

CURRICULUM VITAE
Jeffrey R. Bender, M.D.

Version date: December 15, 2022

School: Yale School of Medicine

Education:

9/1971-5/1975 BA, Biology, Brandeis University, Waltham MA

9/1975-5/1979 MD, University of California, San Francisco, CA

Career/Academic Appointments:

1979-1982 Resident in Medicine, Yale New Haven Hospital, New Haven, CT

1982-1983 Chief Medical Resident; Instructor and Associate in Medicine, Yale University School of Medicine, New Haven, CT

1983-1986 Postdoctoral Fellow in Cardiology, Stanford University, Stanford CA

1984-1988 Research Fellow in Immunology, Department of Pathology, Stanford University, Stanford CA

1986-1988 Clinical Assistant Professor of Medicine; Stanford School of Medicine, Stanford, CA

1988-1993 Assistant Professor of Medicine; Director, Cardiovascular Immunology Laboratory, Division of Cardiovascular Medicine; Member, Cardiac Transplant Group; Attending Physician, Cardiac Catheterization Laboratory, Yale University School of Medicine, New Haven, CT

1993-1997 Associate Professor of Medicine (Cardiovascular) and Immunobiology (Adjunct)

1997-2000 Associate Professor of Medicine (Cardiovascular) with tenure

1999-2000 Associate Professor of Immunobiology with tenure

2000- Professor of Medicine (Cardiovascular Medicine) & Immunobiology

2002- Robert I. Levy Professor of Preventive Cardiology

Administrative Positions:

1991-2003 Member, Molecular Cardiobiology Program, Boyer Center for Molecular Medicine

1992- Cardiovascular Fellows' Coordinator of Research, Yale School of Medicine, New Haven CT

1994- Associate Chief of Cardiovascular Medicine, Research

1995-2001 Director, Boyer Center for Molecular Medicine Junior Faculty Clinical Scholar's Program

2006-2009 Co-director, Cardiovascular Medicine Fellows' Clinic

2014-2021 Director, Yale Cardiovascular Research Center

2021- Senior Vice Chief for Academic Development, Cardiovascular Medicine

Board Certification:

1983- American Board of Internal Medicine - Internal Medicine

1986- American Board of Internal Medicine - Cardiovascular Medicine

Professional Honors & Recognition:

International/National/Regional

1979 Alpha Omega Alpha, University of California, San Francisco

1984-1986 National Research Service Award, NIH

1986-87 Advanced Research Fellowship Award, American Heart Association

1988-93 Clinical Investigator Award, NIH

1992 Young Investigator Award, American Heart Association Basic Science Council

1992-98 Sackler Foundation Award

1996 Election to American Society for Clinical Investigation

1998 Election to Interurban Clinical Club
1999 Election to American Heart Association Heritage Board of Directors
2001 Election to the Association of University Cardiologists
2002 Election to the Association of American Physicians
2005 Elected President, Interurban Clinical Club
2005- Appointed to Leadership Development Committee, American Heart Association Heritage Board
2006-07 Selected Chairman of American Heart Association Heritage Research Committee
2010 Elected to Association of University Cardiologists Council
2011 Appointed to ATVB Council Leadership Committee, American Heart Association
2011 Elected to National Research Committee, American Heart Association
2014-15 President, Association of University Cardiologists

University

1992 Andrew P. Mellon Award, Yale University School of Medicine
2002 Robert I. Levy Professorship (Yale University endowed chair)

Grant/Clinical Trials History:

Current Grants

Agency: NIH/NHLBI
ID#: 1R35HL150766-01
Title: Novel vascular smooth muscle cell progenitors in development and disease
PI: Greif, Daniel
Role on project: Co-Investigator
Percent effort: 3%
Total costs: \$1,003,982 (\$404,590 indirect)
Project period: 07/01/2020 – 06/30/2027

Agency: NIH/NEI
ID#: 1R43EY032840-01
Title: IL-23 and IL-17A mRNA-targeted oligonucleotide therapeutics in autoimmune uveitis
PI: Bender, Jeffrey (Subaward PI)
Percent effort: 1%
Total costs: \$35,594 (0 indirect)
Project period: 9/1/2021 – 8/31/2023

Agency: NIH/NIAMS
ID#: 1R21AR079591-01
Title: microRNA target site RNA-directed oligonucleotide topical therapeutics in psoriasis
PI: Bender, Jeffrey
Percent effort: 10%
Total costs: \$182,408 (\$73,508 indirect)
Project period: 7/1/2021 – 6/30/2023

Agency: NIH/DHHS
ID#: 1R21AI168968-01
Title: Immune cell skewing with RNA target site oligonucleotides to promote vascular smooth muscle homeostasis
PI: Bender, Jeffrey
Percent effort: 15%
Total costs: \$251,250 (\$101,250 indirect)
Project period: 11/10/2022 – 10/31/2024

Agency: NIH/NHLBI
ID#: T32HL007950
Title: Vascular Training Grant
PI: Bender, Jeffrey
Percent effort:
Total costs: \$582,512 (\$39,982 indirect)
Project Period: 9/30/2000 – 6/30/2026

Past Grants

Agency: NIH/NIAID
ID#: R21AI124116
Title: Modulation neuroinflammation through interference of cooperative microRNA-RNA-binding protein interactions
PI: Bender, Jeffrey
Percent effort:
Total costs: \$167,500 (\$67,500 indirect)
Project period: 6/1/2016 – 5/31/2018

Agency: NIH/NIGMS
ID#: 1R01GM126412-01
Title: Competitive macrophage microRNA-RNA binding protein interactions in wound repair
PI: Bender, Jeffrey
Percent effort:
Total costs: \$322,438 (\$129,938 indirect)
Project period: 04/01/2013 – 03/31/2018

Agency: NIH/NIAMS
ID#: 1R21AI124116-01A1
Title: Modulation neuroinflammation through interference of cooperative microRNA-RNA-binding protein interactions
PI: Bender, Jeffrey
Percent effort:
Total costs: \$292,979 (\$117,979 indirect)
Project period: 6/17/2016 – 5/31/2018

Agency: NIH/NHLBI
ID#: R01HL061782
Title: Molecular Models of Estrogen-induced Vascular Protection
PI: Bender, Jeffrey
Percent effort:
Total costs: \$372,375
Project period: 7/1/1999 – 3/31/2012

Agency: NIH/NHLBI
ID#: R01HL04331
Title: Molecular Models of Immune-mediated Vascular Injury
PI: Bender, Jeffrey
Percent effort:
Total costs: \$409,613 (\$162,113 indirect)
Project period: 4/1/1991 – 5/31/2013

Agency: NIH/NHLBI
ID#: P01HL070295
Title: An IFN- γ -Integrin-Growth Factor Axis in GA Biomarker Development
PI: Pober, Jordan
Role on Project: PI, Core
Percent effort:
Total costs: \$387,265 (0 indirect)
Project period:

Agency: NIH/NHLBI
ID#: R01HL052131
Title: Contact Dependent Endothelial Activation by NK Cells
PI: Bender, Jeffrey
Percent effort:
Total costs: \$324,248 (0 indirect)
Project period: 4/1/1995 – 3/31/2004

Agency:
ID#: K08HL002328
Title: Lymphocyte-Endothelial Cell Molecular Interactions
PI: Bender, Jeffrey
Role on Project: PI
Percent effort:
Total costs: \$66,133
Project period: 9/1/1988 – 8/31/1993

Invited Speaking Engagements, Presentations, Symposia & Workshops Not Affiliated with Yale:

International/National

1. "The molecular bases of lymphocyte-endothelial cell interactions: An in vitro model for allograft rejection." San Raffaele Scientific Institute, University of Milan, April 18, 1988.
2. "Mechanisms of lymphocyte-endothelial cell adhesion and cytotoxicity." Session Chairman. FASEB Summer Conference on Molecular Mechanisms of Bone Marrow Transplantation, Saxtons River, Vermont, July 16-21, 1989.
3. "Unstable angina: mechanisms of ischemia and injury." UCLA Symposium, La Costa, California. December 6-9, 1990.
4. "Interaction of lymphocytes with endothelium in transplantation arteriosclerosis." International Society for Applied Vascular Biology. St. Louis, MO., November 5-8, 1992.
5. "Molecular Mechanisms of Lymphocyte-Endothelial Cell Adhesion." Vanderbilt University, Nashville, TN., October 20-21, 1992.
6. "Effect of Estrogens on Leukocyte-Endothelial Cell Interactions." American Heart Association Scientific Sessions, Council on Circulation Colloquium, Dallas, TX., November 14, 1994.
7. "Genetic Diversity of Endothelial Activation." Department of Medicine, McGill University, Montreal, Quebec, Canada, December 9, 1994.

8. "Lymphocyte-Endothelial Cell Interactions: Models of Immune-Mediated Vascular Injury." Department of Medicine, Stanford University, February 8, 1996.
9. "NK Cell-Endothelial Cell Interactions in Vascular Immunity." Department of Immunology, Pasteur Institute, Paris, February 23, 1996.
10. "Effects of Estrogen on Endothelial Activation." Blood Vessel Club at the Experimental Biology/American Association of Immunologists Meeting, New Orleans, LA., June 2, 1996.
11. "Estrogen Effects on Nitric Oxide Synthases and Adhesion Molecules. Estrogen and the Blood Vessel Wall" Symposium, 9th International Vascular Biology Meeting, Seattle, WA., September 3-4, 1996.
12. "Regulation of Endothelial NOS by Estrogen." Nitric Oxide, Cytochromes P450 and Sexual Steroid Hormones Workshop, San Francisco, CA., October 9-11, 1996.
13. "Effects of Estrogen on Endothelial Activation." Blood Vessel Club at the Experimental Biology/American Association of Immunologists Meeting, New Orleans, LA., June 2, 1996.
14. "Estrogen Effects on Nitric Oxide Synthases and Adhesion Molecules." Estrogen and the Blood Vessel Wall Symposium, 9th International Vascular Biology Meeting, Seattle, WA., September 3-4, 1996.
15. "Endothelial Major Histocompatibility Complex Gene Expression and Protein Function: Clues to Vascular Activation and Injury." Keystone Symposium on Immunologic Aspects of Cardiovascular Disease, Keystone, CO., January 20-26, 1997.
16. "Lymphocytes and Cytokines in Atherogenesis." American Association of Immunology (AAI) Symposium on Immunity in Atherosclerosis. Seattle, WA., May 15, 2000.
17. "Molecular Imaging of the Vasculature." Cambridge University, Cambridge, England. December 13, 2001.
18. "Lymphocyte-mediated Endothelial Apoptosis." Cambridge University, Cambridge, England. December 13, 2001.
19. "Cardiovascular Protective Effects of Estrogen." Association of University Cardiologists, Phoenix, Arizona. January 10, 2002.
20. "Membrane Estrogen Receptors in Vascular Cells." FASEB Summer Conference on Membrane Steroid Hormone Receptors, Snow Mass, Colorado, June 2002.
21. "Vascular Targets for Molecular Imaging." American Society of Nuclear Cardiology, Squaw Valley, California, July 16, 2002.
22. "Vascular Structure and Function in Cardiovascular Inflammation." Symposium on Inflammation in Myocardial and Coronary Disease. University Hospital San Raffaele, Milan, Italy. October 9, 2002.
23. "Vascular Cell Signaling." American Heart Association Scientific Sessions (Session Chairman), Chicago, Illinois, November 2002.
24. "Nongenomic Effects of Estrogen on the Vasculature." Experimental Biology, San Diego, California, April 13, 2003.
25. "Membrane Estrogen Receptors in Vascular Endothelial Cells." Third International Meeting on Rapid Responses to Steroid Hormones. Florence, Italy. September 13, 2003.

26. "Cardiovascular Inflammation." University of Siena, Siena, Italy. September 15, 2003.
27. "Hormonal Effects on the Endothelium." University of Siena, Siena, Italy. September 15, 2003.
28. "Integration of Plasma Membrane- and Nuclear-initiated Signaling in Steroid Hormone Action." Session Chair, Vascular Biology. FASEB Summer Research Conference, Tucson, Arizona. July 31-August 05, 2004.
29. "Leukocyte Integrin-dependent Cytokine and Angiogenic Factor Gene Expression." Cambridge University, Cambridge, England. September 22, 2004.
30. "Truncated vs. Full-length Estrogen Receptors and Rapid Vascular Responses." Co-organizer and Co-chairman, 4th International Meeting on Rapid Responses to Steroid Hormones, San Diego, California, March 28-30, 2005.
31. "HRT and Vascular Cell Signaling: The Estrogen Conundrum." Frank N. Wilson Visiting Professor. University of Michigan, Ann Arbor, Michigan, May 9-10, 2005.
32. "Membrane Estrogen Receptors in the Cardiovascular System." Rapid Extranuclear Signaling Symposium, Endocrinology 2005. San Diego, California. June 4, 2005.
33. "Endothelial Responses to Estrogen." University of Chicago, October 25, 2005.
34. "Pathways for Damage to the Vasculature." 45th Annual Society of Toxicology Meeting. San Diego, California. March 8, 2006.
35. "Estrogen Receptor Variants and Vascular Responses." FASEB Summer Conference on Mechanisms of Action of Steroid Hormones; Integration of Membrane and Nucleus-initiated Effects. Conference Organizer and Co-Chairman. Tucson, Arizona, July 29-August 3, 2006.
36. "Integrins and T cell Gene Expression." Vita-Salute San Raffaele University School of Medicine, Milan, Italy. September 6, 2006.
37. "Membrane Estrogen Receptors in the Vascular System." 6th International Meeting on Rapid Responses to Steroid Hormones. Co-Organizer and Session Chairman. Dublin, Ireland, September 2-5, 2007.
38. "The Role of Truncated ER in Mediated Vascular Effects." FASEB Summer Conference on Extranuclear Steroid Receptors: Integration with Multiple Signaling Pathways. Program Committee Member and Session Chairman, Carefree, Arizona, July 27-August 1, 2008.
39. "Rapid Signaling through Vascular Cell Membrane Estrogen Receptors." Novel Estrogen Receptor Actions Symposium, at the Physiological Society International Meeting, Dublin, Ireland, July 8, 2009.
40. "Hormone and Lipid Effects on Endothelial Activation." Endowed Lectureship, University of Colorado School of Medicine, Denver, Colorado, February 19, 2010.
41. "Transmembrane Endothelial Estrogen Receptors." Rapid Responses to Steroid Hormones, Crete, Greece. September 15, 2011.
42. "Integrin-dependent Leukocyte Gene Expression in Vascular Remodeling and Angiogenesis." Keynote Lecture, International Cardiovascular 2016 Conference, Manchester England. August 1, 2016.

43. "Effects of estrogen on vascular function and health: Controversies in hormone replacement therapy." Speaker, International Cardiovascular 2016 Conference, Manchester England. August 1, 2016.

Regional

1. "Leukocyte-Endothelial Cell Adhesion: Integrin-cytoskeletal Interaction." NIH Symposium on the Role of Biological Response Modifiers in Molecular and Clinical Transfusion Medicine, Arlington, VA., September 9-10, 1993.
2. "Endothelial Estrogen Receptors and their Regulation." ASPET Colloquium at Experimental Biology 1996 Washington DC, April 18, 1996.
3. "Adhesive Glycoproteins in Vascular Biology" Session Moderator Intercouncil Working Group on Vascular Biology, American Heart Association 69th Scientific Sessions, November 10, 1996.
4. "The Vascular Endothelium: Stimulator and Target of Immune Responses." NIH National Institute of Allergy and Infectious Diseases Workshop on Systemic Vasculitis: Future Research Directions. Bethesda, MD., September 15, 1997.
5. "Adhesion-dependent Leukocyte-Endothelial Cell Activation." Department of Medicine, University of Pennsylvania, Philadelphia, PA., October 6, 1997.
6. "Endothelial NOS Regulation by Estrogen." Division of Molecular Cardiology, Tufts University School of Medicine, Boston, MA., November 7, 1997.
7. "Effects of Ovarian Hormones on Leukocyte-Endothelial Cell Interactions." Hormonal Influences on Vascular Inflammation and Immunity Symposium. Wake Forest University, Winston-Salem, NC., October 15, 1998.
8. "Effects of Estrogen of Endothelial Activation." Cardiac Branch, NHLBI, Bethesda, MD., November 23, 1998.
9. "Leukocyte-Endothelial Cell Interactions." Division of Cardiovascular Research, Pfizer Pharmaceuticals, Groton, CT., January 12, 1999.
10. "Regulation of eNOS in the Endothelium." Novartis Advisory Board Meeting for the Development of Aromatase Inhibitors. New York, NY., January 23, 1999.
11. "Effects of Estrogen on Nitric Oxide Release." NIH (NICHD) Symposium on Vasoactive Substances and Free Radicals in Prenatal Biology. Alexandria, VA., May 7, 1999.
12. "Imaging in Vascular Biology." American Society of Nuclear Cardiology. Bar Harbor, Maine, July 17, 2000.
13. "Lymphocyte Adhesion Receptors and Endothelial Activation; Models of Inflammation and Immune Responses." Department of Medicine, NYU School of Medicine, July 27, 2000.
14. "Effects of Estrogen on Vascular Inflammation." Graylyn Conference on Steroid Hormones in Cardiovascular Biology. Bowman Gray School of Medicine, Greensboro, North Carolina. October 13, 2000.
15. "Inflammatory and Hormonal Effects on the Endothelium." Ohio State University School of Medicine, Columbus, Ohio. June 4, 2001.

16. "Effects of Ovarian Steroid Hormones on Leukocyte Adhesion." Estrogen and Inflammation Symposium, American Society of Physiology, Pittsburgh, PA. October 19, 2001.
17. "Immune, Inflammatory and Hormonal Effects on the Endothelium." Massachusetts General Hospital, Boston, Massachusetts. February 10, 2003.
18. "Cardiovascular Inflammation-New Approaches to Cardiac Screening." Primary Care Update Conference. Danbury, Connecticut. April 26, 2003.
19. "Immune Responses in Cardiovascular Disease." NHLBI Symposium on Cardiovascular Outcomes in the Era of HAART. Herndon, Virginia, May 7, 2003.
20. "Leukocyte-Endothelial Cell Interactions." University of Virginia, Charlottesville, Virginia. December 8, 2003.
21. "Cardiovascular Inflammation." 40th Annual Robert M. Jeresaty Cardiovascular Symposium. Hartford, Connecticut. April 28, 2004.
22. "Molecular Targets for Atherosclerosis Imaging." NIH Cardiovascular Molecular Imaging Symposium (Organizing Committee). Bethesda, Maryland. May 4, 2004.
23. "Inflammatory Cytokines and the Cardiovascular System." Workshop on Inflammation, Inflammatory Mediators and Aging. NIH (National Institute on Aging). Bethesda, Maryland. September 2, 2004.
24. "Leukocyte Integrin Effects on Cytokine and Angiogenic Factor Gene Expression through RNA-protein interactions." Boehringer-Ingelheim Pharmaceutical, Ridgefield, Connecticut. October 29, 2004.
25. "Hormone Replacement Therapy and Vascular Signaling: The Estrogen Conundrum." Cardiovascular Medicine Grand Rounds, Brigham and Women's Hospital, Boston, Massachusetts. January 6, 2005.
26. "Leukocyte Integrin-dependent Cytokine and Angiogenic Factor Gene Expression." Vascular Biology Seminar Series, Brigham and Women's Hospital, Boston, Massachusetts. January 6, 2005.
27. "Integrin-dependent Cytokine and Angiogenic Factor Gene Expression: Relevance in Vascular Remodeling and Angiogenesis." Cardiovascular Research Seminar Series. Albert Einstein College of Medicine, Bronx, New York. May 25, 2005.
28. "New approaches to Vascular Remodeling and Angiogenesis." Cardiology Grand Rounds, Tufts-New England Medical Center, Boston, Massachusetts, May 11, 2006.
29. "Cytokine and Angiogenic Factor Gene Expression; relevance in vascular remodeling and angiogenesis." Cardiology Grand Rounds, University of Massachusetts Medical School, Worcester, Massachusetts. August 28, 2006.
30. "Vascular Cell Signaling by Membrane Estrogen Receptors. NIH Strategic Planning Workshop on Regulation of Inflammatory Responses: Influence of Sex and Gender." Bethesda, Maryland, September 19, 2006.
31. "Effect of HuR Gene Deletion in Vascular Pathology Models." Boehringer Ingelheim, Ridgefield, Connecticut, May 9, 2007.
32. "Cytokine and Angiogenic Factor Gene Expression in Vascular Remodeling and Angiogenesis." Cardiology Grand Rounds, NYU School of Medicine, New York, NY. December 7, 2007.

33. "Endothelial Membrane Estrogen Receptors: Splice Forms and Relevance in Cardiovascular Pathology." State-of-the-Art Presentation at the 35th Annual Meeting of the International Aldosterone Conference. Washington D.C., June 8, 2009.
34. "Localization of Endothelial Membrane Estrogen Receptors." FASEB Summer Research Conference on the Physiology of Integrated Nuclear and Extranuclear Steroid Signaling. August 8-13, 2010.
35. "Leukocyte Integrin-dependent Gene Expression." Cardiovascular Research Institute Seminar, Morehouse School of Medicine, Atlanta, Georgia, May 9, 2013.
36. "Signaling Surprises in Endothelial Membrane Estrogen Receptors." Speaker and Session Chair, Response to Steroid Hormones International Meeting, Erie, Pennsylvania, September 20, 2013.
37. "Role of Macrophage Integrin-dependent signaling in Ischemia Arteriogenesis." Cardiology Grand Rounds, Columbia School of Medicine, New York, New York, December 3, 2013.
38. "Integrin-dependent Leukocyte Gene Expression in Vascular Remodeling and Angiogenesis." Keynote Speaker, South Carolina Medical Student Research Day, Spartanburg, South Carolina, March 30, 2018.

Professional Service

Peer Review Groups/Grant Study Sections:

1991-1994	American Heart Association (New England Region Peer Review Consortium)
1995	Affiliate Study Group (National Committee) 1995
1995-1996	National Heart, Lung and Blood Institute Ad Hoc Reviewer and Consultant,
1996	American Heart Association National Study Section- Vascular Cell Biology
1997	National Heart, Lung and Blood Institute, Pathology A Study Section Member
1998	American Heart Association Special Review, Greater Los Angeles Multi-disciplinary Research Program
1999	National Heart, Lung and Blood Institute, Surgery, Anesthesiology & Trauma (Transplantation) Study Section,
2002-2004	National Heart, Lung and Blood Institute, Surgery, Anesthesiology & Trauma (Transplantation) Study Section,
2008	National Heart, Lung and Blood Institute, Special Emphasis Panel for K99/R00 Pathway to Independence Awards,
2008	American Heart Association Innovative Grant Review Committee

Journals:

Editorial Boards

??? Circulation Research, Circulation

Reviewer

2020-2021 *Journal of Immunology, Circulation, Cancer Research, Circulation Research, American Journal of Pathology, Journal of Clinical Investigation, Proceedings of National Academy of Sciences, USA, Journal of Cell Biology, American Journal of Physiology, Microcirculation, Nature Medicine, Immunity*

Professional Organizations:

1980-	Diplomate, National Board of Medical Examiners
1983-	Diplomate, American Board of Internal Medicine
1995-	Member, Physicians for Social Responsibility
1995-	Member, International Society for Heart Transplantation
1986-	Diplomate, American Board of Internal Medicine, Cardiovascular Subspecialty Board

1988- American Heart Association, Basic Science and Circulation Councils
1989- Member, American Federation for Clinical Research
1990- Member, American Association of Immunologists
1992- Fellow, American College of Cardiology
1996- American Society for Clinical Investigation
1998- Member, Interurban Clinical Club
2001- Fellow of Council on Basic Cardiovascular Science, American Heart Association
2002- Association of University Cardiologists
2002- Association of American Physicians
2012-2015 Member, American Heart Association National Research Committee
2005-2007 Leadership Development Committee, American Heart Association Heritage Board
2006-2007 Chairman, American Heart Association Heritage Research Committee
2007-2009 Member, American Heart Association Founders Research Committee
2007-2009 Member, American Heart Association Region I Steering Committee

Yale University/Hospital System:

Medical School Committees

2002- Member Steering Committee, Interdepartmental Program in Vascular Biology and Therapeutics
2002- Attending and Faculty Advisor, Neighborhood Health Project (Yale medical student-run)
2006- Faculty Advisor, Yale Journal of Biology and Medicine
2014- Member, YSM Thesis Awards Committee
2015- Yale School of Medicine Dean's Faculty Advisory Council (Inaugural Chair, 2015-17)

Bibliography:

Peer-Reviewed Original Research

1. **Bender, J.R.**, Pardi, R., Karasek, M., Engleman, E.: Functional and phenotypic characteristics of lymphocytes that bind human microvascular endothelial cells in vitro. Evidence for preferential binding by natural killer cells. J. Clin. Invest. 79:1679-1688, 1987. PMID: 3495552 PMCID: [PMC424501](#)
2. Pardi, R., **Bender, J.R.**, Engleman, E.: Lymphocyte subsets differentially induce class II human leukocyte antigens on allogeneic microvascular endothelial cells. J. Immunol. 139:2585-2592, 1987. PMID: 3116086
3. Damle, N.K., **Bender, J.R.**, Doyle, L., Bradley, E.: IL-2 activated human lymphocytes exhibit enhanced adhesion to normal vascular endothelial cells and cause their lysis. J. Immunol. 138:1779-1785, 1987. PMID: 3493287
4. Rouse, R.V., Bolin, L.M., **Bender, J.R.**, Kyewski, B.A.: Monoclonal antibodies reactive with subsets of mouse and human thymic epithelial cells. J. Histochem. Cytochem. 36:1511-1517, 1988. PMID: 2461413
5. **Bender, J.R.**, Pardi, R., Kosek, J., Engleman, E.: Cytotoxic lymphocytes morphologically alter and traverse endothelial cell monolayers. Transplantation. 47:1047-1053, 1989. PMID: 2461413
6. Pardi, R., **Bender, J.R.**, Dettori, C., Giannazza, E., Engleman, E.: Heterogeneous distribution and transmembrane signaling properties of lymphocyte function associated antigen-1 (LFA-1) in human lymphocyte subsets. J. Immunol. 143:3157-3166, 1989. PMID: 2553807

7. **Bender, J.R.**, Pardi, R., Engleman, E.: Antigen specific T cell receptor negative natural killer cells cytotoxic for microvascular endothelium. Proc. Natl. Acad. Sci., USA. 87:6949-6953, 1990. PMID: 2402485
8. Suzuki, N., Bianchi, E., Bass, H., Suzuki, T., **Bender, J.R.**, Pardi, R., Brenner, C., Larrick, J., Engleman, E.: Natural killer lines and clones with apparent antigen specificity. J. Exp. Med. 172:457-462, 1990. PMCID: PMC2188332
9. **Bender, J.R.**, Tackett, L., Pardi, R.: Endothelial cell class II HLA expression induced by cytotoxic lymphocytes is regulated by genetically determined differences in CD11a/CD18. Transplant. Proc. 23:99-100, 1991. PMID: 1671312
10. Pardi, R., **Bender, J.R.**: Signal requirements for the generation of CD4+ and CD8+ T cell responses to human allogeneic microvascular endothelium. Circ. Res. 69:1269-1279, 1991. PMID: 1934357
11. Inverardi, L., Samaja, M., Marelli, F., **Bender, J.R.**, Pardi, R.: Cellular early immune recognition of xenogeneic vascular endothelium. Transplant. Proc. 24:459-461, 1992. PMID: 1566390
12. Pardi, R., Inverardi, L., Rugarli, C., **Bender, J.R.**: Antigen receptor complex stimulation triggers protein-kinase C dependent CD11a/CD18-cytoskeleton association in T lymphocytes. J. Cell. Biol., 116:1211-1220, 1992. PMID: 1346786
13. Inverardi, L., Samaja, M., Motterlini, R., Mangili, F., **Bender, J.R.**, Pardi, R.: Early recognition of a discordant xenogeneic organ by human circulating lymphocytes. Ex vivo studies. J. Immunol. 149:1416-1423, 1992. PMID: 1386865 PMCID: PMC2289356
14. Petzelbauer, P., **Bender, J.R.**, Wilson, J., Pober, J.S.: Heterogeneity of dermal microvascular endothelial cell antigen expression and cytokine responsiveness in situ and in cell culture. J. Immunol. 151:5062-5072, 1993. PMID: 7691964 PMCID: PMC43709
15. **Bender, J.R.**, Sadeghi, M.M., Watson, C., Pfau, S., Pardi, R.: Heterogeneous activation thresholds to cytokines in genetically distinct endothelial cells; evidence for diverse transcriptional responses. Proc. Natl. Acad. Sci., USA. 91:3994-3998 1994. PMID: 7513430 PMCID: PMC43709
16. Haggerty, J., Hough-Monroe, L., Kugelman, L., **Bender, J.R.**, Milstone, L.: Epican, a heparin sulfate proteoglycan form of CD44, causes cell-cell adhesion. J. Cell. Sci. 107:3183-3190, 1994. PMID: 7699015
17. Weiss, R.R., Whitaker-Menezes, D., Longley, J., **Bender, J.R.**, Murphy, G.F.: Human dermal endothelial cells express membrane-associated mast cell growth factor. J. Invest. Dermatol. 104:101-106, 1995. PMID: 7528242
18. Pfau, S., Leitenberg, D., Rinder, H., Smith, B., Pardi, R., **Bender, J.R.**: Lymphocyte adhesion-dependent calcium signaling in human endothelial cells. J. Cell. Biol., 128:969-978, 1995. PMID: 7533170 PMCID: PMC2120392
19. Watson, C., Petzelbauer, P.P., Zhou, J., Pardi, R., **Bender, J.R.**: Contact-dependent endothelial class II gene activation induced by natural killer cells is mediated by IFN- γ -dependent and -independent mechanisms. J. Immunol. 154:3222-3233, 1995. PMID: 7897208
20. Pardi, R., Bossi, G., Inverardi, L., Rovida, E., **Bender, J.R.**: Conserved regions in the cytoplasmic domains of the leukocyte integrin α L/ β 2 (LFA-1) are involved in endoplasmic reticulum retention, dimerization and cytoskeletal association. J. Immunol. 155:1252-1263, 1995. PMID:7636193

21. Rovere, P., Inverardi, L., **Bender, J.R.**, Pardi, R.: Feedback modulation of ligand-engaged α L/ β 2 leukocyte integrin (LFA-1) by cyclic AMP-dependent protein kinase. J. Immunol. 156:2273-2279, 1996. PMID:8690918
22. Caulin-Glaser, T., Watson, C., Pardi, R., **Bender, J.R.**: Effects of 17 β -estradiol on cytokine-induced endothelial cell adhesion molecule expression. J. Clin. Invest. 98:36-42, 1996. PMID:8690801
23. Bianchi, E., Ferrero, E., Fazioli, F., Mangili, F., Wang, J., **Bender, J.R.**, Blasi, F., Pardi, R.: Integrin-dependent induction of functional urokinase receptors in primary T lymphocytes. J. Clin. Invest. 3:1133-1141, 1996. PMID:8787676 PMCID: PMC507535
24. Inverardi, L., Clissi, B., Stolzer, A., **Bender, J.R.**, Pardi, R.: Endothelial carbohydrate neopeptides recognized by human natural killer lymphocytes. Transplant Proc. 28:552-553, 1996. PMID: 8623263
25. Ferrero, E., Villa, A., Ferrero, M.E., Toninelli, E., **Bender, J.R.**, Pardi, R., Zocchi, M.R.: Tumor necrosis factor alpha-induced vascular leakage involves PECAM-1 phosphorylation. Cancer Research. 56:3211-3215, 1996. PMID: 8764109
26. Inverardi, L., **Bender, J.R.**, Pardi, R.: Human natural killer cells directly recognize evolutionarily conserved oligosaccharide ligands expressed by xenogeneic tissues. Transplantation. 63:1218-1330, 1997. PMID: 9158028
27. Blum, M.S., Balda, M.S., Anderson, J.M., **Bender, J.R.**: The actin cytoskeleton regulates human endothelial cell tight junction modulation induced by cytokines. Am. J. Physiol. 273:H286-H294, 1997. PMID: 9249502
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