PMC2258983

713. Pardo J, Wallich R, Martin P, Urban C, Rongvaux A, **Flavell RA**, Mullbacher A, Borner C, Simon MM.
Granzyme B induced cell death exerted by ex vivo CTL: discriminating requirements for cell death and some of its signs. Cell Death Differ. 15:567-579 (2008).

714. Hawiger D, Tran E, Du W, Booth CJ, Wen L, Dong C, **Flavell RA**.
ICOS mediates the development of insulin-dependent diabetes mellitus in non-obese diabetic mice. J. Immunol. 180:3140-3147 (2008). PMID: 18292537

715. Kang SS, Bloom SM, Norian LA, Geske MJ, **Flavell RA**, Stappenbeck TS, Allen PM.
An antibiotic-responsive mouse model of fulminant ulcerative colitis. PLoS Med 5:e41. (2008).

716. Chi H, **Flavell RA**.
Innate recognition of non-self nucleic acids. Genome Biol. 9:211 (2008). PMC2397494

717. Fan TM, Kranz DM, **Flavell RA**, Roy EJ.
Costimulatory strength influences the differential effects of transforming growth factor beta1 for the generation of CD8+ regulatory T cells. Mol Immunol.;45(10):2937-50. (2008).

718. Mohanty S, Town T, Yagi T, Scheidig C, Kwan KY, Allore HG, **Flavell RA**, Shaw AC.
Defective p53 engagement after the induction of DNA damage in cells deficient in topoisomerase 3 . Proc. Natl. Acad. Sci. USA 105:5063-5068 (2008). PMC2278186

719. Rojo JM, Pini E, Ojeda G, Bello R, Dong C, **Flavell RA**, Dianzani U, Portoles P.
ICOS+CD4+T lymphocytes inhibit polyclonal T cell activation "*in vitro*" and attenuate autoimmune encephalomyelitis "*in vivo*". Intl. Immunol. 20:577-589 (2008).

720. Li MO, **Flavell RA**.
Contextual regulation of inflammation: A duet by transforming growth factor-β and interleukin-10. (Review) Immunity 28:468-476 (2008).

721. Williams A, **Flavell RA**.
Commentary: The role of CTCF in regulating nuclear organization. J. Exp. Med. 205:747-750 (2008). PMC2292214

722. Rosenzweig HL, Martin TM, Jann MM, Planck SR, Davey MP, **Flavell, RA**, Rosenbaum JT
NOD2, the gene responsible for familial granulomatous uveitis, is essential in a mouse model of muramyl dieptide-induced uveitis. Invest. Opthalmol. Visual Sci. 49:1518-1524 (2008). PMC2430189

723. Fukuda K, Tesch GH, Yap FY, Forbes JM, **Flavell RA**, Davis RJ, Nikolic-Paterson DJ.
MKK3 signalling plays an essential role in leukocyte-mediated pancreatic injury in the multiple low-dose streptozotocin model. Lab. Invest. 88:398-407 (2008).

724. Reig N, Jiang A, Couture R, Sutterwala FS, Ogura Y, **Flavell RA**, Mellman I, van der Goot FG.
Maturation modulates caspase-1 independent responses of dendritic cells to anthrax lethal toxin. Cell. Microbiol. 10:1190-1207 (2008). PMC2861895

725. Jacquet S, Nishino Y, Kumphune S, Sicard P, Clark JE, Kobayashi K, **Flavell RA**, Eickhoff J, Cotten M, Marber MS.
The role of RIP2 in p38 MAPK activation in the stressed heart. J. Biol. Chem. 283:11964-11971 (2008).

726. Pappu BP, Borodovsky A, Zheng T, Yang X, Wu P, Dong X, Weng S, Browning B, Scott M, Ma L, Su L, Tian Q, Schneider P, **Flavell RA**, Dong C, Burkly LC.
TL1A-DR3 interaction regulates Th17 cell function and Th17-mediated autoimmune disease. J. Exp. Med. 205:1049-1062 (2008). PMC2373838

727. Rathinam C, Gu H, **Flavell RA**.
The E3 ubiquitin ligase c-Cbl restricts self-renewal of hematopoietic stem cells. Genes Dev. 22:992-997 (2008). PMC2335331

728. Hübner A, Barrett T, **Flavell RA**, Davis RJ.
Multisite phosphorylation regulates Bim stability and apoptotic activity. Molec. Cell 30:415-425 (2008). PMC2453504

729. Singh A, Carson WF, Secor ER, Guernsey LA, **Flavell RA**, Clark RB, Thrall RS, Schramm CM.
Regulatory role of B cells in a murine model of allergic airway disease. J. Immunol. 180:7318-7326 (2008). PMC2576522

730. Lafon M, Megret F, Meuth SG, Romero MLV, Lafage M, Chen L, Alexopoulou L, **Flavell RA**, Prehaud C, Wiendl H.
Detrimental contribution of the immuno-inhibitor B7-H1 to rabies virus encephalitis. J. Immunol. 180:7506-7515 (2008).

731. Fujita J, Crane AM, Souza MK, Dejosez M, Kyba M, **Flavell RA**, Thomson JA, Zwaka TP.
Caspase activity mediates the differentiation of embryonic stem cells. Cell Stem Cell 2:595-601 (2008). PMC2494585

732. Eisenbarth SC, Colegio OR, O'Connor W Jr., Sutterwala FS, **Flavell RA**.
Crucial role for the Nalp3 inflammasome in the immunostimulatory properties of aluminum adjuvants. Nature 453:1122-1126 (2008).

733. Town T, Laouar Y, Pittenger C, Mori T, Tan J, Duman RS, **Flavell RA**.
Blocking TGF-β-Smad2/3 innate immune signaling mitigates Alzheimer-like pathology. Nat. Med. 14:681-687 (2008). PMC2649699

734. Cassel SL, Sutterwala FS, **Flavell RA**.
Preview: The tiny conductor: Immune regulation via commensal organisms. Cell Host & Microbe 3:340-341 (2008).

735. Yang G-X, Lian Z-X, Chuang Y-H, Moritoki Y, Lan RY, Wakabayashi K, Ansari AA, **Flavell RA**, Ridgway WM, Coppel RL, Tsuneyama K, Mackay IR, Gershwin ME.
Adoptive transfer of CD8+ T cells from transforming growth factor beta receptor type II (dominant negative form) induces autoimmune cholangitis in mice. Hepatology 47:1974-1982 (2008). PMC2749317

736. Kim SV, **Flavell RA**.
Myosin I: from yeast to human (Review). Cell. Molec. Life Sci. 65:2128-2137 (2008).

737. Cassel SL, Eisenbarth SC, Iyer SS, Sadler JJ, Colegio OR, Rothman PB, **Flavell RA***, Sutterwala FS*.
The Nalp3 inflammasome is essential for the development of silicosis. Proc. Natl. Acad. Sci. USA 105:9035-9040 (2008). *Equal contributors. PMC2449360.

738. Rosenzweig HL, Martin TM, Planck SR, Galster K, Jan MM, Davey MP, Kobayashi K, **Flavell RA**, Rosenbaum JT.
Activation of NOD2 *in vivo* induces IL-1 beta production in the eye via caspase-1 but results in ocular inflammation independently of IL-1 signaling. J. Leuk. Biol. 84:529-536 (2008). PMC2493069

739. Wang S, Welte T, McGargill M, Town T, Thompson J, Anderson JF, **Flavell RA**, Fikrig E, Hedrick SM, Wang T.
Drak2 contributes to West Nile virus entry into the brain and lethal encephalitis. J. Immunol. 181:2084-2091 (2008). PMC2494872

740. Laouar Y, Town T, Jeng D, Tran E, Wan Y, Kuchroo VK, **Flavell RA**.
TGF-β signaling in dendritic cells is a prerequisite for the control of autoimmune encephalomyelitis. Proc. Natl. Acad. Sci. USA. 105:10865-10870 (2008). PMC2504840

741. Li MO, **Flavell RA**.
TGF-β: A master of all T cell trades. (Review). Cell 134:392-404 (2008).

742. Breunig JJ, Sarkisian MR, Arellano JI, Morozov YM, Ayoub A, Sojitra S, Wang B, **Flavell RA**, Rakic P, Town T.
Primary cilia regulate hippocampal neurogenesis by mediating sonic hedgehog signaling. Proc. Natl. Acad. Sci. USA 105:13127-13132 (2008). PMC2529104

743. Sutterwala FS, **Flavell RA**.
NLRC4/IPAF: a CARD carrying member of the NLR family. Clin. Immunol. (2008). PMC2630383

744. Filippi CM, Juedes AE, Oldham JE, Ling E, Togher L, Peng Y, **Flavell RA**, von Herrath MG.
TGF-β suppresses the activation of CD8+ T-cells when naïve but promotes their survival and

function once antigen experienced. A two-faced impact on autoimmunity. Diabetes 57:2684-2692 (2008). PMC2551678

745. Chi H, **Flavell RA**.
Perspective: Acetylation of MKP-1 and the control of inflammation. Science Signaling 1:1-4 (2008). PMC2613485

746. Wan YY, **Flavell RA**.
TGF-β and regulatory T cell in immunity and autoimmunity. J. Clin. Immunol 28:647-659 (2008). PMC2837280

747. Shin S, Case CL, Archer KA, Nogueira CV, Kobayashi KS, **Flavell RA**, Roy CR, Zamboni DS.
Type IV secretion-dependent activation of host MAP kinases induces an increased proinflammatory cytokine response to *Legionella pneumophila*. PLoS Pathog 4(11):e1000220. doi:10.1371/journal.ppat.1000220 (2009). PMC2582680

748. Rathinam C, **Flavell RA**.
Commentary: The hematopoiesis paradigm: Clarity or ambiguity? Blood 112:3534-3535 (2008). PMC2572785

749. Brown MR, Gazula V-R, Spillianakis CG, **Flavell RA**, von Hehn CAA, Bhattacharjee A, Kaczmarek LK.
Amino-termini isoforms of the Slack K+ channel have fast or slow gating kinetics and are regulated by alternative promoters. J. Physiol. 586:5161-5179 (2008). PMC2652154

750. Watanabe C, Shu GL, Zheng TS, **Flavell RA**, Clark EA.
Caspase-6 regulates B cell activation and differentiation into plasma cells. J. Immunol. 181:6810-6819 (2008). PMC2728076

751. Stephens TA, Nikoopour E, Rider BJ, Leon-Ponte M, Chau TA, Mikolajczak S, Chaturvedi P, Lee-Chan E, **Flavell RA**, Haeryfar SMM, Madrenas J, Singh B.
Dendritic cell differentiation induced by a self-peptide derived from apolipoprotein E. J. Immunol. 181:6859-6871 (2008).

752. Divangahi M, Mostowy S, Coulombe F, Kozak R, Guillot L, Veyrier F, Kobayashi KS, **Flavell RA**, Gros P, Behr MA.
NOD2-deficient mice have impaired resistance to *Mycobacterium tuberculosis* infection through defective innate and adaptive immunity. J. Immunol. 181:7157-7165 (2008).

753. Odegard JM, Marks BR, DiPlacido LD, Poholek AC, Kono DH, Dong C, **Flavell RA**, Craft J.
ICOS-dependent extrafollicular helper T cells elicit IgG production via IL-21 in systemic autoimmunity. J. Exp. Med. 205:1872-1886 (2008). PMC2585848

754. Zenewicz LA, **Flavell RA**.
Mini-Review: Interleukin-22 and inflammation: Leukin' through a glass onion. Eur. J. Immunol. 38:3265-3268 (2008).

755. Ries V, Silva RM, Oo TF, Cheng H-C, Rzhetskaya M, Kholodilov N, **Flavell RA**, Kuan C-Y, Rakic P, Burke RE.
JNK2 and JNK3 combined are essential for apoptosis in dopamine neurons of the substantia nigra, but are not required for axon degeneration. J. Neurochem. 107 1578-1588 (2008). PMC2632584

756. Murray LA, Knight DA, McAlonan L, Argentieri R, Joshi A, Shaheen F, Cunningham M, Alexopoulou L, **Flavell RA**, Sarisky RT, Hogaboam CM.

Deleterious role of TLR3 during hyperoxia-induced acute lung injury. Am. J. Respir. Crit. Care. Med. 178:1227-1237 (2008).

757. Wong FS, Hu C. Du W, Alexopoulou L, **Flavell RA**, Wen L.
The role of Toll like receptors 3 and 9 in the development of autoimmune diabetes in NOD mice. Ann. NY Acad Sci 1150:146-148 (2008).

758. Zenewicz LA, Yancopoulos GD, Valenzuela DM, Murphy AJ, Stevens S. **Flavell RA**.
Innate and adaptive interleukin-22 protects mice from inflammatory bowel disease. Immunity 29:947-957 (2008) PMC3269819

759. Krendel M, Kim SV, Willinger T, Want G, Kashgarian M, **Flavell RA**, Mooseker MS.
Disruption of Myosin 1e promotes podocyte injury. J. Am. Soc. Nephrol. 20:86-94 (2009). PMC2615733

760. Brochard V, Combadière B, Prigent A, Laouar Y, Perrin A, Beray-Berthat V, Bonduelle O, Alvarez-Fischer D, Callebert J, Launay J, Duyckaerts C, **Flavell RA**, Hirsch EC, Hunot S.
Infiltration of CD4 lymphocytes into the brain contributes to neurodegeneration in a mouse model of Parkinson disease. J. Clin. Invest. 119:182-192 (2009). PMC2613467

761. Rabinovich PM, Komarovskaya ME, Wrzesinski SH, Alderman J, Budak-Aldogan T, Karpikov A, Guo H, **Flavell RA**, Cheung N-K, Weissman SM, Bahceci E.
Chimeric receptor mRNA transfection as a tool to generate antineoplastic lymphocytes. Human Gene Therapy 20:51-61 (2009). PMC2855249

762. Das M, Sabio G, Jiang F, Rincón M, **Flavell RA**, Davis RJ
Induction of hepatitis by JNK-mediated expression of TNF-α. Cell 136:249-260 (2009).

763. Ichinohe T, Lee HK. Ogura Y, **Flavell RA**, Iwasaki A.
Brief Definitive Report: Inflammasome recognition of influenza virus is essential for adaptive immune responses. J. Exp. Med. 206:79-87 (2009). PMC2626661

764. Amsen D, Antov A, **Flavell RA**.
The different faces of Notch in T-helper-cell differentiation. Nat. Rev. Immunol. 9:116-124 Review (2009).

765. Town T, Bai F, Wang T, Kaplan AT, Anderson JF, **Flavell RA**, Fikrig E.
Tlr7 mitigates lethal West Nile encephalitis by affecting interleukin 23-dependent immune cell infiltration and homing. Immunity 30:242-253 (2009). PMC2707901

766. Lim AKH, Nikolic-Paterson DJ, Ma FY, Ozols E, Thomas MC, **Flavell RA**, Davis RJ, Tesch GH.
Role of MKK3-p38 MAPK signaling in the development of type 2 diabetes and renal injury in obese db/db mice. Diabetologia 52:347-358 (2009).

767. Imaeda AB, Watanabe Z, Sohail MA, Mahmood S, Mohamadnejad M, Sutterwala FS, **Flavell RA**, Mehal WZ.
Acetaminophen induced hepatotoxicity is dependent on TLR9 and the NALP3 inflammasome. J. Clin. Invest. 119:305-314 (2009). PMC2631294

768. Ma DK, Jang M-H, Guo JU, Kitabatake Y, Chang M-l, Pow-anpongkul N, **Flavell RA**, Lu B, Ming G-l, Song H.
Neuronal activity-induced Gadd45β promotes epigenetic DNA demethylation and adult neurogenesis. Science 323:1074-1077 (2009). PMC2726986

769. Diebold SS, Schulz O, Alexopoulou L, Leitner WW, **Flavell RA**, Reis e Sousa C.
Role of TLR3 in the immunogenicity of replicon plasmid-based vaccines. Gene Therapy 16:359-366 (2009). PMC2655288

770. Moritoki Y, Zhang W, Tsuneyame K, Yoshida K, Wakabatashi K, Yang G-X, Bowlus C, Ridgway WM, Ueno Y, Ansari AA, Coppel RL, Mackay IR, **Flavell RA**, Gershwin ME, Lian Z-X.
B cells suppress the inflammatory response in a mouse model of primary biliary cirrhosis. Gastroenterology 136:1037-1047 (2009).

771. Ouyang W, Beckett O, **Flavell R**, Li M.
An essential role of the Forkhead-Box transcription factor Foxo1 in control of T cell homeostasis and tolerance. Immunity 30:358-371 (2009). PMC2692529

772. Amsen D, Spilianakis CG, **Flavell RA**.
How are Th1 and Th2 effector cells made? Curr. Opin. Immunol. 21:153-160 (2009). PMC2695256

773. Rosenzweig HL, Jann MM, Glant TT, Martin TM, Planck SR, van Eden W, van Kooten PJS, **Flavell RA**, Kobayashi K, Rosenbaum JT, Davey MP.
Activation of nucleotide oligomerization domain two exacerbates a murine model of proteoglycan-induced arthritis. J. Leuk. Biol. 85:711-718 (2009). PMC2718807

774. Steenblock ER, Wrzesinski SH, **Flavell RA**, Fahmy TM.
Antigen presentation on artificial acellular substrates: Modular systems for flexible, adaptable immunotherapy. Exp. Opin. Biol. Therapy 9:451-464 (2009).

775. Odegard JM, DiPlacido LD, Greenwald L, Kashgarian M, Kono DH, Dong C, **Flavell R**, Craft J.
ICOS controls effector function, but not trafficking receptor expression, of kidney-infiltrating effector T cells in murine lupus. J. Immunol. 182:4076-4084 (2009). PMC2746004

776. Huber S, Stahl FR, Schrader J, Luth S, Presser K, Carambia A, **Flavell RA**, Werner S, Blessing M, Herkel J, Schramm C.
Activin A promotes the TGF-β-induced conversion of CD4+CD25- T cells into Foxp3+ induced regulatory T cells. J. Immunol. 182:4633-4640 (2009).

777. Hartl D, He CH, Koller B, DaSilva CA, Kobayashi Y, Lee CG, **Flavell RA**, Elias JA.
Acidic mammalian chitinase regulates epithelial cell apoptosis via a chitinolytic-independent mechanism. J. Immunol. 182:5098-5106 (2009). PMC2666938

778. Mikkelsen SS, Jensen SB, Chiliveru S, Melchjorsen J, Julkunen I, Gaestel M, Simon J, Arthur C, **Flavell RA**, Ghosh S, Paludan SR.
RIG-1-mediated activation of p38 MAPK is essential for viral induction of interferon and activation of dendritic cells: Dependence on TRAF2 and TAK1. J. Biol. Chem. 284:10774-1782 (2009). PMC2667765

779. Eisenbarth SC, **Flavell RA**.
Innate instruction of adaptive immunity revisited: the inflammasome. (Review) EMBO Molec. Med. 1:92-98 (2009).

780. Zenewicz LA, Antov A, **Flavell RA**.
CD4 T cell differentiation and inflammatory bowel disease. Trends Molec. Med. 5:199-207 (2009).

781. Cone RE, Chattopadhyay S, Sharafieh R, Lemire Y, O'Rourke J, **Flavell RA**, Clark RB.
T cell sensitivity to TGF-β is required for the effector function but not the generation of splenic CD8+

regulatory T cells induced via the injection of antigen into the anterior chamber. Intl. Immunol. 21:567-574 (2009). PMC2675031

782. Lee CG, Hartl D, Lee GR, Koller B, Matsuura H, DaSilva CA, Sohn MH, Cohn L, Homer RJ, Kozhich AA, Humbles A, Kearley J, Coyle A, Chupp G, Reed J, **Flavell RA**, Elias JA.
Role of breast regression protein 39 (BRP-39)/chitinase 3-like-1 in Th2 and IL-13-induced tissue responses and apoptosis. J. Exp. Med. 206:1149-1166 (2009). PMC2715037

783. Demento SL, Eisenbarth SC, Foellmer HG, Platt C, Caplan MJ, Saltzman WM, Mellman I, Ledizet M, Fikrig E, **Flavell RA**, Fahmy TM.
Inflammasome-activating nanoparticles as modular systems for optimizing vaccine efficacy. Vaccine 27:3013-3021 (2009). PMC2695996

784. Massa V, Savery D, Ybot-Gonzalez P, Ferraro E, Rongvaux A, Cecconi F, **Flavell RA**, Green NDE, Copp AJ.
Apoptosis is not required for mammalian neural tube closure. Proc. Natl. Acad. Sci. USA 106:8233-8238 (2009). PMC2688898

785. Wan YY and **Flavell RA**.
Review: How diverse – CD4 effector T cells and their functions. J. Molec. Cell Biol. doi:10.1093/jmcb/mjp001 (2009). PMC2841031

786. O'Connor W, Kamanaka, Booth CJ, Town T, M, Nakae S, Iwakura Y, Kolls JK, **Flavell RA**.
A protective role for IL-17A in T cell-mediated intestinal inflammation. Nat. Immunol. 10:603-609 (2009). PMC2709990

787. Watanabe A, Sohail MA, Gomes DA, Hashmi A, Nagata J, Sutterwala FS, Mahmood S, Jhandier MN, Shi Y, **Flavell RA**, Mehal WZ.
Inflammasome-mediated activation of hepatic stellate cells. Am. J. Physiol. Gastrointest Liver Physiol. 296:G1248-G1257 (2009). PMC2697939

788. Stowell NC, Seideman J, Raymond HA, Smalley KA, Lamb RJ, Egenolf DD, Bugelski PJ, Murray LA, Marsters PA, Bunting RA, **Flavell RA**, Alexopoulou L, San Mateo LR, Griswold DE, Sarisky RT, Mbow ML, Das AM.
Long-term activation of TLR3 by Poly(I:C) induces inflammation and impairs lung function in mice. Resp. Res. 10:43 doi:10.1186/1465-9921-10-43 (2009). PMC2694181

789. Matza D, Badou A, Jha MK, Willinger T, Antov A, Sanjabi S, Kobayashi KS, Marchesi VT, **Flavell RA**.
Requirement for AHNAK1 mediated calcium signaling during T lymphocyte cytolysis. Proc. Natl. Acad. Sci. USA 106:9785-9790 (2009). PMC2701053

790. Tirapu I, Giquel B, Alexopoulou L, Uematsu S, **Flavell R**, Akira S, Diebold SS.
PolyI:C-induced reduction in uptake of soluble antigen is independent of dendritic cell activation. Intl. Immunol. 21:871-879 (2009). PMC2699490

791. Liu G, Burns S, Huang G, Boyd K, Proia RL, **Flavell RA**, Chi H.
The receptor $S1P_1$ overrides regulatory T cell-mediated immune suppression through AKT-mTOR. Science 10:769-777 (2009). PMC2732340

792. Ince MN, Elliott DE, Setiawan T, Metwali A, Blum A, Chen H-L, Urban JF, **Flavell RA**, Weinstock JV.
Role of T cell TGF-β signaling in intestinal cytokine responses and helminthic immune modulation. Eur. J. Immunol. 39:1870-1878 (2009). PMC2882993

793. Kamanaka M, Rainbow D, Schuster-Gossler K, Eynon EE, Chervonsky AV, Wicker LS, **Flavell RA**. Amino acid polymorphisms altering the glycosylation of IL-2 do not protect from type 1 diabetes in the NOD mouse. Proc. Natl. Acad. Sci. USA 106:11236-11240 (2009). PMC2700154

794. Sicard P, Jacquet S, Kobayashi KS, **Flavell RA**, Marber MS. Pharmacological postconditioning effect of muramyl dipeptide is mediated through RIP2 and TAK1. Cardiovas. Res. 83:277-284 (2009).

795. Yoshizawa T, Hammaker D, Boyle DL, Corr M, **Flavell RA**, Davis R, Schett G, Firestein GS. Role of MAPK kinase 6 in inflammatory arthritis: distinct mechanism of action and function in inflammation and cytokine expression. J. Immunol. 183:1360-1367 (2009). PMC2744479

796. Di Paolo NC, Miao EA, Iwakura Y, Murali-Krishna K, Aderem A, **Flavell RA**, Papayannopoulou T, Shayakhmetov DM
Virus binding to a plasma membrane receptor triggers interleukin-1α-mediated proinflammatory macrophage response *in vivo*. Immunity 31:110-121 (2009). PMC2759279

797. Sanjabi S, Mosaheb MM, **Flavell RA.**
Opposing effects of TGF-β and IL-15 cytokines control the number of short-lived effector CD8+ T cells. Immunity 31:131-144 (2009). PMC2765785

798. Legrand N, Ploss A, Balling R, Becker PB, Borsotti C, Brezillon N, Debarry J, deJong Y, Deng H, Di Santo JP, Eisenbarth S, Eynon E, **Flavell RA**, Guzman CA, Huntington N, Kremsdorf D, Manns MP, Manz MG, Mention J-J, Ott M, Rathinam C, Rice CM, Rongvaux A, Stevens S, Spits H, Strick-Marchand H, Takizawa H, van Lent AU, Wang C, Weijer K, Willinger T, Ziegler P.
Humanized mice for modeling human infectious disease: Challenges, progress and outlook. Cell Host Microbe 6:5-9 (2009).

799. Galluzzi L, Abrams J, Alnemri ES, Ashkenazi A, Baehrecke EH, Bazan NG, Borner C, Brenner C, Castedo M, Cidlowski JA, Ciechanover A, Cohen GM, De Laurenzi V, De Maria R, Deshmukh M, Dynlacht BD, El-Deiry WS, **Flavell RA**, Fulda S, Garrido C, Golstein P, Green DR, Gronemeyer H, Hengartner M, Ichijo H, Jaattela M, Kepp O, Klionsky DJ, Knight RA, Kumar S, Levine B, Lipton SA, Lugli E, Madeo F, Malorni W, Marine J-CW, Martin SJ, Medema JP,Melino G, Morselli E, Ngata S, Nicotera P, Nunez G, Oren M, Penninger J. Peter ME, Piacentini M, Rabinovich G, Rubinsztein DC, Scorrano L, Simun H-U, Tschopp J, Tsujimoto Y, Vandenabeele P, Vitale I, Vousden KH, Youle RJ, Yuan J, Zhivotovsky B, Kroemer G.
Guidelines for the use and interpretation of assays for monitoring cell death in higher eukaryotes. Cell Death Differentiation 16:1093-1107 (2009). PMC2757140

800. Sanjabi S, Zenewicz LA, Kamanaka M, **Flavell RA**.
Anti-inflammatory and pro-inflammatory roles of TGF-β, IL-10, and IL-22 in immunity and autoimmunity. Curr. Opin. Pharmacol. 9:447-453 (2009). PMC2755239

801. Bruno VM, Hanneman S, Lara-Tejero M, **Flavell RA**, Kleinstein SH, Galán JE.
Salmonella Typhimurium type III secretion effectors stimulate innate immune responses in intestinal epithelial cells. PLoS Pathogens 5:e1000538. doe:10.1371/journal.ppat.1000538 (2009). PMC2742890

802. Shio MT, Eisenbarth SC, Savaria M, Vinet AF, Bellemare M-J, Harder KW, Sutterwala FS, Bohle DS, Descoteaux A, Flavel RA.
Malarial hemozoin activates the NLRP3 inflammasome through Lyn and Syk kinases. PLoS Pathogens 5:e1000559 (2009) PMC2722371

803. Hawiger D, **Flavell RA**
News & Views: Regulatory T cells that become autoaggressive. Nat. Immunol. 10:938-939 (2009).

804. Matza D, **Flavell RA**.
Roles of Ca_v channels and AHNAK1 in T cells – The Beauty and the Beast. Immunol. Rev. 231:257-264 (2009).

805. Standen CL, Kennedy NJ, **Flavell RA**, Davis RJ.
Signal transduction cross-talk mediated by JIP and IRS scaffold protein complexes. Molec. Cell. Biol. 29:4831-4840 (2009). PMC2725725

806. Xiao X, Zhao P, Rodriguez-Pinto D, Qi D, Henegariu O, Alexopoulou L, **Flavell RA**, Wong FS, Wen L.
Inflammatory regulation by Toll-like receptor 3 in T cell-dependent acute hepatitis. J. Immunol. 183:3712-3719 (2009).

807. Kuroda E, Ho V, Antignano F, Hamilton M, Ruschmann J, Rauh MJ, Antov A, **Flavell RA**, Sly LM, Krystal G.
SHIP represses the generation of IL-3-induced M2 macrophages by inhibiting IL-4 production from Basophils. J. Immunol. 183:3652-3660 (2009).

808. Bogani D, Siggers P, Brixey R, Warr N, Beddow S, Edwards J, Williams D, Wilhelm D, Koopman P, **Flavell R**, Chi H, Ostrer H, Wells S, Cheeseman M, Greenfield A.
Loss of mitogen-activted protein kinase kinase kinase 4 (MAP3k4) reveals a requirement for MAPK signaling in mouse sex determination. PLoS Biology 7:e1000196 (2009). PMC2733150

809. Kriegel MA, Rathinam C, **Flavell RA**.
E3 ubiquitin ligase GRAIL controls primary T cell activation and oral tolerance. Proc. Natl. Acad. Sci. USA 106:16770-16775 (2009). PMC2757842

810. Bai F, Town T, Qian F, Wang P, Kamanaka M, Connolly TM, Gate D, Montgomery RR, **Flavell RA**, Fikrig E.
IL-10 signaling blockade controls murine West Nile virus infection. PLoS Pathogens 5:e1000610 (2009). PMC2749443

811. Marks BR, Nowyhed HN, Choi J-Y, Poholek A, Odegard J, **Flavell RA**, Craft J.
Thymic self-reactivity selects for Th17 cells that regulate peripheral inflammation. Nat. Immunol. 10:1125-1132 (2009). PMC2751862

812. Shilling RA, Clay BS, Tesciuba AG, Berry EL, Moore TV, Lu T, Bandukwala HS, Tong J, Weinstock JV, **Flavell RA**, Horan T, Yoshinaga SK, Welcher AA, Cannon JL, Sperling AI.
CD28 and ICOS play complementary non-overlapping roles in the development of Th2 immunity *in vivo*. Cell. Immunol. 259:177-184 (2009). PMC2748173

813. Qian F, Deng J, Welch EJ, Malik AB, **Flavell RA**, Dong C, Ye RD.
A non-redundant role for MKP5 in limiting ROS production and preventing LPS-induced vascular injury. EMBO J. 28:2896-2907 (2009). PMC2760111

814. Fikrig E, Narasimhan S, Neelakanta G, Pal U, Chen M, **Flavell RA**.
Toll-like receptors 1 and 2 heterodimers alter *Borrelia burgdorferi* gene expression in mice and ticks. J. Infect. Dis. 200:1331-1340 (2009). PMC2846271

815. Jha MK, Badou A, Meissner M, Freichel M, Flockerzi V, **Flavell RA**.
Defective survival and function of naïve CD8+ T lymphocytes in the absence of β3 regulatory subunit of Ca_v channels. Nat. Immunol. 10:1275-1282 (2009). PMC2785134

816. Bhowmick S. Singh A. **Flavell RA**, Clark RB, O'Rourke J, Cone RE.
The sympathetic nervous system modulates CD4+FoxP3+ regulatory T cells via a TGF-β dependent mechanism. J. Leukocyte Biol. 86:1275-1283 (2009). PMC2780915

817. Iyer SS, Pulskens WP, Sadler JJ, Butter LM, Teske GJ, Ulland T, Eisenbarth SC, Florquin S, **Flavell RA**, Leemans JC, Sutterwala FS.
Necrotic cells trigger a sterile inflammatory response through the Nlrp3 inflammasome. Proc. Natl. Acad. Sci. USA 106:20388-20393 (2009). PMC2787135

818. Ohno T, Oboki K, Kajiwara N, Morii E, Aozasa K, **Flavell RA**, Saito H, Nakae S.
Caspase-1, caspase-8 and calpain are dispensable for IL-33 secretion by macrophages. J. Immunol, 183:7890-7897 (2009).

819. Hübner A, Cavanagh-Kyros J, Rincon M, **Flavell RA**, Davis RJ.
Functional cooperation of the proapoptotic Bcl2-family proteins Bmf and Bim *in vivo*. Mol. Cell. Biol. 30:98-105 (2010). PMC2798311

820. Lee W-W, Kang S-W, Choi J, Lee S-H, Shah K, Eynon EE, **Flavell RA**, Kang I.
Regulating human Th17 cells via differential expression of IL-1 receptor. Blood 115:530-540 (2010). PMC2810985

821. Williams A, **Flavell RA**, Eisenbarth SC.
The role of NOD-like receptors in shaping adaptive immunity. Curr. Opin. Immunol. 22:34-40 (2010).

822. Silva GK, Gutierrez FRS, Guedes PMM, Horta VC, Cunha LD, Mineo TWP, Santiago-Silva J, Kobayashi K, **Flavell R**, Silva JS, Zamboni DS.
Cutting Edge: Nucleotide-binding oligomerization domain 1-dependent responses account for murine resistance against *Trypanosoma cruzi* infection. J. Immunol. 184:1148-1152 (2010).

823. Sanjabi S, **Flavell RA**.
Interaction between TGF-β and the common gamma chain cytokines during an inflammatory immune response. Cell Cycle 9:428-430 (2010). PMC2845397

824. Kinnebrew M, Ubeda C. Zenewicz LA, Smith N, **Flavell RA**, Pamer EG.
Bacterial flagellin stimulates Toll-like receptor 5-dependent defense against vancomycin-resistant Enterococcus infection. J. Infect. Dis. 201:534-543 (2010). PMC2811237

825. Sanjabi S, **Flavell RA**.
Overcoming the hurdles in using mouse genetic models that block TGF-β signaling. J. Immunol. Methods 353:111-114 (2010). PMC2845397

826. Zenewicz LA, Abraham C, **Flavell RA**, Cho JH.
Unraveling the genetics of autoimmunity. Cell 140:791-797 (2010).

827. Williams A, Spilianakis CG, **Flavell RA**.
Interchromosomal association and gene expression in trans. Trends Genet. 26:188-197 (2010). PMC2865229

828. Mayer-Barber KD, Barber DL, Shenderov K, White SD, Wilson MS, Cheever A, Kugler D, Hieny S, Caspar P, Nunez G, Schlueter D, **Flavell RA**, Sutterwala FS, Sher A.
Cutting Edge: Caspase-1 independent IL-1b production is critical for host resistance to *Myobacterium tuberculosis* and does not require TLR signaling in vivo. J. Immunol. 184:3326-3330 (2010).

829. Yamamoto Y, Moore R, **Flavell RA**, Lu B, Negishi M.
Nuclear receptor CAR represses TNFalpha-induced cell death by interacting with the anti-apoptotic GADD45B. PLoS One 5:e10121 (2010). PMC2853562

830. Ruschmann J, Ho V, Antignano F, Kuroda E, Lam V, Ibaraki M, Snyder K, Kim C, **Flavell RA**, Kawakami T, Sly L, Turhan AG, Krystal G.
Tyrosine phosphorylation of SHIP promotes its proteasomal degradation. Exp. Hematol. 38:392-402 (2010) [PubMed – indexed for MEDLINE]

831. Choi WS, Abel G, Klintworth H, **Flavell R**, Xia Z.
JNK3 mediates paraquate- and rotenone-induced dopaminergic neuron death. J. Neuropathol. & Exp. Neurol. 69:511-520 (2010) PMC3061491

832. Shi Y, Liu X-F, Zhuang Y, Zhang J-Y, Liu T, Yin Z, Wu C, Mao X-H, Jia K-R, Wang F-J, Guo H, **Flavell RA**, Zhao Z, Liu K-Y, Xiao B, Guo Y, Zhang W-J, Zhou W-Y, Guo G, Zou Q-M.
Helicobacter pylori-induced Th17 responses modulate Th1 cell responses, benefit bacterial growth and contribute to pathology in mice. J. Immunol. 184 5121-5129 (2010) [PubMed – indexed for MEDLINE]

833. Rathinam C, **Flavell RA**.
c-Cbl deficiency leads to diminished lymphocyte development and functions in an age-dependent manner. Proc. Natl. Acad. Sci. USA 107:8316-8321 (2010). PMC2889568

834. Ktistaki E, Garefalaki A, Williams A, Andrews SR, Bell DM, Foster KE, Spilianakis CG, **Flavell RA**, Kosyakova N, Trifonov V, Liehr T, Kioussis D.
CD8 locus nuclear dynamics during thymocyte development. J. Immunol. 184:5686-5695 (2010) [PubMed – indexed for MEDLINE]

835. Brodsky IE, Palm NW, Sadanand S, Ryndak MB, Sutterwala FS, **Flavell RA**, Bliska JB, Medzhitov R.
A *Yersinia* effector protein promotes virulence by preventing inflammasome recognition of the type III secretion system. Cell Host Microbe 7:376-387 (2010). PMC2883865

836. O'Connor W Jr., Zenewicz LA, **Flavell RA**.
Perspective. The dual nature of T_H17 cells: shifting focus to function. Nat. Immunol. 11:471-476 (2010).

837. Archer KA, Ader F, Kobayashi KS, **Flavell RA**, Roy CR.
Cooperation between multiple microbial pattern recognition systems is important for host protection against the intracellular pathogen *Legionella pneumophila*. Infect. Immun. 78:2477-2487 (2010). PMC2876572

838. Hubbard LLN, Ballinger MN, Thomas PE, Wilke CA, Standiford TJ, Kobayashi KS, **Flavell RA**, Moore BB.
A role for IRAK-M in PGE_2-induced immunosuppression post-bone marrow transplantation. J. Immunol. 184:6299-6308 (2010) [PubMed – indexed for MEDLINE]

839. Koh BH, Hwang SS, Kim JY, Lee W, Kang M-J, Lee CG, Park J-W, **Flavell RA**, Lee GR.
Th2 LCR is essential for regulation of Th2 cytokine genes and for pathogenesis of allergic asthma. Proc. Natl. Acad. Sci. USA 107:10614-10619 (2010). PMC2890814

840. Huber S, **Flavell RA**.
Preview: Checks and balances: IL-23 in the intestine. Immunity 33:150-152 (2010). PMC2951684

841. Jin C, **Flavell RA**.
News & Commentary: The missing link: how the inflammasome senses oxidative stress. Immunol Cell Biol. 88:510-512 (2010).

842. Zhang W, Tsuda M, Yang G-X, Tsuneyama K, Rong G, Ridgway WM, Ansari AA, **Flavell RA**, Coppel RL, Lian Z-X, Gershwin ME.
Deletion of Interleukin-6 in mice with the dominant negative transforming growth factor β receptor II improves colitis but exacerbates autoimmune cholangitis. Hepatology 52:215-22 (2010). PMC2936774

843. He W, Hao J, Dong S, Gao Y, Tao J, Chi H, **Flavell R**, O'Brien RL, Born WK, Craft J, Han J, Wang P, Zhao L, Wu J, Yin Z.
Naturally activated Vγ4 γδ T cells play a protective role in tumor immunity through expression of Eomesodermin. J. Immunol. 185:126-133 (2010)

844. **Flavell RA**, Sanjabi S, Wrzesinski SH, Licona-Limon P.
The polarization of immune cells in the tumour environment of TGFβ. Nat. Rev. Immunol. 10:554-567 (2010) PMC3885992

845. Jin C, **Flavell RA**
Molecular mechanism of NLRP3 inflammasome activation. J. Clin. Immunol. 30:628-631 (2010)

846. Hawiger D, Wan YY, Eynon EE, **Flavell RA**.
The transcription factor Hopx is required for regulatory T cell function in dendritic cell-mediated peripheral T cell unresponsiveness. Nat. Immunol. 11:962-968 (2010) PMC2943559.

847. Berglund M, Melgar S, Kobayashi KS, **Flavell RA**, Hornquist EH, Hultgren OH.
IL-1 receptor-associated kinase M downregulates DSS-induced colitis. Inflamm. Bowel Dis. 16:1778-1786 (2010).

848. Morel C, Standen CL, Jung DY, Gray S, Ong H, **Flavell RA**, Kim JK, Davis RJ.
Requirement of JIP1-mediated JNK activation for obesity-induced insulin resistance. Molec. Cell. Biol. 30:4616-4625 (2010). PMC2950523

849. Frutuoso MS, Hori JI, Pereira MS, Junior DSL, Sonego F, Kobayashi KS, **Flavell RA**, Cunha FQ, Zamboni DS.
The pattern recognition receptors Nod1 and Nod2 account for neutrophil recruitment to the lungs of mice infected with *Legionella pneumophila*. Microb. Infect. 12:819-27 (2010).

850. Demaria O, Pagni PP, Traub S, de Gassart A, Branzk N, Murphy AJ, Valenzuela DM, Yancopoulos GD, **Flavell RA**, Alexopoulou L.
TLR8-deficiency leads to autoimmunity in mice. J. Clin. Invest. 120:3651-3662 (2010) PMC2947223.

851. Rathinam C, Thien CB, **Flavell RA**, Langdon WY.
Myeloid leukemia development in c-Cbl RING finger mutant mice is dependent on FLT3 signaling. Cancer Cell 18:341-352 (2010).

852. Song J, Willinger T, Rongvaux A, Eynon EE, Stevens S, Manz MG, **Flavell RA**, Galan JE.
A mouse model for the human pathogen *Salmonella* Typhy. Cell Host Microbe 8:369-376 (2010). PMC2972545

853. Wang Y, Souabni A, **Flavell RA**, Wan YY.
An intrinsic mechanism predisposes Foxp3-expressing regulatory T cells to Th2 conversion in vivo. J. Immunol. 185:5983-5982 (2010) PMC2974034

854. Lievens D, Zernecke A, Seijkens T, Soehniein O, Beckers L, Munnix ICA, Wijnands E, Goossens P, van Kruchten R, Thevissen L, Boon L, **Flavell RA**, Noelle RJ, Gerdes N. Biessen EA, Daemen MJAP, Heemskerk JWM, Weber C, Lutgens E.
Platelet CD40L mediates thrombotic and inflammatory processes in atherosclerosis. Blood 116:4317-4327 (2010). PMC2993630

855. Hu B, Elinav E, Huber S, Booth CJ, Strowig T, Jin C, Eisenbarth SC, **Flavell RA**.
Inflammation-induced tumorogenesis in the colon is regulated by caspase-1 and NLRC4. Proc. Natl. Acad. Sci. USA 107:21635-21640 (2010). PMC3003083

856. Arnold IC, Lee JY, Amieva MR, Roers A, **Flavell RA**, Sparwasser T, Müller A.
Tolerance rather than immunity protects from *Helicobacter pylori* -induced gastric preneoplasia. Gastroenterology 140:199-209 (2011).

857. Bunting RA, Duffy KE, Lamb RJ, San Mateo LR, Smalley K, Raymond H, Liu X, Petley T, Fisher J, Beck H, **Flavell RA**, Alexopoulou L, Ward CK.
Novel antagonist antibody to TLR3 blocks Poly(I:C)-induced inflammation in vivo and in vitro. Cell. Immunol. 267:9-16 (2011).

858. Sayi A, Kohler E, Toller IM, **Flavell RA**, Müller W, Roers A, Müller A.
TLR-2-activated B cells suppress *Helicobacter*-induced preneoplastic gastric immunopathology by inducing T regulatory-1 cells. J. Immunol. 186:878-890 (2011).

859. Cole JE, Navin TJ, Cross AJ, Goddard ME, Alexopoulou L, Mitra AT, Davies AH, **Flavell RA**, Feldmann M, Monaco C.
Unexpected protective role for Toll-like receptor 3 in the arterial wall. Proc. Natl. Acad. Sci. USA 108:2372-2377 (2011) PMC3038746

860. Rongvaux A, Willinger T, Takizawa H, Rathinam C, Auerbach W, Murphy A, Valenzuela D, Yancopoulos G, Eynon EE, Stevens S, Manz MG, **Flavell RA**.
Human thrombopoietin knockin mice efficiently support human hematopoiesis *in vivo*. Proc. Natl. Acad. Sci. USA 108:2378-2383 (2011) PMC3038726

861. Willinger T, Rongvaux A, Takizawa H, Yancopoulos GD, Valenzuela DM, Murphy A, Auerbach W, Eynon EE, Stevens S, Manz M, **Flavell RA**.
Human IL-3/GM-CSF knock-in mice support human alveolar macrophage development and human immune responses in the lung. Proc. Natl. Acad. Sci. USA 108:2390-2395 (2011) PMC3038773

862. Andris F, Denanglaire S, Baus E, Rongvaux A, Steuve J, **Flavell RA**, Leo O.
Metabolic stress boosts humoral responses in vivo independently of inflammasome and inflammatory reaction. J. Immunol. 186:2245-2253 (2011) [PubMed – indexed for MEDLINE].

863. Zenewicz L, **Flavell RA**.
Recent advances in Interleukin-22 biology. Intl. Immunol. 23:159-163 (2011).

864. Kreuzaler PA, Li W, Byrne S, Poli V, **Flavell RA**, Ashton-Rickardt PG, Watson CJ.
Stat3 controls lysosomal mediated cell death *in vivo*. Nat. Cell Biol. 13:303-309 (2011).

865. Sun X, Wu Y, Chen B, Zhang Z, Zhou W, Tong Y, Yuan J, Xia K. Gronemeyer H, **Flavell RA**, Song W.
Regulator of calcineurin 1 (RCAN1) facilitates neuronal apoptosis through caspase 3 activation. J. Biol. Chem. 18:9049-9062 (2011) PMC3059004

866. Gutcher I, Donkor M, Ma Q, Rudensky AY, **Flavell RA**, Li MO.
Autocrine transforming growth factor-β1 promotes in vivo Th17 cell differentiation. Immunity 34:396-408 (2011).

867. Liu W, Zi M, Chi H, Jin J, Prehar S, Neyses L, Cartwright EJ, **Flavell RA**, Davis RJ, Wang X.
Deprivation of MKK7 in cardiomyocytes provokes heart failure in mice when exposed to pressure overload. J. Mol. Cell. Cardiol. 50:702-711 (2011).

868. Nel HJ, Hams E, Saunders SP, Mangan NE, Smith P, Atzberger A, **Flavell RA**, Akira S, McKenzie AN, Fallon PG.
Impaired basophil induction leads to an age-dependent innate defect in type 2 immunity during helminth infection in mice. J. Immunol. 186:4631-4639 (2011).

869. Wu Y, Xu J, Velazquez H, Wang P, Li G, Liu D, Sampaio-Maia B, Quelhas-Santos J, Russell K, Russell R, **Flavell RA**, Pestana M, Giordano F, Desir GV.
Renalase deficiency aggravates ischemic myocardial damage. Kidney Int. 79:853-860 (2010).

870. Mott KR, Gate D, Zandian M, Allen SJ, Ragasagi N, van Rooijen N, Chen, S, Arditi M, Rouse BT, **Flavell RA**, Town T, Ghiasi H.
Macrophage IL-12p70 signaling prevents HSV-1-induced CNS autoimmunity triggered by autoaggressive C4+ Tregs. Invest. Ophthalmol. Vis. Sci. 52:2321-333 (2011) PMC3080735

871. Huber S, Gagliani N, Esplugues E, O'Connor Jr W, Huber FJ, Chaudhry A, Kamanaka M, Kobayashi Y, Booth CJ, Rudensky AY, Roncarolo MG, Battaglia M, **Flavell RA**.
Th17 cells express interleukin-10 receptor and are controlled by Foxp3- and Foxp3+ regulatory CD4+ T cells in an interleukin-10 dependent manner. Immunity 34:554-565 (2011) PMC3113617

872. Rathinam C, Matesic LE, **Flavell RA**.
The E3 ligase Itch is a negative regulator of the homeostasis and function of hematopoietic stem cells. Nat. Immunol. 12:399-407 (2011).

873. Wen L, Green EA, Stratmann T, Gomis R, Eynon EE, **Flavell RA**, Mezquita JA, Mora C.
In vivo diabetogenic action of CD4+ T lymphocytes require Fas expression and is independent of IL-1 and IL-18. Eur. J. Immunol. 41:1344-1351 (2011) PMC3787861

874. Kamanaka M, Huber S, Zenewicz LA, Gagliani N, Rathinam C, O'Connor W, Wan YY, Nakae S, Iwakura Y, Hao L, **Flavell RA**.
Memory/effector ($CD45RB^{lo}$) CD4 T cells are controlled directly by IL-10 and cause IL-22 dependent intestinal pathology. J. Exp. Med. 208:1027-1040 (2011) PMC3092344

875. Carter NA, Vasconcellos R, Rosser EC, Tulone C, Munz-Suano A, Kamanaka M, Ehrenstein MR, **Flavell RA**, Mauri C.
Mice lacking endogenous IL-10-producing regulatory B cells develop exacerbated disease and present with increased frequency of Th1/Th17 but a decrease in regulatory T cells. J. Immunol. 186:5569-5579 (2011)

876. Elinav E, Strowig T, Henao-Mejia J, **Flavell RA**.
Regulation of the antimicrobial response by NLR proteins. Immunity 5: 665-679 (2011) May 27. PMID: 21616436

877. Elinav E, Strowig T, Kau AL, Henao-Mejia J, Thaiss CA, Booth CJ, Eisenbarth SC, Gordon JI, **Flavell RA**.
NLRP6 inflammasome is a regulator of the colonic microbial ecology and risk for colitis. Cell 145:745-757 (2011) May 27. PMC3140910

878. Weisser SB, McLarren KW, Voglmaier N, van Netten-Thomas CJ, Antov A, **Flavell RA**, Sly LM. Alternative activation of macrophages by IL-4 requires SHIP degradation. Eur. J. Immunol. 41:1742-1753 (2011)

879. Hu B, Elinav E, **Flavell RA**. Inflammasome-mediated suppression of inflammation-induced colorectal cancer progression is mediated by direct regulation of epithelial cell proliferation. Cell Cycle 10:1936-1939 (2011) Jun 15. PMC3276682

880. Willinger T, Rongvaux A, Strowig T, Manz MG **Flavell RA**. Improving human hemato-lymphoid-system mice by cytokine knock-in gene replacement. Trends in Immunol. 32:295-344 (2011) Jun 21. PMID: 21697012

881. Ather JL, Ckless K, Martin R, Foley KL, Suratt BT, Boyson JE, Fitzgerald KA, **Flavell RA**, Eisenbarth SC, Poynter ME. Serum amyloid A (SAA) activates the NLRP3 inflammasome and promotes TH17 allergic asthma in mice. J. Immunol. 187:64-73 (2011) PMC3119761

882. Hoque R, Sohail M, Malik A, Shah A, Barrat F, **Flavell RA**, Gorelick F, Husain S, Mehal W. TLR9 and the NLRP3 inflammasome link acinar cell death with inflammation in acute pancreatitis. Gastroenterol. 141:358-69 (2011) PMC3129497

883. Esplugues E, Huber S, Gagliani N, Hauser AE, Town T, Wan YY, O'Connor W, Rongvaux A, Van Rooijen N, Haberman AM, Iwakura Y, Kuchroo VK, Kolls JK, Bluestone JA, Herold, K, **Flavell RA**. Control of Th17 cells occurs in the small intestine. Nature 475:514-518 (2011) PMC3148838

884. Strowig T, Rongvaux A, Rathinam C, Takizawa H, Borsotti C, Philbrick W, Eynon E, Manz M, **Flavell RA**. Transgenic expression of human SIRPa in Rag2$^{-/-}$ $_{c}^{-/-}$ mice improves engraftment of human hematopoietic cells in humanized mice. Proc. Natl. Acad. Sci. USA 108:13218-13223 (2011) PMC3156175

885. Jin C, Frayssinet P, Pelker R, Cwirka D, Hu B, Vignery A, Eisenbarth S, **Flavell RA**. NLRP3 inflammasome plays a critical role in the pathogenesis of hydroxyapatite- associated arthropathy. Proc. Natl. Acad. Sci. USA 108:14867-14872 (2011) PMC3169126

886. Rathinam C, Poueymirou WT, Rojas J, Murphy AJ, Valenzuela DM, Yancopoulos GD, Eynon EE, Manz MG, **Flavell RA**. Efficient differentiation and function of human macrophages in humanized CSF-1 mice. Blood 118:3119-3128 (2011) PMID: 21791433

887. Van Belle TL, Esplugus E, Liao J, Juntti T, **Flavell RA**, von Herrath MG. Development of autoimmune diabetes in the absence of detectable interleukin-17A in a CD8-driven virally-induced model. J. Immunol. 187:2915-2922 (2011) PMC3169711 [Available on 2012/09/15]

888. Zhang G, Chen M, Graham D, Subsin B, McDougall C, Gilady S, Kneteman M, Law L, Swain M, Trauner M, Wrzesinski S, **Flavell R**, Wasilenko S, Mason A. Mouse mammary tumor virus in anti-mitochondrial antibody producing mouse models. J. Hepatol. 55:876-884 (2011) [PubMed – indexed for MEDLINE]

889. Kant S, Swat W, Zhang S, Zhang Z-Y, Neel BG, **Flavell RA**, Davis RJ. TNF-stimulated MAP kinase activation mediated by a Rho family GTPase signaling pathway. Genes Dev. 25:2069-2078 (2011) PMC3197205

890. Zou Q, Yao X Jin F Yin Z, **Flavell RA**, Hu Y, Zheng G, Jin J, Kang Y, Wu B, Liang X, Feng C, Li W, Wang X, Hiu H, Wen Y, Wang B.
Praziquantel faculiitates IFNg-producing CD8+ T cells (Tc1) and IL-17-producing CD8+ T cells (Tc17) responses to DNA vaccination in mice. PLoS ONE 6:E25525 (2011) PMC3187796

891. Balamayooran T, Batra S, Balamayooran G, Cai S, Kobayashi K, **Flavell RA**, Jeyaseelan S.
RIP2 controls pulmonary host defense to E. coli infection. Infect Immun. 79:4588-4599 (2011) Nov. PMC3257916

892. Allen SJ, Mott KR, Wechsler SL, **Flavell RA**, Town T, Ghiasi H.
Adaptive and innate transforming growth factor β signaling impact herpes simplex virus 1 latency and reactivation. J. Virol. 85:11448-11456 (2011) Nov. PMC3194985

893. Zhao N, Hao J, Ni Y , Luo W, Liang R, Cao G, Zhao Y, Wang P, Zhao L, Tian Z, **Flavell R**, Hong Z, Han J, Yao Z, Wu Z, Yin Z.
Vγ4γδT cell-derived IL-17A negatively regulates NKT cell function in Con A-induced fulminant hepatitis. J. Immunol. 187:5007-5014 (2011) Nov 15. PMID: 21987663

894. Ahmed N, Zeng M, Sinha I, Polin L, Wei W-Z, Rathinam C, **Flavell R**, Massoumi R, Venuprasad K.
The E3 ligase Itch and deubiquitinase Cyld act together to regulate Tak1 and inflammation. Nat. Immunol. 12:1176-1183 (2011) Nov 6. PMC3219826

895. Lech M, Kantner C, Kulkarni OP, Ryu M, Vlasova E, Heesemann J, Anz D, Endres S, Kobayashi KS, **Flavell RA**, Martin J, Anders H-J.
IL-1 receptor-associated kinase-M suppresses systemic lupus erythematosus. Ann. Rheum. Dis. 70:2207-2217 (2011) Dec. PMID:21875872

896. Malik A, Hoque R, Ouyang X, Hong E, Khan K, Moore L-B, Ng G, Munro F, **Flavell RA**, Shi Y, Kyriakides TR, Mehal WZ.
Inflammasome components ASC and Caspase-1 mediate biomaterial-induced inflammation and foreign body response. Proc. Natl. Acad. Sci. USA 108:20095-20100 (2011) Dec 13. PMC3250158

897. Strowig T, Henao-Mejia J, Elinav E, **Flavell RA**.
Inflammasomes in health and disease. Nature 481:278-286 (2012) Jan 18. PMC3276682

898. Waldron-Lynch F, Henegariu O, Deng S, Preston-Hurlburt P, Tooley J, **Flavell R**, Herold KC.
Teplizumab induces human gut-tropic regulatory cells in humanized mice and patients. Sci. Transl. Med. 4:118ra12 (2012) Jan 25. PMID:22342807

899. Gagliani N, Huber S, **Flavell RA**.
The intestine: where amazing things happen. Cell Res. 22:277-279 (2012) Feb. PMC3271807

900. Tao J, Kamanaka M, Hao J, Jiang X, Craft J, **Flavell RA**, Wu Z, Hong Z, Zhao L, Yin Z.
IL-10 signaling in CD4+ T cells is critical for the pathogenesis of collagen induced arthritis. Arth. Res. Ther. 13:R212 (2011) Dec. 22. PMC3334665

901. De Paiva CS, Volpe E, Ghandi NB, Zhang X, Zheng X, Pitcher JD III, Farley WJ, Stern ME, Niederkorn JY, Li D-Q, **Flavell RA**, Pflugfelder SC.
Disruption of TGF-β signaling improves ocular surface epithelial disease in experimental autoimmune keratoconjunctivitis sicca. J. Immunol. 6:e29017. Dec 11(2011). PMC3237576

902. Strowig T, **Flavell RA**.
Humanized mouse models of infectious diseases. Drug Discovery Today: Disease Models 9:e11-e16 (2012).

903. Koduru S, Wong E, Strowig T, Sundaram R, Zhang L, Strout MP, **Flavell RA**, Schatz DG, Dhodapkar KM, Dhodapkar MV.
Dendritic cell-mediated activation induced cytidine deaminase (AID)-dependent induction of genomic instability in human myeloma. Blood 119:2302-2309 (2012) [Pubmed - in process]

904. Henao-Mejia J, Elinav E, Jin C, Hao L, Mehal WZ, Strowig T, Thaiss CA, Kau AL, Eisenbarth SC, Jurczak MJ, Camporez J-P, Shulman GI, Gordon JI, Hoffman HM, **Flavell RA**.
Inflammasome-mediated dysbiosis regulates progression of NAFLD and obesity. Nature 482:179-185 (2012) Feb 1. PMC3276682

905. Kinnebrew MA, Buffie C, Diehl GE, Zenewicz LA, Leine I, Hohl TM, **Flavell RA**, Littman DR, Pamer EG.
Interleukin 23 production by intestinal CD103(+)CD11b(+) denfdritic cells in response to bacterial flagellin enhances mucosal innate immune defense. Immunity 36:276-287 (2012) Feb 24. PMC3288454

906. Qian F, Deng J, Gantner BN, **Flavell RA,** Dong C, Christman JW, Ye RD.
MAP kinase phosphatase 5 protects against sepsis-induced acute lung injury. Am. J. Physiol. Lung Cell. Mol. Physiol. 302:L866-L874 May 1 (2012). PMC3362165

907. Kriegel MA, Rathinam C, **Flavell RA**.
Pancreatic islet expression of chemokine CCL2 suppresses autoimmune diabetes via tolerogenic CD11c+ CD11b+ dendritic cells. Proc. Natl. Acad. Sci. USA 109:3457-3462. Feb 28 (2012). PMC3295274.

908. Issac JM, Sarawathiamma D, Al-Ketbi MI, Azimullah SM, Al-Ojali SM, Mohamed YA, **Flavell RA**, Fernandez-Cabezudo MJ, al-Ramadi BK.
Differential outcome of infection with attenuated *Salmonella* in MyD88-deficient mice is dependent on the route of administration. J. Immunol. Feb 10 (2012). PMID: 223869521

909. Henao-Mejia J, Elinav E, Strowig T, **Flavell RA**
Inflammasomes: far beyond inflammation. Nat. Immunol. 13:321-324. Mar 19 (2012). Review. PMID: 22430784

910. van der Windt GJW, Blok DC, Hoogerwerf JJ, Lammers AJJ, de Vos AF, van 't Veer C, Florquin S, Kobayashi KS, **Flavell RA**, van der Poll T.
IL-1-receptor-associated kinase M impairs host defense during pneumococcal pneumonia. J. Infect. Dis. 205(12):1849-57. Jun 15 (2012). PMID: 22492852.

911. Kuipers MT, Aslami H, Janczy JR, van der Slujs KF, Vlaar APJ, Wolthuis EK, Choi G, Roelofs JJTH, **Flavell RA**, Sutterwala FS, Bresser P, Leemans JC, van der Poll T, Schultz MJ, Wieland CW.
Ventilator-induced lung injury is mediated by the NLRP3 inflammasome. Anesthesiology. 116:1104-1115. May (2012). PMID 22531249

912. Eisenbarth SC, Williams A, Colegio OR, Meng H, Strowig T, Rongvaux A, Henao-Mejia J, Thaiss CA, Joly S, Gonzalez D, Xu L, Zenewicz LA, Haberman AM, Elinav E, Kleinstein SH, Sutterwala FS, **Flavell RA**
Nlrp10 is a NOD-like receptor essential to initiate adaptive immunity by dendritic cells. Nature 484:510-513. Apr 25 (2012). PMC3340615

913. Tsuda M, Zhang W, Yang G-X, Tsuneyama K, Ando Y, Kawata K, Park O, Leung PSC, Coppel RL, Ansari AA, Ridgway WM, Gao B, Lian Z-X, **Flavell R**, He X-S, Gershwin E.
Deletion of IL-12p35 induces liver fibrosis in dominant negative transforming growth factor receptor type II mice. Hepatology (2012). PMC3424295.

914. Theivanthiran B, Batra S, Balamayooran G, Cai S, Kobayashi K, **Flavell RA**, Jeyaseelan S. NOD2 signaling contributes to host defense in the lungs against *E. coli* infection. Infect. Immun. Jul;80(7):2558-69 (2012). PMC3416478

915. Willinger T, **Flavell RA**.
Canonical autophagy dependent on the class III phosphoinositide-3 kinase Vps34-dependent is required for naïve T cell homeostasis. Proc. Natl. Acad. Sci. USA 109:8670-8675 (2012) May 29. PMC3365213

916. Czyzyk J, Henegariiu O, Preston-Hurlburt P, Baldzizhar R, Fedorchuk C, Esplugues E, Bottomly K, Gorus FK, Herold K, **Flavell RA**.
Enhanced anti-serpin antibody activity inhibits autoimmune inflammation in type 1 diabetes. J. Immunol. 188:6319-6327. May 16 (2012). PMC3370061

917. Wu LH, Huang CC, Adhikarakunnathu S, San Mateo LR, Duffy KE, Rafferty P, Bugelski P, Raymond H, Deutsch H, Picha K, Ward CK, Alexopoulou L, **Flavell RA**, Mbow ML, Susulic VS.
Loss of Toll-like receptor 3 function improves glucose tolerance and reduces liver steatosis in obese mice. Metabolism May 17 (2012). PMID 22607770.

918. Lievens D, Habets KL, Robertson A-K, Laouar Y, Winkels H, Rademakers T, Beckers L, Wijnands E, Boon L, Mosaheb M, Ait-Oufella H, Mallat Z, **Flavell RA**, Rudling M, Binder CJ, Gerdes N, Biessen EAL, Weber C, Daemen MJAP, Kuiper J, Lutgens E.
Abrogated transforming growth factor beta receptor II (TGFβRII) signaling in dendritic cells promotes immune reactivity of T cells resulting in enhanced atherosclerosis. Eur. Heart J. May 21 (2012). PMID: 22613345

919. Helbig C, Gentek R, Backer RA, de Souza Y, Derks IAM, Eldering E, Wagner K, Jankovic D, Gridley T, Moerland P, **Flavell RA**, Amsen D.
Notch controls the magnitude of T helper cell responses by promoting cellular longevity. Proc. Natl. Acad. Sci. USA 109:9041-9046 (2012). PMC3384214

920. Ballinger MN, Newstead MW, Zeng X, Bhan U, Horiwitz JC, Moore BB, Pinsky DJ, **Flavell RA**, Standiford TJ.
TLR signaling prevents hyperoxia-induced lung injury by protecting the alveolar epithelium from oxidant-mediated death. J. Immunol. 189(1):356-64. Jun 1 (2012). PMC3529412.

921. Bobr A, Igyarto BZ, Haley KM, Li MO, **Flavell RA**, Kaplan DH.
Autocrine/paracrine TGF-β1 inhibits Langerhans cell migration. Proc. Natl. Acad. Sci. USA 109(26):10492-7. Jun 26 (2012). PMC3387113.

922. Macal M, Lewis GM, Kunz S, **Flavell R**, Harker JA, Zuniga EI.
Early host responses upon in vivo infection with a plasmacytoid dendritic cell-tropic arenavirus. Cell Host Microbe 11:617-630. Jun 14 (2012). PMC3377983

923. Walsh KB, Teijaro JR, Zuniga EI, Welch MJ, Fremgen DM, Blackburn SD, von Thiiel K, Wherry EJ, **Flavell RA**, Oldstone MBA.
Toll-like receptor 7 deficiency is associated with multiple defects in the adaptive immune response and lifelong persistent virus infection. Cell Host Microbe 11:643-653. Jun 14 (2012). PMC3377981

924. Zhang W, Ferguson J, Meng S, Hui K, Goh G, Lin A, Esplugues E, **Flavell RA**, Abraham C, Zhao H. Cho JH.
Effector CD4+ T cell expression signatures in immune-mediated diseases. PLoS One 7(6):e38510. June 8 (2012). PMC2213136

925. Hoogerwrof JJ, van der Windt GJW, Blok DC, Hoogerdijk AJ, de Vos AF, van 't Veer C, Florquin S, Kobayashi KS, **Flavell RA**, van der Poll T.
Interleukin-1-receptor-associated kinase M deficient mice demonstrate an improved host defense during gram-negative pneumonia. Molec. Med. Jun 18 (2012). PMC3475335

926. Sukumaran B, Ogura Y, Pedra J, Kobayashi K, **Flavell R**, Fikrig E.
Rip2 contributes to host defense against anaplasma phagocytophilum infection. FEMS Immunol. Med. Microbiol. Jun 18 (2012). PMC3409732

927. Hubner A, Mulholland D, Standen CL, Karasarides M, Cavanagh-Kyros J, Barrett T, Chi H, Greiner DL, Tournier C, **Flavell RA**, Sawyers CL, Wu H, Davis RJ.
JNK and PTEN co-operatively control the development of invasive adenocardinoma of the prostate. Proc. Natl. Acad. Sci. USA 109 (30):12046-51. Jul 24 (2012). PMC3409732

928. Park J, Wrzesinski SH, Stern E, Look M, Criscione J, Ragheb R, Jay SM, Demento SL, Agawu A, Licona Limon P, Ferrandino AF, Gonzalez D, Habermann A, **Flavell RA**, Fahmy TM.
Combination delivery of TGF-β inhibitor and IL-2 by nanoscale liposomal polymeric gels enhances tumor immunotherapy. Nat. Mat. (2012) PMC3601683

929. Dela Cruz CS, Liu W, He CH, Jacoby A, Gornitzky A, Ma B, **Flavell R**, Lee CG, Elias JA.
Chitinase 3-like-1 (Chi3l1) regulation of *Streptococcus pneumonia* lung infection. Cell Host Microbe 12(1): 34-46. Jul 19(2012). PMC3613130

930. Mandaric S, Walton SM, Rulicke T, Richter K, Girard-Madoux JH, Clausen BE, Zurunic A, Kamanaka M, **Flavell RA**, Jonjic S, Oxenius A.
IL-10 suppression of NK-DC crosstalk leads to poor priming of MCMV-specific CD4 T cells and prolonged MCMV persistence. PLoS Pathogens 8(8):e1002846. Aug (2012). PMC3410900

931. Gaddi PJ, Crane MJ, Kamanaka M, **Flavell RA**, Yap GS, Salazar-Mather TP.
IL-10 mediated regulation of liver inflammation during acute murine cytomegalovirus infection. PLoS ONE 7(8): e42850. Aug 3(2012). PMC3411849

932. Wegmann F, Gartlan KH, Brinckmann SA, Coccia M, Hillson WR, Kok WL, Cole S, Ho L-P, Lambe T, Puthia M, Svanborg C, M+Scherer EM, Krashias G, Williams A, Blattman JN, Greenberg PD, **Flavell RA**, Moghaddam AE, Shepard NC, Sattenau QJ.
Polyethyleneimine is a potent mucosal adjuvant for glycoproteins with innate and adaptive immune activating properties. Nat. Biotech. (2012) PMC3496939.

933. Huber S, Gagliani N, **Flavell RA**.
Life, death and miracles: Th17 cells in the intestine. Eur. J. Immunol. 42(9):2238-45 (2012)

934. Wang P, Bai F, Zenewicz L, Dai J, Gate D, Cheng G, Yang L, Qian F, Yuan X, Montgomery RR, **Flavell RA**, Town T, Fikrig E.
IL-22 signaling contributes to West Nile encephalitis pathogenesis. PLoS One. 7 (8):e44153. (2012) PMC3429482.

935. Liu X, Yan X, Zhong B, Nurieva RI, Wang A, Wang X, Martin-Orozco N, Wang Y, Chang SH, Esplugues E, **Flavell RA**, Tian Q, Dong C.
Bcl6 expression specifies the T follicular helper cell program *in vivo*. J. Exp. Med. 209(10):1841-52 (2012) PMC3457730.

936. Hoshi N, Schenten D, Nish SA, Walther Z, Gagliani N, **Flavell RA,** Reizis B, Shen Z, Fox JG, Iwasaki A, Medzhitov R.
MyD88 signalling in colonic mononuclear phagocytes drives colitis in IL-10-deficient mice. Nat Commun. 3:1120 (2012) PMC3521499.

937. Joly S, Eisenbarth SC, Olivier AK, Williams A, Kaplan DH, Cassel SL, **Flavell RA**, Sutterwala FS.
Cutting Edge: Nlrp10 is essential for the initiation of protective anti-fungal adaptive immunity against *Candida albicans*. J.Immunol. Nov 15;189(10):4713-7 (2012) PMC3548226.

938. Huber S, Gagliani N, Zenewicz LA, Huber FJ, Hedl W, O'Connor W, Murphy AJ, Valenzuela DM, Yancopoulos GD, Booth CJ, Cho JH, Ouyang W, Abraham C, **Flavell RA**
IL-22BP axis is regulated by the inflammasome and modulates tumorogenesis in the intestine. Nature Nov 8;491(7423):259-63. (2012). PMC3493690.

939. Chaiyachati B, Kaundal R, Wu, Zhao J, Wu J, **Flavell R**, and Chi T.
LoxP-FRT Trap (LOFT): A simple and flexible system for conventional and reversible gene targeting. BMC Biology; 10(1):96 (2012). PMC3529186.

940. Elinav E, Henao-Mejia J, **Flavell RA**.
Integrative inflammasome activity in the regulation of intestinal mucosal immune responses. Mucosal Immunol. (Review) (2012).

941. McGee HM, Schmidt BA, Booth CJ, Yancopoulos GD, Valenzuela DM, Murphy AJ, Stevens S, **Flavell RA,** Horsley V.
IL-22 Promotes Fibroblast-Mediated Wound Repair in the Skin. J Invest Dermatol. Dec 6 (2012). PMC3610794.

942. Han MS, Jung DY, Morel C, Lakhani SA, Kim JK, **Flavell RA**, Davis RJ.
JNK Expression by Macrophages Promotes Obesity-Induced Insulin Resistance and Inflammation. Science. (2012) PMC3835653

943. Terwagne M, Ferooz J, Rolán HG, Sun YH, Atluri V, Xavier MN, Franchi L, Núñez G, Legrand T, **Flavell RA**, De Bolle X, Letesson JJ, Tsolis RM.
Innate immune recognition of flagellin limits systemic persistence of Brucella. Cell Microbiol. Dec 11 (2012). PMID: 23227931.

944. de Zoete MR, **Flavell RA.**
NLRP1 Joins the Dark Side? Immunity 37(6):950-2. Dec 14 (2012). PMID: 23244714.

945. Rongvaux A, Takizawa H, Strowig T, Willinger T, Eynon EE, **Flavell RA,** Manz MG.
Human Hemato-Lymphoid System Mice: Current Use and Future Potential for Medicine. Annu. Rev. Immunol. 31:635-74 (2013) PMC4120191.

946. Case CL, Kohler LJ, Lima JB, Strowig T, de Zoete MR, **Flavell RA**, Zamboni DS, Roy CR.
Caspase-11 stimilates rapid flagellin-independent pyroptosis in response to the *Legionella pneumophila*. Proc. Natl. Acad. Sci. USA (2013). PMC3562791.

947. Chaiyachati BH, Jani A, Wan Y, Huang H, **Flavell R**, Chi T.
BRG1-mediated immune tolerance: facilitation of Treg activation and partial independence of chromatin remodelling. EMBO J; 32(3):395-408. (2013) PMC3567501.

948. Martin RA, Ather JL, Lundblad LK, Suratt BT, Boyson JE, Budd RC, Alcorn JF, **Flavell RA**, Eisenbarth SC, Poynter ME.
Interleukin-1 Receptor and Caspase-1 are required for the Th17 response in NO2-promoted allergic airway disease. Am J Respir Cell Mol Biol. (2013). PMC3707382

949. Ye J, Llorian M, Cardona M, Rongvaux A, Moubarak RS, Comella JX, Bassel-Duby R, **Flavell RA**, Olson EN, Smith CW, Sanchis D.
A pathway involving HDAC5, cFLIP and caspases regulates expression of the splicing regulator polypyrimidine tract binding protein in the heart. J Cell Sci. (2013) PMC3738211.

950. Wang Y, Hu Y, Chao C, Yuksel M, Colle I, **Flavell RA**, Ma Y, Yan H, Wen L.
Role of IRAK-M in Alcohol Induced Liver Injury. PLoS One;8(2):e57085 (2013) PMC3578822

951. Koni PA, Bolduc A, Takezaki M, Ametani Y, Huang L, Lee JR, Nutt SL, Kamanaka M, **Flavell RA,** Mellor AL, Tsubata T, Shimoda M.
Constitutively CD40-Activated B Cells Regulate CD8 T Cell Inflammatory Response by IL-10 Induction. J Immunol. 2013 Apr 1;190(7):3189-96 (2013) PMC3608804.

952. Lawrence T, Hudacek A, de Zoete M, **Flavell R**, Schnell M.
Rabies Virus is Recognized by the NLRP3 Inflammasome and Activates IL-1β Release in Murine Dendritic Cells. J. Virology [Epub ahead of print] Mar 13 (2013) PMC3648142.

953. Shi H, Verma M, Zhang L, Dong C, **Flavell RA,** Bennett AM.
Improved regenerative myogenesis and muscular dystrophy in mice lacking Mkp5. J Clin Invest. Apr 1. doi:pii: 64375. 10.1172/JCI64375. (2013). PMC 3635719.

954. Ishigame H, Zenewicz LA, Sanjabi S, Licona-Limón P, Nakayama M, Leonard WJ, **Flavell RA.**
Excessive Th1 responses due to the absence of TGF-β signaling cause autoimmune diabetes and dysregulated Treg cell homeostasis. Proc Natl Acad Sci U S A. Apr 8. (2013) PMC3637710.

955. Williams A, Lee, GR, Spilianakis CG, Hwang SS, Eisenbarth SC, **Flavell RA**.
Hypersensitive site 6 of the Th2 locus control region is essential for Th2 cytokine expression. Proc Natl Acad Sci U S A. Apr 8 (2013) PMC3637752.

956. Zenewicz LA, Yin X, Wang G, Elinav E, Hao L, Zhao L, **Flavell RA.**
IL-22 Deficiency Alters Colonic Microbiota To Be Transmissible and Colitogenic. J Immunol. Apr 12 (2013). PMC3646987.

957. Henao-Mejia J.*, Williams A*, Goff L.A., Staron M, Licona-Limón P, Kaech S.M., Nakayama M, Rinn J.L., **Flavell R.A.**
miR-181 is a cellular metabolic rheostat essential for NKT cell development. Immunity. (2013) PMC3738211

958. Gagliani N, Magnani CF, Huber S, Monica E Gianolini ME, Pala M, Licona-Limon P, Guo B, De'Broski HR, Bulfone A, Trentini F, Di Serio C, Bacchetta R, Andreani M, Brockmann L, Gregori S, **Flavell RA**, Roncarolo M-G.
Coexpression of CD49b and LAG-3 identifies human and mouse T regulatory type 1 cells. Nature Medicine 19(6):739-46 (2013).

959. Ostmman A, Paust, H-J, Panzer U, Wegscheid, C, Kapffer S, Huber S, **Flavell R,** Erhardt A, Tiegs G. Regulatory T cell-derived IL-10 ameliorates crescentic glomerulonephritis. J Am Soc Nephrol. May 2 (2013). PMC3665390

960. Licona-Limón P, Kim LK, Palm NW, **Flavell RA.**
T(H)2, allergy and group 2 innate lymphoid cells. Nat Immunol. May 20;14(6):536-542 (2013).

961. Ishigame H, Mosaheb M, Sanjabi S, **Flavell RA**
Truncated form of TGF-β RII, but not its absence, induces memory CD8+ T cell expansion and lymphproliferative disorder in mice. Journal of Immunology (2013). PMC3690649.

962. Hu B, Elinav E, Huber S, Strowig T, Hao L, Hafemann A, Jin C, Eisenbarth SC, **Flavell RA.**
Microbiota-induced activation of epithelial IL-6 signaling links inflammasome-driven inflammation with transmissible cancer. Proc Natl Acad Sci U S A. Jun 11;110(24):9862-7 (2013). PMC3683709

963. Knauf F, Asplin JR, Granja I, Schmidt IM, Moeckel GW, David RJ, **Flavell RA**, Aronson PS.
NALP3-mediated inflammation is a principal cause of progressive renal failure in oxalate nephropathy. Kidney Int. Jun 5. doi: 10.1038/ki.2013.207. (2013) PMC3772982

964. Lima-Junior DS, Costa DL, Carregaro V, Cunha LD, Silva AL, Mineo TW, Gutierrez FR, Bellio M, Bortoluci KR, **Flavell RA**, Bozza MT, Silva JS, Zamboni DS.
Inflammasome-derived IL-1β production induces nitric oxide-mediated resistance to Leishmania. Nat Med. 2013 Jun 9. doi: 10.1038/nm.3221. PubMed PMID: 23749230.

965. Jin C, Henao-Mejia J, **Flavell RA.**
Innate immune receptors: key regulators of metabolic disease progression. Cell Metab. Jun 4;17(6):873-82 (2013).

966. Herndler-Brandstetter D, Ishigame H, **Flavell RA**.
How to define biomarkers of human T cell aging and immunocompetence? Front Immunol. Jun 4 (2013) PMC3671361.

967. Casson CN, Copenhaver AM, Zwack EE, Nguyen HT, Strowig T, Javdan B, Bradley WP, Fung TC, **Flavell RA**, Brodsky IE, Shin S.
Caspase-11 Activation in Response to Bacterial Secretion Systems that Access the Host Cytosol. PLoS Pathog. Jun; 9 (2013) PMC3675167.

968. Zhao Y, Zhao H, Sun Y, Hao J, Qi X, Zhou X, Wu Z, Wang P, Kaech SM, Weaver CT, **Flavell RA**, Zhao L, Yao Z, Yin Z.
IL-4 induces a suppressive IL-10-producing CD8+ T cell population via a Cdkn2a-dependent mechanism. J Leukoc Biol. Jun 14 (2013).

969. Gagliani N, Jofra T, Valle A, Stabilini A, Morsiani C, Gregori S, Deng S, Rothstein DM, Atkinson M, Kamanaka M, **Flavell RA**, Roncarolo MG, Battaglia M.
Transplant tolerance to pancreatic islets is initiated in the graft and sustained in the spleen. Am J Transplant. Aug;13(8):1963-75 (2013). PMC3869180

970. Geldhoff M, Mook-Kanamori BB, Brouwer MC, Troost D, Leemans JC, **Flavell RA**, Van der Ende A, Van der Poll T, Van de Beek D.
Inflammasome activation mediates inflammation and outcome in humans and mice with pneumococcal meningitis. BMC Infect Dis. Jul 31;13(1):358 (2103). PMC3750264

971. Gisterå A, Robertson AK, Andersson J, Ketelhuth DF, Ovchinnikova O, Nilsson SK, Lundberg AM, Li MO, **Flavell RA**, Hansson GK.
Transforming Growth Factor-β Signaling in T Cells Promotes Stabilization of Atherosclerotic Plaques Through an Interleukin-17-Dependent Pathway. Sci Transl Med. 5(196):196ra100. Jul 31(2013). PMC3750264.

972. Jin C, **Flavell RA.**
Innate sensors of pathogen and stress: Linking inflammation to obesity. J Allergy Clin Immunol. Aug;132(2):287-94 (2013). PubMed PMID: 23905917.

973. Chen X, Wen T, Wei J, Wu Z, Wang P, Hong Z, Zhao L, Wang B, **Flavell R**, Gao S, Wang M, Yin Z.
Treatment of allergic inflammation and hyperresponsiveness by a simple compound, Bavachinin, isolated from Chinese herbs. Cell Mol Immunol. 10(6):497-505. Nov (2013) PubMed PMID: 24013845.

974. Nowarski R, Gagliani N, Huber S, **Flavell RA**
Innate immune cells in inflammation and cancer. Cancer Immunol Res. Aug;1(2):77-84. 2013 doi: 10.1158/2326-6066.CIR-13-0081. PubMed PMID: 24777498.

975. Badou A, Jha MK, Matza D, **Flavell RA**.
Emerging Roles of L-Type Voltage-Gated and Other Calcium Channels in T Lymphocytes. Front Immunol.: 243 Review. Aug 30;4:243 (2013). PMC3757574.

976. Liang X, Fu C, Cui W, Ober-Blöbaum JL, Zahner SP, Shrikant PA, Clausen BE, **Flavell RA,** Mellman I, Jiang A. β-Catenin mediates tumor-induced immunosuppression by inhibiting cross-priming of CD8+ T cells. J Leukoc Biol. 95(1):179-90. Jan (2014).PubMed PMID: 24023259.

977. Henao-Mejia J, Elinav E, Thaiss CA, Licona-Limon P, **Flavell RA.**
Role of the intestinal microbiome in liver disease. J Autoimmun. Oct;46:66-73. (2013) PubMed PMID: 24075647.

978. Licona-Limón P, Henao-Mejía J, Temann, AU, Gagliani N, Licona-Limón I, Ishigame H, Hao H, Herbert DR, **Flavell RA**
Th9 cells drive host immunity against gastrointestinal worm infection. Immunity 39(4):744-57. Oct 17 (2013). PMC3881610.

979. Elinav E, Nowarski, R, Thaiss C.A., Hu, B, Jin, C, **Flavell R.A.**
Inflammation-induced cancer: crosstalk between tumours, immune cells and microorganisms. Nat Rev Cancer. 13(11):759-71. Oct 24 (2013) PubMed PMID: 24154716.

980. Williams A, Henao-Mejia J, Harman CC, **Flavell RA**.
miR-181 and Metabolic Regulation in the Immune System. Cold Spring Harb Symp Quant Biol. (2013) Oct 25. PubMed PMID: 24163395.

981. Richter K, Perriard G, Behrendt R, Schwendener RA, Sexl V, Dunn R, Kamanaka M, **Flavell RA,** Roers A, Oxenius A.
Macrophage and T cell produced IL-10 promotes viral chronicity. PLoS Pathog. Nov;9(11):e1003735 (2013). PMC3820745

982. Henao-Mejia J, Elinav E, Thaiss CA, **Flavell RA.**
Inflammasomes and Metabolic Disease. Annu Rev Physiol. 10;76:57-78. Feb. (2014) PMID: 24274736.

983. Negishi H, Matsuki K, Endo N, Sarashina H, Miki S, Matsuda A, Fukazawa K, Taguchi-Atarashi N, Ikushima H, Yanai H, Nishio J, Honda K, Fujioka Y, Ohba Y, Noda T, Taniguchi S, Nishida E, Zhang Y, Chi H, **Flavell RA**, Taniguchi T.
Beneficial innate signaling interference for antibacterial responses by a Toll-like receptor-mediated enhancement of the MKP-IRF3 axis. Proc Natl Acad Sci U S A. 2013 Dec 3;110(49):19884-9. (2013). PMC3856811

984. Lech M, Gröbmayr R, Ryu M, Lorenz G, Hartter I, Mulay SR, Susanti HE, Kobayashi KS, **Flavell RA,** Anders HJ.
Macrophage Phenotype Controls Long-Term AKI Outcomes--Kidney Regeneration versus Atrophy. J Am Soc Nephrol. Feb;25(2):292-304 (2013). PMC3904561.

985. Ouyang X, Ghani A, Malik A, Wilder T, Colegio OR, **Flavell RA**, Cronstein BN, Mehal WZ.
Adenosine is required for sustained inflammasome activation via the A2A receptor and the HIF-1α pathway. Nat Commun.4:2909.Dec 19(2013). PMC PMC3895487

986. de Zoete MR, **Flavell RA.**
Interactions between Nod-Like Receptors and Intestinal Bacteria. Front Immunol.17;4:462. Review. (2013). PMC3865441.

987. Willinger T, **Flavell RA.** Esaping Rejection: A Step Forward for Embryonic-Stem-Cell-Based Regenerative Medicine. Cell Stem Cell. Jan 2;14(1):3-4. (2014) PubMed PMID: 24388169

988. Pulskens WP, Butter LM, Teske GJ, Claessen N, Dessing MC, **Flavell RA**, Sutterwala FS, Florquin S, Leemans JC.
Nlrp3 prevents early renal interstitial edema and vascular permeability in unilateral ureteral obstruction. PLoS One 9(1):e85775. Jan 15 (2014). PMC3893260.

989. Hacisuleyman E, Goff LA, Trapnell C, Williams A, Henao-Mejia J, Sun L, McClanahan P, Hendrickson DG, Sauvageau M, Kelley DR, Morse M, Engreitz J, Lander ES, Guttman M, Lodish HF, **Flavell R**, Raj A, Rinn JL.
Topological organization of multichromosomal regions by the long intergenic noncoding RNA Firre. Nat Struct Mol Biol. 21(2):198-206. (2014) PubMed PMID: 24463464.

990. Liu J, Harberts E, Tammaro A, Girardi N, Filler RB, Fishelevich R, Temann A, Licona-Limón P, Girardi M, **Flavell RA**, Gaspari AA.
IL-9 Regulates Allergen-Specific Th1 Responses in Allergic Contact Dermatitis. J Invest Dermatol. Jan 31. doi: 10.1038/jid.2014.61. (2014) PubMed PMID: 24487305.

991. Chen X, Shen Y, Liang Q, **Flavell R,** Hong Z, Yin Z, Wang M.
Effect of Bavachinin and its derivatives on T cell differentiation. Int Immunopharmacol. Feb 4. pii: S1567-5769(14)00036-8. (2014). PubMed PMID: 24508059

992. Huang W, Kachapati K, Adams D, Wu Y, Leung PS, Yang GX, Zhang W, Ansari AA, **Flavell RA**, Gershwin ME, Ridgway WM.
Murine autoimmune cholangitis requires two hits: Cytotoxic KLRG1(+) CD8 effector cells and defective T regulatory cells. J Autoimmun. Feb 18. pii: S0896-8411(14)00039-0. (2014) PubMed PMID: 24556277.

993. Wlodarska M, Thaiss CA, Nowarski R, Henao-Mejia J, Zhang JP, Brown EM, Frankel G, Levy M, Philbrick WM, Elinav E, Finlay BB, **Flavell R.A.**
NLRP6 inflammasome regulates the intestinal host-microbial interface by orchestrating goblet cell-mediated mucus secretion. Cell, 156 (5):1045-59 (2014) PMC4017640.

994. Wu X, Lahiri A, Haines GK 3rd, **Flavell RA**, Abraham C.
NOD2 Regulates CXCR3-Dependent CD8+ T Cell Accumulation in Intestinal Tissues with Acute Injury. J Immunol. Mar 3. (2014) PubMed PMID: 24591373.

995. Rongvaux A, Willinger T, Martinek J, Strowig T, Gearty SV, Teichmann LL, Saito Y, Marches F, Halene S, Palucka AK, Manz MG and **Flavell RA.**
Development and function of human innate immune cells in a humanized mouse model. Nature Biotechnology (2014). PMC4017589.

996. Kim LK, Esplugues E, Zorca CE, Parisi F, Kluger Y, Kim TH, Galjart NJ, **Flavell RA**.
Oct-1 Regulates IL-17 Expression by Directing Interchromosomal Associations in Conjunction with CTCF in T Cells. Mol Cell. pii: S1097-2765(14)00118-X. (2014). PubMed PMID: 24613343.

997. Willinger T, Ferguson SM, Pereira JP, De Camilli P, **Flavell RA.**
Dynamin 2-dependent endocytosis is required for sustained S1PR1 signaling. J Exp Med. (2014). PMC3978280.

998. Wynosky-Dolfi MA, Snyder AG, Philip NH, Doonan PJ, Poffenberger MC, Avizonis D, Zwack EE, Riblett AM, Hu B, Strowig T, **Flavell RA**, Jones RG, Freedman BD, Brodsky IE.
Oxidative metabolism enables Salmonella evasion of the NLRP3 inflammasome. J Exp Med. Mar 17(2014) PMC3978275.

999. Canaan A, Defuria J, Perelman E, Schultz V, Seay M, Tuck D, **Flavell RA**, Snyder MP, Obin MS, Weissman SM.
Extended lifespan and reduced adiposity in mice lacking the FAT10 gene. Proc Natl Acad Sci U S A. Mar 24 (2014). PMC3986194.

1000. Gagliani N, Hu B, Huber S, Elinav E, **Flavell RA**.
The Fire Within: Microbes Inflame Tumors. Cell (2014) 157(4):776-783. (2014) (Review). PubMed PMID: 24813605.

1001. Zhu S, Jackson R, **Flavell RA**.
The lock-washer: a reconciliation of the RIG-I activation models. Cell Res. (2014). (Review). PMCID: PMC4042178.

1002. Sheppard NC, Brinckmann SA, Gartlan KH, Puthia M, Svanborg C, Krashias G, Eisenbarth SC, **Flavell RA,** Sattentau QJ, Wegmann F.
Polyethyleneimine is a potent systemic adjuvant for glycoprotein antigens. Int Immunol. pii: dxu055. (2014). [Epub ahead of print] PubMed PMID: 24844701.

1003. Gagliani N, Palm NW, de Zoete MR, **Flavell RA.**
Inflammasomes and intestinal homeostasis: regulating and connecting infection, inflammation and the microbiota. Int Immunol. Sep;26 (9) :495-9 (2014). PMCID: PMC4200027.

1004. Chung LK, Philip NH, Schmidt VA, Koller A, Strowig T, **Flavell RA**, Brodsky IE, Bliska JB.
IQGAP1 Is Important for Activation of Caspase-1 in Macrophages and Is Targeted by Yersinia pestis Type III Effector YopM. MBio. Jul 1;5(4). pii: e01402-14. (2014). PMCID: PMC4161239

1005. Gate D, Danielpour M, Rodriguez J Jr, Kim GB, Levy R, Bannykh S, Breunig JJ, Kaech SM, **Flavell RA**, Town T. T-cell
TGF-β signaling abrogation restricts medulloblastoma progression. Proc Natl Acad Sci U S A. Jul 31. pii: 201412489 (2014). PMCID: PMC4143044.

1006. de Zoete MR, **Flavell RA.**
Detecting "different": Pyrin senses modified GTPases. Cell Res. Aug 5. (2014). PMCID: PMC4220150.

1007. Palm NW, de Zoete MR, Cullen TW, Barry NA, Stefanowski J, Hao L, Degnan PH, Hu J, Peter I, Zhang W, Ruggiero E, Cho JH, Goodman AL and **Flavell RA***.
Immunoglobulin a coating identifies colitogenic bacteria in inflammatory bowel disease. Cell 158 (5) :1000-10. (2014). PMCID: PMC4174347.

1008. Li HB, Jin C, Chen Y and **Flavell RA**.
Inflammasome activation and metabolic disease progression. Cytokine Growth Factor Rev. Aug 12 (2014). PMID: 25156419

1009. Shulman Z, Gitlin AD, Weinstein JS, Lainez B, Esplugues E, **Flavell RA**, Craft JE and Nussenzweig MC.
Dynamic signaling by T follicular helper cells during germinal center B cell selection. Science 345 (6200) :1058-62. Aug 29 (2014). PMCID: PMC4519234.

1010. Galluzzi L, Bravo-San Pedro JM, Vitale I, Aaronson SA, Abrams JM, Adam D, Alnemri ES, Altucci L, Andrews D, Annicchiarico-Petruzzelli M, Baehrecke EH, Bazan NG, Bertrand MJ, Bianchi K, Blagosklonny MV, Blomgren K, Borner C, Bredesen DE, Brenner C, Campanella M, Candi E, Cecconi F, Chan FK, Chandel NS, Cheng EH, Chipuk JE, Cidlowski JA, Ciechanover A, Dawson TM, Dawson VL, De Laurenzi V, De Maria R, Debatin KM, Di Daniele N, Dixit VM, Dynlacht BD, El-Deiry WS, Fimia GM, **Flavell RA,** Fulda S, Garrido C, Gougeon ML, Green DR, Gronemeyer H, Hajnoczky G, Hardwick JM, Hengartner MO, Ichijo H, Joseph B, Jost PJ, Kaufmann T, Kepp O,

Klionsky DJ, Knight RA, Kumar S, Lemasters JJ, Levine B, Linkermann A, Lipton SA, Lockshin RA, López-Otín C, Lugli E, Madeo F, Malorni W, Marine JC, Martin SJ, Martinou JC, Medema JP, Meier P, Melino S, Mizushima N, Moll U, Muñoz-Pinedo C, Nuñez G, Oberst A, Panaretakis T, Penninger JM, Peter ME, Piacentini M, Pinton P, Prehn JH, Puthalakath H, Rabinovich GA, Ravichandran KS, Rizzuto R, Rodrigues CM, Rubinsztein DC, Rudel T, Shi Y, Simon HU, Stockwell BR, Szabadkai G, Tait SW, Tang HL, Tavernarakis N, Tsujimoto Y, Vanden Berghe T, Vandenabeele P, Villunger A, Wagner EF, Walczak H, White E, Wood WG, Yuan J, Zakeri Z, Zhivotovsky B, Melino G and Kroemer G.
Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. Cell Death Differ. Sep 19 (2014). PMCID: PMC4262782.

1011. de Zoete MR, Palm NW, Zhu S and **Flavell RA**.
Inflammasomes. Cold Spring Harb Perspect Biol. Oct 16 (2014). PMID: 25324215

1012. Bouwman LI, de Zoete MR, Bleumink-Pluym NM, **Flavell RA** and van Putten JP.
Inflammasome Activation by Campylobacter jejuni. J Immunol. 1;193 (9):4548-57. Sep 29 (2014). PMCID: PMC4201959.

1013. Heisig M, Abraham NM, Liu L, Neelakanta G, Mattessich S, Sultana H, Shang Z, Ansari JM, Killiam C, Walker W, Cooley L, **Flavell RA**, Agaisse H, Fikrig E.
Antivirulence properties of an antifreeze protein. Cell Rep 9(2):417-24. (2014). doi: 10.1016/j.celrep.2014.09.034. PMCID: PMC4223805.

1014. Camirand G, Wang Y, Lu Y, Wan YY, Lin Y, Deng S, Guz G, Perkins DL, Finn PW, Farber DL, **Flavell RA**, Shlomchik WD, Lakkis FG, Rudd CE, Rothstein DM.
CD45 ligation expands Tregs by promoting interactions with DCs. J Clin Invest. 1;124(10):4603-132014. (2014). doi: 10.1172/JCI74087. PMCID: PMC4191025.

1015. Wegiel B, Larsen R, Gallo D, Chin BY, Harris C, Mannam P, Kaczmarek E, LeePJ, Zuckerbraun BS, **Flavell R**, Soares MP, Otterbein LE. Macrophages sense and kill bacteria through carbon monoxide-dependent inflammasome activation. J Clin Invest.124(11):4926-40. Nov 3 (2014). doi: 10.1172/JCI72853. PMCID: PMC4347244.

1016. Amezcua C, Gagliani N, **Flavell R**.
FLUshing in the bathroom. J Exp Med. 211(12):2328-9 Nov 17(2014). doi: 10.1084/jem.21112insight4. PMCID: PMC4235632.

1017. Herndler-Brandstetter D, **Flavell RA**.
Producing GM-CSF: a unique T helper subset? Cell Res.24(12):1379-80. Dec (2014). doi: 10.1038/cr.2014.155. PMCID: PMC4260353.

1018. Rongvaux A, Jackson R, Harman CC, Li T, West AP, de Zoete MR, Wu Y, Yordy B, Lakhani SA, Kuan CY, Taniguchi T, Shadel GS, Chen ZJ, Iwasaki A, **Flavell RA.**
Apoptotic caspases prevent the induction of type I interferons by mitochondrial DNA. Cell 18;159(7):1563-77. Dec (2014). doi: 10.1016/j.cell.2014.11.037. PMCID: PMC4272443.

1019. Zhu S, Li HB, **Flavell RA.**
Resemble and Inhibit: When RLR Meets TGF-β. Mol Cell. 18;56(6):719-20. Dec (2014). doi: 10.1016/j.molcel.2014.12.010. PubMed PMID: 25526529.

1020. Deng K, Pertea M, Rongvaux A, Wang L, Durand CM, Ghiaur G, Lai J, McHugh HL, Hao H, Zhang H, Margolick JB, Gurer C, Murphy AJ, Valenzuela DM, Yancopoulos GD, Deeks SG, Strowig T, Kumar P, Siliciano JD, Salzberg SL, **Flavell RA**, Shan L, Siliciano RF.
Broad CTL response is required to clear latent HIV-1 due to dominance of escape mutations. Nature 517(7534):381-5. Jan 15 (2015). doi: 10.1038/nature14053. PMCID: PMC4406054

1021. Miyata M, Lee JY, Susuki-Miyata S, Wang WY, Xu H, Kai H, Kobayashi KS, **Flavell RA,** Li JD. Glucocorticoids suppress inflammation via the upregulation of negative regulator IRAK-M. Nat Commun. 6:6062. Jan 14 (2015). doi: 10.1038/ncomms7062. PMCID: PMC4309435

1022. Ballinger MN, Newstead MW, Zeng X, Bhan U, Mo XM, Kunkel SL, Moore BB, **Flavell R**, Christman JW, Standiford TJ.
IRAK-M Promotes Alternative Macrophage Activation and Fibroproliferation in Bleomycin-Induced Lung Injury. J Immunol. Jan 16 (2015). pii: 1402377. PMCID: PMC4384172.

1023. Krishnaswamy JK, Singh A, Gowthaman U, Wu R, Gorrepati P, Sales Nascimento M, Gallman A, Liu D, Rhebergen AM, Calabro S, Xu L, Ranney P, Srivastava A, RansonM, Gorham JD, McCaw Z, Kleeberger SR, Heinz LX, Müller AC, Bennett KL,Superti-Furga G, Henao-Mejia J, Sutterwala FS, Williams A, **Flavell RA**, EisenbarthSC.
Coincidental loss of DOCK8 function in NLRP10-deficient and C3H/HeJ mice results in defective dendritic cell migration. Proc Natl Acad Sci U S A. 112(10): 3056-61. Mar 10 (2015); doi: 10.1073/pnas.1501554112. PMCID: PMC4364188.

1024. Stratigi K, Kapsetaki M, Aivaliotis M, Town T, **Flavell RA**, Spilianakis CG.
Spatial proximity of homologous alleles and long noncoding RNAs regulate a switch in allelic gene expression. Proc Natl Acad Sci U S A. 112(13):E1577-86. Mar 31(2015). doi: 10.1073/pnas.1502182112. PMCID: PMC4386343.

1025. Zorca CE, Kim LK, Kim YJ, Krause MR, Zenklusen D, Spilianakis CG, **Flavell RA.**
Myosin VI regulates gene pairing and transcriptional pause release in T cells. Proc Natl Acad Sci U S A. 112(13):E1587-93. Mar 31(2015);. doi: 10.1073/pnas.1502461112. PMCID: PMC4386387.

1026. Png CW, Weerasooriya M, Guo J, James SJ, Poh HM, Osato M, **Flavell RA**, Dong C, Yang H, Zhang Y.
DUSP10 regulates intestinal epithelial cell growth and colorectal tumorigenesis. Oncogene. Mar 16(2015). doi: 10.1038/onc.2015.74. PubMed PMID: 25772234.

1027. James SJ, Jiao H, Teh HY, Takahashi H, Png CW, Phoon MC, Suzuki Y, Sawasaki T, Xiao H, Chow VT, Yamamoto N, Reynolds JM, **Flavell RA**, Dong C, Zhang Y.
MAPK Phosphatase 5 Expression Induced by Influenza and Other RNA Virus Infection Negatively Regulates IRF3 Activation and Type I Interferon Response. Cell Rep. pii: S2211-1247(15)00176-X. Mar 11 (2015). doi:10.1016/j.celrep.2015.02.030. PubMed PMID: 25772359.

1028. Macia L, Tan J, Vieira AT, Leach K, Stanley D, Luong S, Maruya M, Ian McKenzie C, Hijikata A, Wong C, Binge L, Thorburn AN, Chevalier N, Ang C, Marino E, Robert R, Offermanns S, Teixeira MM, Moore RJ, **Flavell RA,** Fagarasan S, Mackay CR.
Metabolite-sensing receptors GPR43 and GPR109A facilitate dietary fibre-induced gut homeostasis through regulation of the inflammasome. Nat Commun. 6:6734. Apr 1 (2015). doi: 10.1038/ncomms7734. PubMed PMID: 25828455.

1029. Willinger T, Staron M, Ferguson SM, De Camilli P, **Flavell RA.**
Dynamin2-dependent endocytosis sustains T-cell receptor signaling and drives metabolicreprogramming in T lymphocytes. Proc Natl Acad Sci U S A. 112(14):4423-8. Apr 7 (2015). doi: 10.1073/pnas.1504279112. PMCID: PMC4394306

1030. Zhang Y, Nguyen T, Tang P, Kennedy NJ, Jiao H, Zhang M, Reynolds JM, Jaeschke A, Martin-Orozco N, Chung Y, He WM, Wang C, Jia W, Ge B, Davis RJ, **Flavell RA**. Dong C. Regulation of Adipose Tissue Inflammation and Insulin Resistance by MAP Kinase Phosphatase 5. **J Biol Chem**. pii: jbc.M115.660969 (2015) Apr 28. PMCID: PMC4498984.

1031. Gagliani N, Vesely MC, Iseppon A, Brockmann L, Xu H, Palm NW, de Zoete MR, Licona Limón P, Paiva RS, Ching T, Weaver C, Zi X, Pan X, Fan R, Garmire LX, Cotton MJ, Drier Y, Bernstein B,

Geginat J, Stockinger B, Esplugues E, Huber S, **Flavell RA**.
Th17 cells transdifferentiate into regulatory T cells during resolution of inflammation. **Nature**. (2015) Apr 29. doi: 10.1038/nature14452. PMCID: PMC4498984.

1032. Kim LK, Morita R, Kobayashi K, Eisenbarth SC, Lee CG, Elias JA, Eynon EE, **Flavell RA.** AMCase is a crucial regulator of type 2 immune responses to inhaled house dust mites. Proc NatlAcad Sci USA;112 (22):E2891-9. Jun 2 (2015). PMCID: PMC4460510.

1033. Pan W, Zhu S, Dai D, Liu Z, Li D, Li B, Gagliani N, Zheng Y, Tang Y, Weirauch MT, Chen X, Zhu W, Wang Y, Chen B, Qian Y, Chen Y, Fang J, Herbst R, Richman L, Jallal B, Harley JB, **Flavell RA**, Yao Y, Shen N.
MiR-125a targets effector programs to stabilize Treg-mediated immune homeostasis. Nat Commun. May 12;6:7096. (2015) doi: 10.1038/ncomms8096. PubMed PMID: 25963922.

1034. Laidlaw BJ, Cui W, Amezquita RA, Gray SM, Guan T, Lu Y, Kobayashi Y, **Flavell RA**, Kleinstein SH, Craft J, Kaech SM.
Production of IL-10 by CD4(+) regulatory T cells during the resolution of infection promotes the maturation of memory CD8(+) T cells. Nat Immunol. Aug;16(8):871-9 (2015) doi: 10.1038/ni.3224. Epub 2015 Jul 6. PubMed PMID: 26147684.

1035. Palm NW, de Zoete MR, **Flavell RA**.
Immune-microbiota interactions in health and disease. Clin Immunol. 159(2):122-7.2015 Aug; doi: 10.1016/j.clim.2015.05.014. Epub 2015 Jun 30. Review. PubMed PMID: 26141651.

1036. Jones A, Opejin A, Henderson JG, Gross C, Jain R, Epstein JA, **Flavell RA**, Hawiger D.
Peripherally Induced Tolerance Depends on Peripheral Regulatory T Cells That Require Hopx To Inhibit Intrinsic IL-2 Expression. J Immunol. 195(4):1489-97 (2015) Aug 15;. doi: 10.4049/jimmunol.1500174. Epub 2015 Jul 13. PMCID: PMC4530038.

1037. Thiele K, Solano ME, Huber S, **Flavell RA**, Kessler T, Barikbin R, Jung R, Karimi K, Tiegs G, Arck PC.
Prenatal Acetaminophen Affects Maternal Immune and Endocrine Adaptation to Pregnancy, Induces Placental Damage, and Impairs Fetal Development in Mice. Am J Pathol. 185(10):2805-18 (2015) Oct. doi: 10.1016/j.ajpath.2015.06.019. Epub 2015 Aug 5. PubMed PMID: 26254283.

1038. Hu C, Ding H, Li Y, Pearson JA, Zhang X, **Flavell RA**, Wong FS, Wen L.
NLRP3 deficiency protects from type 1 diabetes through the regulation of chemotaxis into the pancreatic islets. Proc Natl Acad Sci U S A. 112(36):11318-23. Sep 8 (2015) doi: 10.1073/pnas.1513509112. Epub 2015 Aug 24. PMCID: PMC4568693.

1039. Finethy R, Jorgensen I, Haldar AK, de Zoete MR, Strowig T, **Flavell RA**, Yamamoto M, Nagarajan UM, Miao EA, Coers J.
Guanylate Binding Proteins enable rapid activation of canonical and noncanonical inflammasomes in Chlamydia-infected macrophages. Infect Immun. pii: IAI.00856-15. (2015) Sep 28. PMCID: PMC4645370.

1040. Jha A, Singh AK, Weissgerber P, Freichel M, Flockerzi V, **Flavell RA**, Jha MK. Essential roles for Cavβ2 and Cav1 channels in thymocyte development and T cell homeostasis. Sci Signal. 8(399):ra103. 2015 Oct 20; doi: 10.1126/scisignal.aac7538. PubMed PMID: 26486172.

1041. Wang P, Zhu S, Yang L, Cui S, Pan W, Jackson R, Zheng Y, Rongvaux A, Sun Q, Yang G, Gao S, Lin R, You F, **Flavell R**, Fikrig E.
Nlrp6 regulates intestinal antiviral innate immunity. Science. pii: aab3145 (2015) Oct 22. PubMed PMID: 26494172

1042. Hu C, Ding H, Li Y, Pearson JA, Zhang X, **Flavell RA,** Wong FS, Wen L.
NLRP3 deficiency protects from type 1 diabetes through the regulation of chemotaxis into the pancreatic islets. Proceedings of the National Academy of Sciences of the United States of America 112(36):11318-23(2015)PMCID: PMC4568693

1043. Facciotti F, Gagliani N, Häringer B, Alfen JS, Penatti A, Maglie S, Paroni M, Iseppon A, Moro M, Crosti MC, Stölzel K, Romagnani C, Moroni G, Ingegnoli F, Torretta S, Pignataro L, Annoni A, Russo F, Pagani M, Abrignani S, Meroni P, **Flavell R**, Geginat J.
IL-10-producing forkhead box protein 3-negative regulatory T cells inhibit B-cell responses and are involved in systemic lupus erythematosus. The Journal of Allergy and Clinical Immunology. (2015). PubMed PMID: 26318071

1044. Levy M, Thaiss CA, Zeevi D, Dohnalová L, Zilberman-Schapira G, Mahdi JA, David E, Savidor A, Korem T, Herzig Y, Pevsner-Fischer M, Shapiro H, Christ A, Harmelin A, Halpern Z, Latz E, **Flavell RA**, Amit I, Segal E, Elinav E.
Microbiota-Modulated Metabolites Shape the Intestinal Microenvironment by Regulating NLRP6 Inflammasome Signaling. Cell 163(6):1428-43. (2015) Dec 3; doi: 10.1016/j.cell.2015.10.048. PubMed PMID: 26638072.

1045. Paterka M, Siffrin V, Voss JO, Werr J, Hoppmann N, Gollan R, Belikan P, Bruttger J, Birkenstock J, Jung S, Esplugues E, Yogev N, **Flavell RA**, Bopp T, Zipp F.
Gatekeeper role of brain antigen-presenting CD11c+ cells in neuroinflammation. EMBO J. (2015) Nov 26. pii: e201591488. PMCID: PMC4718005

1046. Nowarski R, Jackson R, Gagliani N, de Zoete MR, Palm NW, Bailis W, Low JS, Harman CC, Graham M, Elinav E**, Flavell RA**.
Epithelial IL-18 Equilibrium Controls Barrier Function in Colitis. Cell 3;163(6):1444-56. (2015) Dec doi: 10.1016/j.cell.2015.10.072. PubMed PMID: 26638073.

1047. Hong E, Usiskin IM, Bergamaschi C, Hanlon DJ, Edelson RL, Justesen S, Pavlakis GN, **Flavell RA**, Fahmy TM. Configuration-dependent presentation of multivalent
IL-15:IL-15Rα enhances the antigen-specific T cell response and anti-tumor immunity. J Biol Chem. (2015) Dec 30. pii: jbc.M115.695304. [Epub ahead of print] PubMed PMID: 26719339.

1048. Theocharides AP, Rongvaux A, Fritsch K, **Flavell RA,** Manz MG.
Humanized hemato-lymphoid system mice. Haematologica 101(1):5-19. (2016). doi: 10.3324/haematol.2014.115212. Review. PMCID: PMC4697887

1049. Matza D, Badou A, Klemic KG, Stein J, Govindarajulu U, Nadler MJ, Kinet JP,Peled A, Shapira OM, Kaczmarek LK, **Flavell RA**.
T Cell Receptor Mediated Calcium Entry Requires Alternatively Spliced Cav1.1 Channels. PLoS One.;11(1):e0147379 Jan 27 (2016). doi: 10.1371/journal.pone.0147379. eCollection PMCID: PMC4729531.

1050. Henao-Mejia J, Williams A, Rongvaux A, Stein J, Hughes C, **Flavell RA.**
Generation of Genetically Modified Mice Using the CRISPR-Cas9 Genome-Editing System. Cold Spring Harb Protoc. (2):pdb.prot090704 Feb 1 (2016). doi:10.1101/pdb.prot090704. PubMed PMID: 26832688.

1051. Williams A, Henao-Mejia J, **Flavell RA**.
Editing the Mouse Genome Using the CRISPR-Cas9 System. Cold Spring Harb Protoc. (2):pdb.top087536 Feb 1; (2016). doi: 10.1101/pdb.top087536. PubMed PMID: 26832693.

1052. Hwang SS, Jang SW, Kim MK, Kim LK, Kim BS, Kim HS, Kim K, Lee W, **Flavell RA,** Lee GR. YY1 inhibits differentiation and function of regulatory T cells by blocking Foxp3 expression and activity. Nat Commun. 7:10789 Feb 19 (2016). doi:10.1038/ncomms10789. PMCID: PMC4762897.

1053. Vernia S, Morel C, Madara JC, Cavanagh-Kyros J, Barrett T, Chase K, Kennedy NJ, Jung DY, Kim JK, Aronin N, **Flavell RA,** Lowell BB, Davis RJ.
Excitatory transmission onto AgRP neurons is regulated by cJun NH2-terminal kinase 3 in response to metabolic stress. Elife. 5. pii: e10031. Feb 24 (2016). doi:10.7554/eLife.10031. PubMed PMID: 26910012.

1054. Zhu S, Wang G, Lei X, **Flavell RA**.
Mex3B, a coreceptor to present dsRNA to TLR3. Cell Res. Mar 4 (2016). doi: 10.1038/cr.2016.29. [Epub ahead of print] PubMed PMID: 26940660.

1055. Geginat J, Larghi P, Paroni M, Nizzoli G, Penatti A, Pagani M, Gagliani N, Meroni P, Abrignani S, Flavell RA. The light and the dark sides of Interleukin-10 in immune-mediated diseases and cancer. Cytokine Growth Factor Rev. pii: S1359-6101(16)30019-3. Mar 8 (2016). doi: 10.1016/j.cytogfr.2016.02.003. [Epub ahead of print] PubMed PMID: 26980675.

1056. Hong E, Usiskin IM, Bergamaschi C, Hanlon DJ, Edelson RL, Justesen S, Pavlakis GN, Flavell RA, Fahmy TM. Configuration-dependent Presentation of Multivalent IL-15:IL-15Rα Enhances the Antigen-specific T Cell Response and Anti-tumor Immunity. J Biol Chem. 291(17):8931-50. Apr 22 (2016). doi: 10.1074/jbc.M115.695304. PMC4861462.

1057. Zhu S, Wang G, Lei X, **Flavell RA**.
Mex3B: a coreceptor to present dsRNA to TLR3. Cell Res.26(4):391-2 Apr (2016). doi: 10.1038/cr.2016.29. Epub 2016 Mar 4. PMC4822127.

1058. Chan PY, Carrera Silva EA, De Kouchkovsky D, Joannas LD, Hao L, Hu D, Huntsman S, Eng C, Licona-Limón P, Weinstein JS, Herbert DR, Craft JE, **Flavell RA**, Repetto S, Correale J, Burchard EG, Torgerson DG, Ghosh S, Rothlin CV.
The TAM family receptor tyrosine kinase TYRO3 is a negative regulator of type 2 immunity. Science. 352(6281):99-103. Apr 1 (2016) doi: 10.1126/science.aaf1358. PubMed PMID: 27034374.

1059. Pillai PS, Molony RD, Martinod K, Dong H, Pang IK, Tal MC, Solis AG, Bielecki P, Mohanty S, Trentalange M, Homer RJ, **Flavell RA**, Wagner DD, Montgomery RR, Shaw AC, Staeheli P, Iwasaki A.
Mx1 reveals innate pathways to antiviral resistance and lethal influenza disease. Science.352(6284):463-6. Apr 22 (2016). doi:10.1126/science.aaf3926. PubMed PMID: 27102485.

1060. Hwang SS, Kim LK, Lee GR, **Flavell RA**.
Role of OCT-1 and partner proteins in T cell differentiation. Biochim Biophys Acta pii:S1874-9399(16)30068-2. Apr 26 (2016). doi:10.1016/j.bbagrm.2016.04.006. PubMed PMID: 27126747.

1061. Roulis M, **Flavell RA**.
Fibroblasts and myofibroblasts of the intestinal lamina propria in physiology and disease. Differentiation. pii:S0301-4681(16)30017-2. May 7 (2016). doi: 10.1016/j.diff.2016.05.002. [Epub ahead of print] Review. PubMed PMID: 27165847.

1062. Zheng WP, **Flavell RA.**
Pillars Article: The Transcription Factor GATA-3 Is Necessary and Sufficient for Th2 Cytokine Gene Expression in CD4 T Cells. Cell. 1997. 89: 587-596. J Immunol. 1;196(11):4426-35 Jun (2016). PubMed PMID: 27207805.

1063. Cao G, Li HB, Yin Z, **Flavell RA.**
Recent advances in dynamic m6A RNA modification. Open Biol.6(4):160003. doi: 10.1098/rsob.160003. Apr 13. (2016) Review. PMCID: PMC4852458.

1064. Krebs CF, Turner JE, Paust HJ, Kapffer S, Koyro T, Krohn S, Ufer F, Friese MA**, Flavell RA**, Stockinger B, Steinmetz OM, Stahl RA, Huber S, Panzer U.
Plasticity of Th17 Cells in Autoimmune Kidney Diseases. J Immunol.15;197(2):449-57. Jul. (2016) doi: 10.4049/jimmunol.1501831. PubMed PMID: 27271566.

1065. Costa FR, Françozo MC, de Oliveira GG, Ignacio A, Castoldi A, Zamboni DS, Ramos SG, Câmara NO, de Zoete MR, Palm NW, **Flavell RA**, Silva JS, Carlos D.
Gut microbiota translocation to the pancreatic lymph nodes triggers NOD2 activation and contributes to T1D onset. J Exp Med.213(7):1223-39. Jun 27 (2016). doi: 10.1084/jem.20150744 PMC4925011.

1066. Campisi L, Barbet G, Ding Y, Esplugues E, **Flavell RA**, Blander JM.
Apoptosis in response to microbial infection induces autoreactive TH17 cells. Nat Immunol. 17(9):1084-92. Sep. (2016). doi: 10.1038/ni.3512. Epub 2016 Jul 25. PMC5079524.

1067. Kotzin JJ, Spencer SP, McCright SJ, Kumar DB, Collet MA, Mowel WK, Elliott EN, Uyar A, Makiya MA, Dunagin MC, Harman CC, Virtue AT, Zhu S, Bailis W, Stein J, Hughes C, Raj A, Wherry EJ, Goff LA, Klion AD, Rinn JL, Williams A, **Flavell RA**, Henao Mejia J.
The long non-coding RNA Morrbid regulates Bim and short-lived myeloid cell lifespan. Nature. 2016 Aug 15;537(7619):239-243. doi: 10.1038/nature19346. PMC5161578.

1068. Saito Y, Ellegast JM, Rafiei A, Song Y, Kull D, Heikenwalder M, Rongvaux A, Halene S, **Flavell RA**, Manz MG.
Peripheral blood CD34+ cells efficiently engraft human cytokine knock-in mice. Blood pii: blood-2015-10-676452. Aug 19 (2016). PMC5054696.

1069. Odell ID, **Flavell RA**.
Microbiome: Ecology of eczema. Nat Microbiol. 16135. Aug 26 (2016);1(9): doi: 10.1038/nmicrobiol.2016.135. PubMed PMID: 27562264.

1070. Ellegast JM, Rauch PJ, Kovtonyuk LV, Müller R, Wagner U, Saito Y, Wildner-Verhey van Wijk N, Fritz C, Rafiei A, Lysenko V, Dudkiewicz E, Theocharides AP, Soldini D, Goede JS, **Flavell RA**, Manz MG.
INV(16) and NPM1mut AML engraft human cytokine knock-in mice. Blood. Aug 31 (2016). pii: blood-2015-12-689356. PMC5084606.

1071. Boddupalli CS, Nair S, Gray SM, Nowyhed HN, Verma R, Gibson JA, Abraham C, Narayan D, Vasquez J, Hedrick CC, **Flavell RA**, Dhodapkar KM, Kaech SM, Dhodapkar MV.
ABC transporters and NR4A1 identify a quiescent subset of tissue-resident memory cells. J Clin Invest. pii: 85329. Sep 12 (2016). doi: 10.1172/JCI85329. PMC5096804.

1072. Shen X, Burguillos MA, Osman AM, Frijhoff J, Carrillo-Jiménez A, Kanatani S, Augsten M, Saidi D, Rodhe J, Kavanagh E, Rongvaux A, Raklli V, Nyman U, Holmberg J, Östman A, **Flavell RA**, Barragan A, Venero JL, Blomgren K, Joseph B.
Glioma-induced inhibition of caspase-3 in microglia promotes a tumor-supportive phenotype. Nat Immunol. Sep 12 (2016) doi: 10.1038/ni.3545. [Epub ahead of print] PubMed PMID: 27618552.

1073. Pelczar P, Witkowski M, Perez LG, Kempski J, Hammel AG, Brockmann L, Kleinschmidt D, Wende S, Haueis C, Bedke T, Witkowski M, Krasemann S, Steurer S, Booth CJ, Busch P, König A, Rauch U, Benten D, Izbicki JR, Rösch T, Lohse AW, Strowig T, Gagliani N, **Flavell RA**, Huber S.

A pathogenic role for T cell-derived IL-22BP in inflammatory bowel disease. Science. Oct 21 (2016). PMID: 27846573

1074. Das R, Strowig T, Verma R, Koduru S, Hafemann A, Hopf S, Kocoglu MH, Borsotti C, Zhang L, Branagan A, Eynon E, Manz MG, **Flavell RA**, Dhodapkar MV. Microenvironment-dependent growth of preneoplastic and malignant plasma cells in humanized mice. Nat Med. Nov (2016).PMC5101153.

1075. Hu B, Jin C, Li HB, Tong J, Ouyang X, Cetinbas NM, Zhu S, Strowig T, Lam FC, Zhao C, Henao-Mejia J, Yilmaz O, Fitzgerald KA, Eisenbarth SC, Elinav E, **Flavell RA**.
The DNA-sensing AIM2 inflammasome controls radiation-induced cell death and tissue injury. Science. Nov 11 (2016).

1076. Paul AM, Acharya D, Le L, Wang P, Stokic DS, Leis AA, Alexopoulou L, Town T, **Flavell RA**, Fikrig E, Bai F.
TLR8 Couples SOCS-1 and Restrains TLR7-Mediated Antiviral Immunity, Exacerbating West Nile Virus Infection in Mice. J Immunol. Dec 1 (2016). PMC5123688.

1077. Cordeiro Gomes A, Hara T, Lim VY, Herndler-Brandstetter D, Nevius E, Sugiyama T, Tani-Ichi S, Schlenner S, Richie E, Rodewald HR, **Flavell RA**, Nagasawa T, Ikuta K, Pereira JP.
Hematopoietic Stem Cell Niches Produce Lineage-Instructive Signals to Control Multipotent Progenitor Differentiation. Immunity. Dec 20 (2016). PMID: 27913094

1078. Brockmann L, Gagliani N, Steglich B, Giannou AD, Kempski J, Pelczar P, Geffken M, Mfarrej B, Huber F, Herkel J, Wan YY, Esplugues E, Battaglia M, Krebs CF, **Flavell RA**, Huber S.
IL-10 Receptor Signaling Is Essential for TR1 Cell Function In Vivo. J Immunol. Dec 21 (2016). PMC5263184.

1079. Yu H, Borsotti C, Schickel JN, Zhu S, Strowig T, Eynon EE, Frleta D, Gurer C, Murphy AJ, Yancopoulos GD, Meffre E, Manz MG, **Flavell RA**.
A novel humanized mouse model with significant improvement of class- switched, antigen-specific antibody production. Blood. Jan 11 (2017). PMID: 28077418

1080. Acharya D, Wang P, Paul AM, Dai J, Gate D, Lowery JE, Stokic DS, Leis AA, **Flavell RA**, Town T, Fikrig E, Bai F.
Interleukin-17A Promotes CD8+ T Cell Cytotoxicity To Facilitate West Nile Virus Clearance. J Virol. Jan 1 (2017) PMID: 27795421

1081. Nowarski R, Jackson R, Flavell RA.
The Stromal Intervention: Regulation of Immunity and Inflammation at the Epithelial-Mesenchymal Barrier. Cell.;168(3):362-375. (2017) Jan 26. doi: 10.1016/j.cell.2016.11.040. Review. PubMed PMID:
28129537.

1082. Das S, Kohr M, Dunkerly-Eyring B, Lee DI, Bedja D, Kent OA, Leung AK, Henao-Mejia J, **Flavell RA,** Steenbergen C.
Divergent Effects of miR-181 Family Members on Myocardial Function Through Protective Cytosolic and Detrimental Mitochondrial microRNA Targets. J Am Heart Assoc.;6(3). pii: e004694. (2017) Feb 27. doi: 10.1161/JAHA.116.004694. PubMed PMID: 28242633.

1083. Speir M, Vogrin A, Seidi A, Abraham G, Hunot S, Han Q, Dorn GW 2nd, Masters SL, **Flavell RA**, Vince JE, Naderer T.
Legionella pneumophila Strain 130b Evades Macrophage Cell Death Independent of the Effector SidF in the Absence of Flagellin. Front Cell Infect Microbiol.;7:35. (2017) Feb 16. doi: 10.3389/fcimb.2017.00035. PubMed PMID: 28261564; PubMed Central PMCID: PMC5311068.

1084. Hori D, Dunkerly-Eyring B, Nomura Y, Biswas D, Steppan J, Henao-Mejia J, Adachi H, Santhanam L, Berkowitz DE, Steenbergen C, **Flavell RA**, Das S:
miR-181b regulates vascular stiffness age dependently in part by regulating TGF-β signaling**.** PLoS One. (2017) Mar 21; 2017 Mar 21. PMID: 28323879

1085. Bosurgi L, Cao YG, Cabeza-Cabrerizo M, Tucci A, Hughes LD, Kong Y, Weinstein JS, Licona-Limon P, Schmid ET, Pelorosso F, Gagliani N, Craft JE, **Flavell RA,** Ghosh S, Rothlin CV.
Macrophage function in tissue repair and remodeling requires IL-4 or IL-13 with apoptotic cells. *Science*. (2017) Jun 9. PMID: 28495875

1086. Patel AA, Zhang Y, Fullerton JN, Boelen L, Rongvaux A, Maini AA, Bigley V, **Flavell RA**, Gilroy DW, Asquith B, Macallan D, Yona S.
The fate and lifespan of human monocyte subsets in steady state and systemic inflammation. J Exp Med. (2017) Jun 12. PMID: 28606987

1087. Błażejewski AJ, Thiemann S, Schenk A, Pils MC, Gálvez EJC, Roy U, Heise U, de Zoete MR, **Flavell RA**, Strowig T.
Microbiota Normalization Reveals that Canonical Caspase-1 Activation Exacerbates Chemically Induced Intestinal Inflammation. Cell Rep. (2017) Jun 13. PMID: 28614717

1088. Thiemann S, Smit N, Roy U, Lesker TR, Gálvez EJC, Helmecke J, Basic M, Bleich A, Goodman AL, Kalinke U, **Flavell RA**, Erhardt M, Strowig T.
Enhancement of IFNγ Production by Distinct Commensals Ameliorates Salmonella-Induced Disease. Cell Host Microbe. (2017) Jun 14. PMID: 28618267

1089. Cunha LD, Silva ALN, Ribeiro JM, Mascarenhas DPA, Quirino GFS, Santos LL, **Flavell RA**, Zamboni DS.
AIM2 Engages Active but Unprocessed Caspase-1 to Induce Noncanonical Activation of the NLRP3 Inflammasome. Cell Rep. (2017) Jul 25. PMID: 28746866

1090. Cao G, Wang Q, Huang W, Tong J, Ye D, He Y, Liu Z, Tang X, Cheng H, Wen Q, Li D, Chau HT, Wen Y, Zhong H, Meng Z, Liu H, Wu Z, Zhao L, **Flavell RA**, Zhou H, Xu A, Yang H, Yin Z.
Long-term consumption of caffeine-free high sucrose cola beverages aggravates the pathogenesis of EAE in mice. Cell Discov. (2017); 2017 Jun 20. PMID: 28670480

1091. Zhu S, Ding S, Wang P, Wei Z, Pan W, Palm NW, Yang Y, Yu H, Li H, Wang G, Lei X, de Zoete MR, Zhao J, Zheng Y, Chen H, Zhao Y, Kellie A. Jurado KA, Feng N, Shan L, Kluger Y, Lu J, Abraham C, Fikrig E, Greenberg HB, **Flavell RA.**
Nlrp9b inflammasome restricts rotavirus infection in intestinal epithelial cells. Nature (2017) June 21. doi:10.1038/nature22967

1092. Li H, Tong J, Zhu S, Batista PJ, Duffy EE, Zhao J, Bailis W, Cao G, Kroehling L, Chen Y, Wang, G, Broughton JP, Chen YG, Kluger Y, Simon MD, Chang HY, Yin Z, **Flavell RA.**
m^6A mRNA methylation controls T cell homeostasis by targeting IL-7/STAT5/SOCS pathway. Nature (2017) Aug 9; 2017 Aug 9. PMID: 28792938

1093. Pan W, Zhu S, Qu K, Meeth K, Cheng J, He K, Ma H, Liao Y, Wen X, Roden C, Tobiasova Z, Wei Z, Zhao J, Liu J, Zheng J, Guo B, Khan SA, Bosenberg M, **Flavell RA**, Lu J.
The DNA Methylcytosine Dioxygenase Tet2 Sustains Immunosuppressive Function of Tumor-Infiltrating Myeloid Cells to Promote Melanoma Progression. Immunity. (2017) Aug 15. PMID: 28813659

1094. Rivera Vargas T, Cai Z, Shen Y, Dosset M, Benoit-Lizon I, Martin T, Roussey A, **Flavell RA**, Ghiringhelli F, Apetoh L.
Selective degradation of PU.1 during autophagy represses the differentiation and antitumour activity

of T_H9 cells. Nat Commun. (2017) Sep 15; 2017 Sep 15. PMID: 28916785

1095. Bailis W, Shyer JA, Chiorazzi M, **Flavell RA**.
No Oxygen? No Glucose? No Problem: Fatty Acid Catabolism Enhances Effector $CD8^+$ TILs. Cancer Cell. (2017) Sep 11. PMID: 28898693

1096. Yu H, Gagliani N, Ishigame H, Huber S, Zhu S, Esplugues E, Herold KC, Wen L, **Flavell RA**.
Intestinal type 1 regulatory T cells migrate to periphery to suppress diabetogenic T cells and prevent diabetes development. Proc Natl Acad Sci U S A. (2017) Sep 11; 2017 Sep 11. PMID: 28894001