**VASILIS VASILIOU, Ph.D.**

# Curriculum Vitae

**GENERAL/PERSONAL INFORMATION**

Work Address: Department of Environmental Health Sciences,

Yale School of Public Health,

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Home Address: 1158 Jennifers Drive

 Guilford, CT

 Phone: (303) 730-3998

*Marital Status*: Married (November 24, 1990)

*Spouse Name*: Maria Vasioti

*Children*: Konstantinos, Melpomene, Panorea, Zisis, and Ares

**EDUCATION**

1979-1983 **B.S., Chemistry,** School of Natural Sciences, University of Ioannina, Greece.

1983-1988 **Ph.D., Biochemistry,** Medical School, University of Ioannina, Greece.

1988-1990 **Postdoctoral training in Pharmacology**, University of Ioannina, Greece.

* 1. **Postdoctoral training in Molecular Toxicology & Pharmacogenetics**, University of Cincinnati, OH.

2015 **Masters of Arts Privatim,** Yale University (honorary degree).

#### ACADEMIC APPOINTMENTS

2018- **Susan Dwight Bliss** **Professor of Epidemiology**, Yale School of Public Health, Yale School of Medicine, New Haven, Connecticut.

2014- **Professor and Chair** (primary appointment tenured),Department of Environmental Health Sciences, Yale School of Public Health, Yale School of Medicine, New Haven, Connecticut.

2014- **Professor** (secondary appointment), Department of Ophthalmology & Visual Sciences, Yale Medical School, New Haven, Connecticut.

2007-2014 **Professor** (primary appointment tenured),Department of Pharmaceutical Sciences, School of Pharmacy, University of Colorado Health Sciences Center, Denver, Colorado.

2008-2014 **Professor** (secondary appointment), Department of Ophthalmology, Medical School, University of Colorado Health Sciences Center, Denver, Colorado.

2001-2007 **Associate Professor,** Department of Pharmaceutical Sciences, School of Pharmacy, University of Colorado Health Sciences Center, Denver, Colorado.

2001- 2014 **Director** of the Molecular Toxicology and Environmental Health Sciences Program, School of Pharmacy, University of Colorado Health Sciences Center, Denver, Colorado.

2000- 2001 **Associate Director** of the Molecular Toxicology and Environmental Health Sciences Program, School of Pharmacy, University of Colorado Health Sciences Center, Denver, Colorado.

1996-2001 **Assistant Professor,** Department of Pharmaceutical Sciences, School of Pharmacy, University of Colorado Health Sciences Center, Denver, Colorado.

1994-1995 **Research Associate**, Laboratory of Molecular Toxicology, Department of Environmental Health, University of Cincinnati Medical Center, Ohio, USA.

**PROFESSIONAL EXPERIENCE**

2017-2018 Member of the National Academies of Sciences, Engineering, and Medicine’s Committee to Review Report on Long-Term Health Effects on Army Test Subjects.

2016- Discusant of EPA’s Integrated Risk Information System (IRIS) Toxicological Review of Ethyl tert-Butyl Ether (ETBE).

2005-2006 **Guest Scientist**, Laboratory of Molecular and Developmental Biology, National Eye Institute, NIH, Bethesda, MD.

1991-1993 **Postdoctoral Fogarty Fellow**, Laboratory of Molecular Toxicology, Department of Environmental Health, University of Cincinnati Medical Center, Ohio, USA (Mentor: Dan W. Nebert).

1989-1990 **Service in Greek Army** as a Postdoctoral Research Fellow, Department of Pharmacology, Medical School, University of Ioannina, Greece (Mentor: Marios Marselos).

1984 **Visiting Fellow** (3 months), Departments of Physiology and Pharmacology & Toxicology, University of Kuopio, Finland (Mentors: Osmo Hanninen and Matti Lang).

**TEACHING**

**Past (School of Pharmacy, Graduate School and School of Medicine, University of Colorado)**

Principle of Drug Action (Pharmacogenetics) for Pharmacy and PharmD students

Toxicology for Pharmacy students (1997-2000)- (Course Coordinator 2r course)Clinical Sciences Foundation: Organ and Clinical Toxicology 2000-2014 (8 hrs and Course Director).

Graduate Toxicology Core Course I (2000-2014) – 3 credits, (2 hrs)

Graduate Toxicology Core Course II (2000-2014) – 3 credit (4 hrs).

Graduate Drug Metabolism and Pharmacogenetics (1998-2014)- 3 credits (8 hs plus coordination)

Instructional Methods 2 (P2) (Course co-ordination)

Graduate Course in Principles of Toxicology. Molecular and Biochemical Mechanisms (1993-2000)

Graduate course in Organ Systems Toxicity (2 credits). Responsible for 6 hrs.

Graduate course in Occupational Toxicology (2 credits). Responsible for 4 hrs.

Graduate Course in Cancer Biology (2 credits). Responsible for 2hrs.

Graduate Course in Pharmacology (3cr). Responsible for 2 hrs.

**TEACHING**

**Current (Yale School of Public Health)**

Public Health Toxicology Course for MPH and PhD students (2016-2017)

**ADVISING**

**MPH Students (at Yale School of Public Health)**

Nathan Kloczko, Girish Motwani, 2015-2016; Lyndsay Gavin, Dan Huang, Alaina Perkins, Emma Ryan2016-2017; Nina Hatch, Hongwei Song, 2017-2018.

**ADVISING**

## Ph.D. Students directed (at University of Colorado)

Heather Marks-Hull (Toxicology, 1996), M.S. awarded 1997 (Advisor).

Tia Estey (Pharm. Sciences), PhD. Awarded in 2007 (Co-Advisor).

Natalie Lassen (Toxicology Program), Ph.D. Awarded 2007 (Advisor).

Miriam Cantore (Pharmacology, Firenze, Italy), Ph.D. Awarded in 2009 (Co-Advisor).

Satori Waddle (Toxicology Program), Ph.D. Awarded in 2010 (Advisor).

William Black (Toxicology Program), Ph.D. Awarded in 2011(Advisor).

Gurav Mehta (Toxicology Program), MS Awarded in 2011 (Advisor).

Brocker Chad (Toxicology Program), Ph.D. Awarded in 2012 (Advisor).

Vindhya Koppaka (Toxicology Program), Ph.D. Awarded in 2013 (Advisor).

Surendra Singh (Toxicology Program), Ph.D. Awarded in May 2014 (Advisor).

Brian Jackson (Toxicology Program), Ph.D. Awarded in 2015 (Advisor).

Claire Heit (Toxicology Program), Ph.D. Awarded in 2016 (Advisor).

**Ph.D. Students directed (Yale)**

Yewei Wang (EHS) (Advisor 2017-)

Becky Bely Byler (Enginnerining) (Co-Advisor 2017-)

Brian Thompson (EHS) (Advisor 2018-)

Emily Davidson (EHS) (Advisor 2018-)

## Postdoctoral Fellows - Past

Tomas Ziegler, 1999-2001; Current, Research Scientist at Geological Survey, Denver Colorado.

Jaqueline Wallisser, 2000-2001; Current Study Director, Safety Pharmacology at Covance Laboratories, Madison, Wisconsin.

Rizwan Manzer, 2001-2002; Current, Research Associate at National Jewish Hospital, Denver Colorado.

Manolis Merkouris, 2000-2003; Current, Research Scientist at Democritus Res. Institute, Athens Greece.

Aglaia Pappa, 2000-2004; Current, Assistant Professor, Department of Molecular Biology and Genetics Democritus University of Thrace, Greece (apappa@mbg.duth.gr).

Dimitrios Stagos, 2007-2009; Current, Assistant Professor, University of Thessaly, Greece. (stagkos@med.uth.gr).

Akiko Matsumoto, 2009-2011, Current, Assistant Professor, Saga University, Japan, matsumoa@cc.saga-u.ac.jp.

Hongbin Dong, 2013- 2016 (hongbing.dong@yale.edu), University of Dayton.

Stephanie Marshall, 2015-2017 (Stephanie.marshall@yale.edu)

Surendra Singh, 2015-2018 (surendra.singh@yale.edu)

**Current**

Ying Chen, 2009-2010; Current, Research Scientist Yale School of Public Health (ying.chen@yale.edu)

Georgia Charkoftaki, 2015- Research Scientist Yale School of Public Health (Georgia.Charkoftaki@yale.edu)

Yewei Wang, 2015- (yewei.wang@yale.edu)

**Junior Faculty Development**

Career development co-mentor in Dr. Aquilante’s K23 award (Now Associate Professor, University of Colorado).

Andrew Monte, Assistant Professor, Emergency Medicine & Medical Toxicology, University of Colorado Denver, 2011-present. Co-Mentor in his K23 award 2014-2018.

Ying Chen, Associate Scientist, Department of Environmental Health Sciences, Yale School of Public Health, 2011-present, Mentor (K01 award 2016-2020).

**Graduate Student Committees - University of Colorado**

Michail Panagiotidis (Toxicology), Ph.D. in 2004 (Chair of the Advisory committee).

John Reichard (Toxicology), Ph.D. in 2004 (Member of the Advisory Committee).

Brante Sampey (Toxicology), Ph.D. in 2005 (Member of the Advisory Committee).

Kariya Chirag (Toxicology), Ph.D. in 2007 (Chair of the Advisory Committee).

Dan McShan (Bioinformatics), Ph.D. candidate (Member of the Advisory Committee).

Srirupa Roy (Toxicology), Ph.D. in 2008 (Member of the Advisory Committee).

Hongfei Zhou (Toxicology), Ph.D. 2010 (Member of the Advisory Committee).

Becky Smathers (Toxicology), Ph.D. candidate (Member of the Advisory Committee).

Samiha Mateen (Toxicology), Ph.D. In 2012 (Member of the Advisory Committee).

James Galligan (Pharmacology) Ph.D. in 2012 (Member of the Advisory Committee).

Swetha Inturi (Toxicology), Ph.D. in 2013 (Member of the Advisory Committee).

Shrotriya, Sangeta (Toxicology), Ph.D. in 2013 (Chair of the Advisory Committee).

Derry Molly (Toxicology), Ph.D. in 2013 (Chair of the Advisory Committee).

**Undergraduate researchers**

Itay Melamed, (MD student), summer student, 1997; Scott Ostriker (4th year Pharmacy student),1996-1997; Lumunita Chang (4th year Pharmacy student), 1999; Alison Veto (UCD`), 2001-2002; 2004; Qui Trong, (UCD), 2002-2004; Phil Weston (UC) 2004-2005; Stella Polycarpou (DU), 2011-2012; Chris Carpenter 2012-2014; Melpomene Vasiliou (CU) 2013-present; Fay Walker (CU) 2014.

**High School Students**

Chris Carpenter 2009-2011; Konstandinos Vasiliou, 2099-2012; Ayathi Apostolopoulos, 2011; Sarah Carpenter, 2011-2012; Melpomene Vasiliou, 2011-2013; Karan Agarwal, 2013; Jared Alswang, 2012-2013; Antonia Papadima (summer 2017).

**ADMINISTRATIVE ACTIVITY AND UNIVERSITY SERVICE**

Yale School of Public Health Committees

Member Appointments & Promotions Committee (2014-present).

Member, Executive Committee of the Climate Change and Health Initiative (2015-present).

Chair and Member of the Stolwijk Fellowship Committee (2014-present).

Curriculum Revision Committee (2017)

Yale Comprehensive Cancer Center

Member, Shared Resource Oversight Committee (2015-present).

Member, Developmental Therapeutics (2014-present).

Yale Campus-Wide

 Member of the Scientific Advisory Board Yale Tobacco Centers on Regulatory Science (TCORS).

UCAMC-School of Pharmacy (1996-2014)

 Member of the DOPS Space Committee (1996-1999).

 Ethics Committee (1999-2002).

 New Curriculum Design, Basic Sciences Course, (1998).

 Development of the new curriculum for the Toxicology Graduate Program (2001).

 Associate Director of the Toxicology Graduate Program (2000-2001).

 Director of the Toxicology Graduate Program (2001-present).

 Member of the DOPS SOP APT committee (2004-2005; 2007-2008).

 Adhoc member of the DOCP (SOP) APT committee (2006-2007).

 Chair of the Clinical/Translational Search Committee (2007).

 Dean’s Review APT Committee (2008-2011).

Chair of DOPS/SOP APT committee (2011-2013).

Dean’s Review APT Committee, Chair (2013-2014).

Associate Dean for Research Advisory Committee (2014).

UCAMC-Campus-wide (1996-2014)

 New Research Building Committee (1996).

 Resource Needs, Infrastructure, and Development Task Force (2007).

 Member of the Search Committee for Director of Research (Department of Ophthalmology (2007).

 Graduate School Dean Search Committee (2009-2010).

 Environmental Toxicologist Search Committee, Dept of Biology, UCD (2009).

**SPECIAL ASSIGNMENTS**

 DOPS Toxicology Program Seminar Series (1998-2003, 2005-2008).

 Chair of Toxicology subcommittee for changes in the Graduate Curriculum (2000).

**MEBER OF PROFESSIONAL ORGANIZATIONS**

The Sociatey of Toxicology (SOT)

The Association for Research in Vision and Ophthalmology (ARVO)

The American Society of Human Genetics (ASHG)

The International Society for Developmental Origins of Health and Disease (DOHAD)

**SERVICE IN PROFESSIONAL ORGANIZATIONS**

 Vice-President of MWSOT Regional Chapter (2007-2008).

 President of MWSOT Regional Chapter (2008-2009).

 Member of the Career Resource and Development Committee of SOT (2009-2012).

 Councilor Mechanism Specialty Section of SOT (2010-2012).

 Councilor Ocular Toxicity Specialty Section of SOT (2010-2012).

 VP-Elect Mechanism Specialty Section of SOT (2012-2013).

 Vice President Mechanism Specialty Section of SOT (2012-2013).

 President Mechanism Specialty Section of SOT (2013-2014).

Past President Mechanism Specialty Section of SOT (2014-2015).

**AWARDS, HONORS**

1984 Research Scholarship, University of Kuopio, Finland.

1991-1993 International Research Fellowship, Fogarty International Center, NIH.

1998- IUPAC-IUBMB JBN ALDH Gene Nomenclature Committee.

2001 Teacher of the Year Award (selected by the Pharmacy First Professional Year Class).

2006 Travel Award ISBRA.

2011 Dean’s Mentoring Award, University of Colorado AMC Graduate School.

2012 Travel Award ISBRA.

2013 John and Barbara Shell Prize for Excellence in Research and Graduate Education.

2014 Faculty Sponsor Award, University of Colorado AMC Graduate School.

**INVITED SPEAKER IN MEETINGS**

1. Enzymology and Molecular Biology of Carbonyl Metabolism 6, June 1992, Dublin, Ireland.
2. Enzymology and Molecular Biology of Carbonyl Metabolism 7, June 1994, New Palmerston, New Zealand.
3. "Workshop on Drug Metabolism and Toxicity in Balkan Countries", October 1995, Ioannina, Greece.
4. Enzymology and Molecular Biology of Carbonyl Metabolism 8, July 1996, Deadwood, SD, U.S.A.
5. The Midwest Cytochrome P-450 Symposium, September 1997, Purdue, Indiana, U.S.A.
6. Enzymology and Molecular Biology of Carbonyl Metabolism 9, July 1998, Varallo Sesia, Italy
7. 15th Annual Meeting of the Mountain West Chapter of the Society of Toxicology, October 1997, Taos, New Mexico, U.S.A.
8. 17th Annual Meeting of Mountain West Chapter of the Society of Toxicology, September 1999, Breckenridge, Colorado, U.S.A.
9. Enzymology and Molecular Biology of Carbonyl Metabolism 10, July 2000, Taos, NM, U.S.A.
10. Symposium speaker, 40th Annual Society of Toxicology Meeting, March 2001, San Francisco, CA, U.S.A.
11. Symposium speaker at the ISSX 2003.
12. Symposium speaker, 3rdAnnual Meeting of the International Society of Pharmacogenomics, October 1-5 2004, Santorini, Greece.
13. 22nd Annual Meeting of Mountain West Chapter of the Society of Toxicology, September 2004, Park City, Utah, U.S.A.
14. Enzymology and Molecular Biology of Carbonyl Metabolism 11, July 2004, Burlington, VT, U.S.A.
15. Symposium speaker and Co-Clair, [ISBRA 2006 World Congress on Alcohol Research, September 2006, Sydney, Australia](http://www.isbra2006.com/).
16. Symposium speaker and Co-Chair, XVII International Congress of Eye Research, November 2006, Buenos Aires, Argentina.
17. “The Protective Role of ALDH3A1 and ALDH1A1 against Ocular Damage”, Pacific Ocular Regenerative Biology Conference XII, September 16-19, 2007, Laguna Beach, CA, USA
18. "Non-P450 alcohol and aldehyde metabolizing enzymes" Gordon Conference on “DRUG METABOLISM**”,** July 8-13, 2007 Holderness School Holderness, NH, USA.
19. Symposium speaker, RSA/ISBRA joint meeting, June-July 2008, Washington, DC, USA.
20. Golden Helix Symposium, “Pharmacogenomics: Paving the path to personalized medicine”, October 15th-17th, 2009, Athens, Greece.
21. Symposium speaker, Global Hellenic Medical & Biosciences Network (GHMBN), September 3-5, 2009, Lagonisi, Athens, Greece.
22. Symposium speaker, ESBRA meetings, June 2009, Helsinki, Finland.
23. Symposium speaker, ISER meeting, July 2010, Montreal, Canada.
24. Symposium speaker, CLAO and Eye and Contact Lens Symposium on Ultraviolet Radiation and its Effects on the Human Eye, September 2010, Las Vegas, NV, USA.
25. Symposium speaker, *2nd Asia Cornea Society Biennial Scientific Meeting, December 2010, Osaka, Japan.*
26. Symposium speaker, Satellite Meeting: Cornea Research Conference, *December 2010, Osaka, Japan.*
27. Enzymology and Molecular Biology of Carbonyl Metabolism 16, July 201, Ploen, Germany.
28. Symposium speaker, ISER meeting, July 2012, Berlin, Germany.
29. Symposium speaker, ISBRA meetings, September 2012, Sapporo, Japan.
30. Symposium speaker, 18th North American ISSX Meeting, October 2012, Dallas, TX.
31. Symposium speaker, 5th Pan Arab Human Genetics Conference 2013, November 2013, Dubai, United Arab Emirates.
32. The 17th International Conference on Enzymology and Molecular Biology of Carbonyl Metabolism, July 2014, Poconos, PA, U.S.A.
33. Symposium speaker, The 50th Congress of the European Societies of Toxicology (EUROTOX). Edinburgh, UK September 2014
34. Symposium Speaker, 10th International Symposium on Alcoholic and Pancreatic Diseases and Cirrhosis, Chile, September 2015
35. The 18th International Conference on Enzymology and Molecular Biology of Carbonyl Metabolism, Barcelona Spain, July 2016.
36. Symposium speaker, ISER Congress, September 2016, Tokyo, Japan.
37. Seminar Speaker, Fall/Winter 2016-2017 Pharmacology Seminar Series, Weill Cornell Medicine, December 2016, New York, NY
38. Symposium speaker, Gordon Research Conference, Alchohol-Induced End Organ Diseases-“Metabolic Reprogramming and Molecular Mechanisms of Tissue Injury by Alcohol, March 2017, Ventura, CA.
39. Symposium speaker, Annual RSA Scientific Meeting, Denver Colorado, June 2017.
40. **Symposium Speaker, Metabolomics in Translational Research’**, Waters Tecnonogy Summit, Georgetown University, July 2017.
41. Plenary Lecture, ESBRA Congress, October 2017, Herakleion, Greece, October 2017.
42. Symposium speaker, ESBRA Congress, October 2017, Herakleion, Greece, October 2017.
43. Symposium speaker, 100 Years of Ocular Sulfur Mustard: Models, Mechanisms and Therapeutics) Monday, 20 November 2017.
44. Kenote speaker, 1st Zayed Center Genomic Medicine Workshop & the 20th Golden Helix Pharmacogenomics Day, College of Medicine and Health Sciences, Tawam Campus, Al-Ain, UAEU, 2 February 2018.
45. Kenote speaker, UAEU Research and Innovation Conference 2018, Future Engineering and Well-being of UAE, College, College of IT , Tawam Campus, Al-Ain, UAEU, 5 February 2018.
46. Keynote speaker, China-ASEAN Heath Youth Forum, The 2nd China ASEAN Forumon Health Cooperation:Towardsa Health Silk Road, Nanning, Guanxi, China, September 19-21, 2018.

**INVITED SEMINARS**

1. Induction of Aldehyde Dehydrogenases by Chemical Carcinogens. Department of Physiology, University of Kuopio, Finland, September 20, 1990.
2. The mouse [*Ah]* Gene Battery: Positive and Negative Control of Gene Expression. University of Ioannina Medical School, July 16-1992.
3. Aldehyde dehydrogenase gene expression: an example of positive and negative regulation. International Agency for Research on Cancer, Lyon, France, October 6, 1993.
4. Organization and Characterization of the Murine Cytosolic TCDD-inducible Aldehyde Dehydrogenase Gene. University of Ioannina Medical School, October 15, 1993.
5. Murine Dioxin-Inducible Class 3 Aldehyde Dehydrogenase: Regulation of Gene Expression. Environmental Toxicology Center, University of Wisconsin, U.S.A., March 31, 1994.
6. Aldehyde Dehydrogenases and Environnemental Oxidative Stress. Center for Environmental Genetics, University of Cincinnati Medical Center, U.S.A., April 11, 1995.
7. Negative Regulation of the [Ah] Gene Battery: An Update. The 1997 Midwest Cytochromes P450 Symposium. Purdue University, West Lafayette, Indiana, U.S.A., September 25-26, 1997.
8. Polymorphisms of Human Alcohol and Aldehyde Dehydrogenases. Toxicology Program, University of Cincinnati Medical Center, Cincinnati, Ohio, U.S.A., March 1, 2000.
9. Role of Aldehyde Dehydrogenases in Endogenous and Xenobiotic Metabolism. Veterans Administration Medical Center, University of Southern California, Los Angeles, California, U.S.A., September 20, 2000.
10. Mouse *Aldh3a1*: Tissue-specific and Inducible Gene Expression. Laboratory of Molecular and Developmental Biology, National Eye Institute, NIH, Bethesda, Maryland, U.S.A., October 3, 2000.
11. The Role of Aldehyde Dehydrogenases in Metabolism. Laboratory of Metabolism, National Cancer Institute, NIH, Bethesda, Maryland, U.S.A., October 5, 2000.
12. Polymorphisms of the Human Aldehyde Dehydrogenases: Consequences for Drug Metabolism and Disease. Toxicology Program, Colorado State University, Fort Collins, Colorado, U.S.A. September 17, 2000.
13. Toxicologic Importance of the Human Aldehyde Dehydrogenases: From Alcohol to Chemotherapeutic Agents. Presentation on the Symposium on “Pharmacogenetics and Drug Metabolism” at the 40th Annual Society of Toxicology Meeting, March 2001.
14. Polymorphisms of the Human Aldehyde Dehydrogenases: Consequences for Drug Metabolism and Disease. Medical School University of Ioannina, Greece, April 12, 2001.
15. Multiple Protective Roles of the Corneal ALDH3A1 Against Oxidative Damage. University of Texas Health Center at Tyler, Tyler, Texas, U.S.A., August 6, 2002.
16. Protective Role of Corneal Enzymes to Free Radical Oxidative Damage. “Free Radicals in Medicine and Biology Seminar Course” (Colorado Oxygen Radical Society), December 6, 2002.
17. Aldehyde dehydrogenases protect against oxidative damage. Department of Biochemistry and Biotechnology, University of Thesally, Larissa, Greece, April 1, 2003.
18. Aldehyde dehydrogenases protect against oxidative damage. Department of Biology, Aristoteleio University, Thessalonica, Greece, April 3, 2003.
19. Protective Role of ALDH3A1 Against Oxidative Damage. Department of Environmental Health, University of Cincinnati Medical Center, Cincinnati, OH, May 28, 2003.
20. Protective Role of Corneal ALDHs Against Oxidative Damage, National Eye Institute, NIH, Bethesda, MD, December 11, 2003.
21. Multiple roles of aldehyde dehydrogenase 3A1 (ALDH3A1), National Eye Institute, NIH, Bethesda, MD, June 2004.
22. The role of ALDHs in the corneal epithelium, University of Washington, Seattle, WA, February 2004.
23. Protective Roles of Corneal ALDHs against Oxidative Damage, University of Texas Medical Branch, Galveston, TX, December 2004.
24. The Role of Aldehyde Dehydrogenases In Metabolism And Cellular Responses To Oxidative And Osmotic Stress, Department of Experimental medicine and Oncology, University of Turin Italy, April 2005.
25. Corneal Crystallins as a Cellular Response to Oxidative Stress, Department of Pharmacology, University of Florence, April 2005.
26. Cellular Responses to Oxidative and Osmotic Stress, Department of Biochemistry and Molecular Biology, University of Louisville, KY, May 2005.
27. Corneal Crystallins and Cellular Responses to Oxidative Damage, Department of Ophthalmology, Medical University of South Carolina, SC, May 2005.
28. Aldehyde Dehydrogenases and Oxidative Stress, Laboratory of Kidney and Electrolyte Metabolism, NHLBI/NIH, Bethesda, MD, November 2005.
29. Role of Aldehyde Dehydrogenases in Metabolism and Cellular Response to Oxidative and Osmotic Stress, NEI/NIH, Bethesda, MD, December 2005.
30. Polymorphisms of Aldehyde Dehydrogenases: Consequences for Drug Metabolism and Disease, Department of Pharmacology and Physiology, The George Washington University Medical Center, April 2006.
31. Role of Aldehyde Dehydrogenases in Metabolism and Oxidative Stress, NIAAA/NIH, Bethesda, MD. April 2006.
32. Diverse Functions of Corneal Crystallins, Department of Ophthalmology, Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, May 2006.
33. Novel and diverse functions of Corneal ALDH3A1, Department of Molecular Medicine, Harbor-UCLA Medical Center, Los Angeles, CA, January 2007.
34. Cataract phenotype and oxidative damage in *Aldh3a1*- and *Aldh1a1*-null mice. Department of Ophthalmology, University of California Irvine, Los Angeles, CA, January 2007.
35. Role of ALDHs against oxidative damage. Dipartimento Medicina ed Oncologia Sperimentale, University of Turin, Turin. Italy, June 2007.
36. The Role of Corneal Crystallins in the Physiology and the Pathophysiology of the Eye. Department of Ophthalmology, Medical University of South Carolina, SC, March 2008.
37. The role of aldehyde dehydrogenases in metabolism and disease, University of Kuopio, Finland, June 2009.
38. The Role Of Aldehyde Dehydrogenases In Metabolism And Disease, Institute of Occupational Health, Helsinki, June 2009.
39. The Role of Aldehyde Dehydrogenases in Drug Metabolism, Metabolic Disease and Cancer Stem Cells, UCLA, Los Angeles, April 2010.
40. Crystallins and Corneal Transparency, Distinguished Lecture Series, Cleveland Clinic, Cole Eye Institute, April 2010.
41. Aldehyde Dehydrogenases: From Metabolic Disease to Cancer Stem Cells, University of Vanderbilt, USA, November 2010.
42. Aldehyde Dehydrogenases: From Metabolic Disease to Cancer Stem Cells, Kitakyushu University, Japan, December 2010.
43. Aldehyde Dehydrogenases: From Inherited Metabolic Diseases to Stem Cells and Cancer, Grand Rounds in Clinical Genetics and Metabolism, Children’s Hospital, University of Colorado Denver, January 12, 2011.
44. Aldehyde Dehydrogenases and Cancer Stem Cells, Pathology Grand Rounds, University of Colorado Denver, January 2011.
45. Aldehyde Dehydrogenases: From Metabolic Disease to Cancer Stem Cells. Lovelace Respiratory Research Institute, Albuquerque, February 2011.
46. Aldehyde Dehydrogenases: From Corneal and Lens Crystallins to Cancer Stem Cells. Jules Stein Eye Institute at UCLA, June 2011.
47. Systems Biology of GSH-Mediated Redox Sensing in Alcoholic Liver Disease, NIAAA/NIH, June 2012.
48. Aldehyde Dehydrogenases: Eye Crystallins to Metabolic Diseases and Cancer Stem Cells, Saga University, Japan, September 2012.
49. Aldehyde Dehydrogenases: Eye Crystallins, Metabolic Diseases and Cancer Stem Cells, The University of Texas Medical Branch at Galveston, October 2012.
50. Aldehyde Dehydrogenases as Potential Therapeutic Agents, University of Colorado Cancer Center Seminar Series, 2012.
51. Aldehyde Dehydrogenases: From Metabolic Diseases and Cancer Stem Cells, Obesity Research Center, College of Medicine, King Saud University, Riyadh, Saudi Arabia, November 2013.
52. Aldehyde Dehydrogenases in Human Health and Disease, Research Centre King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia, November 2013.
53. Aldehyde Dehydrogenases: From Crystallins to Stem Cells, SUNY Downstate Medical Center, Brooklyn, NY, February 2014.
54. Aldehyde Dehydrogenases In Cancer: Critical Players Rather Than Stem Cells Markers, Center of Excellence in Environmental Toxicology (CEET) at the University of Pennsylvania, PA, April 2015.
55. Interplay Between Alcohol and Glutathione in Obesity and Diabetes, University of Louisville Diabetes and Obesity Center, Louisville, KY, November 2015.
56. Alcohol and Antioxidants in Obesity and Diabetes, University of North Carolina Nutrition Research Institute, Kannapolis, NC, March 2016.
57. Department of Environmental Health Sciences at Yale School of Public Health: A Vision for the Future. National Institutes of Environmental Health Sciences, NIH, Research Triangle Park (RTP), NC, March 2016,
58. Toxicology Today, University of Larissa, Larissa, Greece, March 2016.
59. Systems Approaches for Environmental Health Research, Chinese NIEHS, August 2016.
60. Metabolomics in Environmental Health Research, Chinese CDC August 2016.
61. Aldehyde dehydrogenases in cancer and cancer stem cells,Seminar Speaker, Fall/Winter 2016-2017 Pharmacology Seminar Series, Weill Cornell Medicine, New York, NY, December 2016.
62. Aldehyde Dehydrogenases in Cancer Stem Cells: Molecular Mechanisms and Drug Development, University of Connecticut, May 2017.
63. Systems Approaches for Environmental Health Sciences in the 21st Century: Metabolomics and the Exposome, Zejiang University, May 2017.
64. Aldehyde dehydrogenases (ALDH) and glutathione (GSH) are key-players in metabolic disease and cancer stem cells, Department of Public Health, College of Political, Administrative and Communication, SciencesBabes-Bolyai University, Romania, July 2017.
65. Systems Approaches for Environmental Health Sciences in the 21st Century, Department of Public Health, College of Political, Administrative and Communication Sciences, Babes-Bolyai University, Romania, July 2017.
66. Genomics In Public Health Surveillance: From Deadly Viruses To Disease Susceptibility and Environmental Exposures, "1st Zayed Center Genomic Medicine Workshop & the 20th Golden Helix Pharmacogenomics Day”, UAE, Feb 2018.

**SOCIETY MEMBERSHIPS**

Society of Toxicology (SOT) since 1996

Mountain West Chapter of Society of Toxicology (MW SOT), 1996-2014

The Association for Research in Vision and Ophthalmology (ARVO), since 1998

Human Genome Organization (HUGO), since 2010

American Society of Human Genetics, since 2011

International Society for Environmental Epidemiology (ISEE), since 2017

International Society for Biomedical Research on Alcoholism (ISBRA), since 2000

International Society for Eye Research (ISER), since 2008

European Society for Biomedical Research on Alcoholism (ESBRA), since 2000

**GRANT/RESEARCH ACTIVITY**

**Current support**

* Mouse Models and Metabolomics Tools to Investigate Alcohol Metabolism and Tissue Injury, 2R24AA022057-07A1 (Vasiliou) NIH/NIAAA, Total direct costs: 1,575,871, 09/20/2018-08/31/2023.
* Mouse Models for Alcohol Metabolism and Tissue Injury; 3R24AA022057-06S1 (PI Vasilis Vasiliou), NIH/NIAAA, Total direct costs: $59,000. 7/6/2017-1/31/2019
* Novel Role of Corneal Crystallins as Modulators of Cell Growth and Transparency 2R01EY017963-06A1 (PI Vasilis Vasiliou), NIH/NEI Total direct costs: $883,187, 05/01/2017-04/30/2020.
* Novel Role of Corneal Crstallins as Modulators of Cell Growth and Transparency (Supplement), 3R01E017963-06A1S1, (PI Vasilis Vasiliou), NIH/NEI, Total direct costs: $220,251.
* The Role of ALDH1B1 in Ethanol Metabolism and Colon Cancer;5 R01 AA021724-05 (PI Vasilis Vasiliou), NIH/NIAAA, Total direct costs: $1,328,578, 09/1/2014-08/31/2019.
* Summer Research Experiences in Environmental Health (SREEH), 1R25ES029052-01 (MPI Vasilis Vasiliou, Yong Zhu), NIH/NIEHS, Total direct costs: $494,213
* Fourth International Conference on Alcohol and Cancer, 1R13AA027725-01 (PI Vasilis Vasiliou), NIH/NIAAA, Total direct costs; $30,000.

**Pending**

* Translational Alcohol Research Program (TARP), 1T32AA026564-01A1, (MPI: Vasilis Vasiliou, Kelly Cosgrove), NIH/NIAAA, Total direct costs: $1,287,200.
* Metabolomics, Tissue-Imaging Mass Spectrometry, and Advanced Network-Analytics to Identify Biomarkers and Novel Pathways Involved in the Development of Alcoholic Liver Disease, 1R21AA027716-01 (PI Vasilis Vasiliou), NIH/NIAAA, Total direct costs: $275,000

**Past Support**

* Glutathione Monoesters to Counteract Ocular Chemical Injury (CounterACT) Exploratory/Development Projects in Translational Research, 1R21EY026776-01 (PI Vasilis Vasiliou), NIH/NEI, Total direct costs: $575,934, 9/30/15-9/29/18 (NCE).
* Mouse Models for Alcohol Metabolism and Tissue Injury; 5R24AA022057-06 (PI Vasilis Vasiliou), NIH/NIAAA, Total direct costs: $902,839, 02/01/2013-09/192018.
* 3rd International Alcohol and Cancer Conference. 1R13AA024046-01 (PI Vasilis Vasiliou), NIH/NIAAA, Total direct costs: $30,000, 04/01/2015-11/30/2017 (NCE).
* Role and Molecular Mechanisms Corneal Aldehyde Dehydrogenase, 7R01EY11490-16 (PI Vasilis Vasiliou), NIH/NEI, Total direct costs $1,801,728; 7/1/09-6/30/2016 (NCE).
* A Novel Aldehyde Dehydrogenase (ALDH16A1) in Gout; 5R21AR064137-02 (PI Vasilis Vasiliou), NIH/NIAMS, Total direct costs: $253,936; 09/16/2014-01/31/2017 (NCE).
* Mouse Models for Alcohol Metabolism and Tissue Injury, 3R24 AA022057-03S1 (PI Vasilis Vasiliou), NIH//NIAAA, Total direct costs $93,418, 8/1/13-1/31/17
* The role of GSH in cornea and lens development; 7R21EY021688-03, NIH/ NEI (PI Vasilis Vasiliou), 07/01/2012-08/31/2015.
* Biochemical, Structural and Polymorphic Characterization of Human ALDH1B1, 1F31AA020728-01, (NRSA fellowship for Brian Jackson; Role: **Mentor**) 07/01/2011-06/30/2015.
* Aldehyde Dehydrogenases as Targets to Treat Acute Myeloid Leukemia (PI Vasilis Vasiliou), Skaggs School of Pharmacy Colorado/University of Colorado. 7/1/11 – 6/30/2013.
* Alcohol and Cancer Conference. 1R13AA021659-01, NIAAA/NIH (PI Vasilis Vasiliou), 07/01/2012-08/30/2013
* Role of ALDH7A1 in Ethanol-Induced Oxidative Damage; 1 F31AA018248-01 (NRSA fellowship for Chad Brocker; **Role:** Mentor), ***Funded;*** $29,417 per year, $88,251 total; 09/30/2010 – 09/29/2013 (terminated due to graduation in May 2012).
* The role of mitochondrial aldehyde dehydrogenases in ethanol metabolism and toxicity, NIH/NIAAA, 1R21AA017754-01 Vasiliou (PI, Vasilis Vasiliou); ***Funded;*** Direct cost $275,000; 07/01/09-06/30/11.
* Aldehyde Dehydrogenase 3B1: Characterization and Role in Oxidative Stress 1 F31 AA016875-01 (Satori Marchitti Student, **Mentor** Vasilis Vasiliou), ***Funded;*** Direct Costs: $82,500; 1/1/07-12/31/09.
* Molecular Mechanisms and Role of the Corneal Aldehyde dehydrogenase NIH/NEI, R01EY11490-09S1 ((P.I. Vasilis Vasiliou, ***Funded;*** $78,950; 8/01/07 to 3/31/09.
* Molecular Mechanisms and Role of the Corneal Aldehyde dehydrogenase NIH/NEI, R01EY11490-06. (P.I. Vasilis Vasiliou), ***Funded;*** $1,250,000 (direct costs); 4/01/04 to 3/31/09.
* Role of Lipid Aldehydes in Ethanol-Induced Liver Injury, NIH/NIAAA, R01 AA09300. (Dennis R. Petersen P.I., Vasilis Vasiliou Co-PI), ***Funded;*** $1,400,000 (direct costs), 04/01/01-03/31/06.
* Genetic Models to Study Alcohol Toxicity. NIAAA R01 AA11885-01A1 (P.I. Vasilis Vasiliou), $867,203 (direct costs), 1/1/99-12/31/04.
* Role of Aldehyde Protein Adducts in CCl4-Induced Liver toxicity. NIEHS R01 ES09410-01A1, (Dennis R. Petersen P.I., Vasilis Vasiliou Co-PI), ***Funded;*** $1,250,854 (direct costs), 9/15/00-9/15/05.
* Role of CYP2E1 in Fetal Alcohol Syndrome, NIAAA, Predoctoral Fellowship for the student Susanne Williams, Mentor Vasilis Vasiliou, ***Approved;*** $45,000; 8/1/98 to 7/30/01.
* Molecular Mechanisms and Role of the Corneal Aldehyde dehydrogenase NIH/NEI, R29EY11490. (P.I. Vasilis Vasiliou) ***Funded;*** $349,835 (direct costs); 506,097 (total costs), 1/12/97 to 30/11/2002.
* Transgenic Mouse Models to Study the Role of Neurotensin Receptor in Ethanol Sensitivity, NIH/NIAA, Pilot project with the Alcohol Research Center. (Vasilis Vasiliou P.I.) ***Funded;*** $50,000, 12/1/99 to 11/30/02.
* Role of Lipid Aldehydes in Ethanol-Induced Liver Injury, NIH/NIAAA, R01 AA09300. (Dennis R. Petersen P.I., Vasilis Vasiliou Co-PI), ***Funded;*** $859,283 (direct costs) 1,283,085 (total costs), 04/01/97-03/31/01.
* Characterization of the ethanol metabolism pathways in Zebrafish. Department of Pharmaceutical Sciences Seed Grant. (Robert Tanguay & Vasilis Vasiliou) ***Funded;*** $10,000; 7/1/00 to 7/1/01.
* Pharmacogenetics of cyclophosphamide metabolism. Department of Pharmaceutical Sciences Seed Grant. (Mark Duncan, Daniel Gustafson, Peter Kazakoff, & Vasilis Vasiliou, Ph.D.) ***Funded;*** $10,000; 7/1/00 to 7/1/01
* Role of Neurotensin Receptor in Ethanol Sensitivity, Department of Pharmaceutical Sciences Seed Grant. (P.I. Vasilis Vasiliou) ***Funded;*** $10,000; 7/1/98 to 7/1/1999.
* Transcriptional Regulation of Genes Involved in Human Disease. Department of Pharmaceutical Seed Grant, (P.I., Vasilis Vasiliou) ***Funded;*** 5,000; 4/1/97 to 4/28/98.
* Transcriptional Activators of Oxidative Stress. Department of Pharmaceutical Sciences Seed Grant. (P.I. Vasilis Vasiliou) ***Funded;*** $10,000; 7/1/96 to 7/1/1997.
* Molecular Basis of Cyclophosphamide Resistance. Colorado Cancer Center Seed Grant. (P.I. Vasilis Vasiliou) ***Funded;*** $10,000; 9/8/96 to 8/30/97.

**PROFESSIONAL AND INSTITUTIONAL SERVICE**

**Editorial Boards:**

2005-present Cutaneous and Ocular Toxicology

2007-present The Ocular Surface

2013-present Expert Opinion on Drug Metabolism & Toxicology

**Executive Editor:**

2010-2016 Experimental Eye Research

**Editor-in-Chief:**

2008- [Human Genomics](http://www.humgenomics.com)

**Journal reviewer for:**Alcohol & Alcoholism, Alcoholism Clinical & Experimental Research, American Journal of Pathology, Archives of Biochemistry and Biophysics, Biochemical Pharmacology, Biochemical Biophysical Acta, British Journal of Nutrition, British Journal of Pharmacology; Cancer Letters, Cancer Chemotherapy and Pharmacology, Carcinogenesis, Cellular and Molecular Life Sciences, Chemical Research in Toxicology, Chemico-Biological Interactions, Comparative Biochemistry and Physiology, Clinical Chemistry and Laboratory Medicine, DNA Sequence, Digestive Diseases and Sciences, Drug Metabolism and Disposition, Experimental Eye Research, Genomics, Endocrine Reviews, European, Free Radicals in Biology and Medicine, Journal of Pharmacology, Journal of Human Genetics, Investigative Ophthalmology and Visual Sciences, International Journal of Cancer, International Journal of Biological Macromolecules

Life Sciences, Molecular Pharmacology, Journal of Biological Chemistry, Pharmacogenetics & Genomics.

**Reviewing for Granting Agencies**Greek Ministry of Research and Technology (2005; ad hoc).

NIH ZRG1 AED Study Section (2004-2005; ad hoc).

NIH ZRG1 AED Study Section (2005-2009; regular member).

NIH ZAA1 BB Study Section (2007; 2008; ad hoc).

NIH ZAA1 JJ (12) Study Section (2007; ad hoc).

NIH DPVS Study Section (March 2012; mail reviewer)

NIH CBSS Study Section (February 2012; ad hoc)

NIH ZRG1 MOSS-S (04) (March 2012; ad hoc)

NIH AA-1 Study Section (2009-2011; regular member)

NIH AA-1 Study Section (2011-2013; chair, and in 2017; ad hoc)

NIH DPVS Study Section (2013-2019; ad hoc)

NIH ZEY1 VSN study section (05) (August 2014 ad hoc)

NIH ZAA1 Study Section (2006-; meber and chair)

**Reviewer for Society of Toxicology, University of Colorado and Yale University**

**Specialist Advisor**

HUGO Gene Nomenclature Committee (<http://www.gene.ucl.ac.uk/nomenclature/advisors.html>)

**PUBLICATIONS**

1. Vasiliou V, Malamas M, Marselos M. The mechanism of alcohol intolerance produced by various therapeutic agents, **Acta Pharmacol et Toxicol** 58: 305-310, 1986. PMID: 2943133.
2. Vasiliou V, Marselos M. Tissue distribution of inducible aldehyde dehydrogenase activity in the rat after treatment with phenobarbital or methylcholanthrene. **Pharmacol & Toxicol** 64: 39-42, 1989. PMID: 2755909.
3. Vasiliou V, Marselos M. Changes in the inducibility of a hepatic aldehyde dehydrogenase by various effectors. **Arch Toxicol** 63: 221-225, 1989. PMID: 2764709.
4. Vasiliou V, Torronen R, Malamas M, Marselos M. Inducibility of liver cytosolic aldehyde dehydrogenase activity in various animal species. **Comp Biochem & Physiol** 94C: 671-675, 1989. PMID: 2576795.
5. Marselos M, Vasiliou V. Effects of various chemicals on the aldehyde dehydrogenase activity of the rat liver cytosol. **Chem Biol Interactions** 79: 79-89, 1991. PMID: 2060039.
6. Marselos M, Vasiliou V, Malamas M, Alikaridis F, Kefalas T. Effects of cannabis and tobacco on the enzymes of alcohol metabolism in the rat. **Rev Environm Health** 9: 31-37, 1991. PMID: 1957048.
7. Vasiliou V, Puga A, Nebert DW. Negative regulation of the murine cytosolic aldehyde dehydrogenase-3 (Aldh-3c) gene by functional CYP1A1 and CYP1A2 proteins. **Biochem Biophys Res Commun** 187: 413-419, 1992. PMID: 1520328.
8. Vasiliou V, Puga A, Nebert DW. Mouse class 3 aldehyde dehydrogenases: positive and negative regulation of gene expression. **Adv Exp Med Biol** 328: 131-139, 1993. PMID: 8493891.
9. Nebert DW, Puga A, Vasiliou V. Role of Ah receptor and the dioxin-inducible [Ah] gene battery in toxicity, cancer and signal transduction. **Ann N Y Acad Sci** 658: 624-640, 1993. PMID: 8395783.
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12. Vasiliou V, Pappas P, Nebert DW, Marselos M. Lack of response of the rat liver class 3 cytosolic aldehyde dehydrogenase to toxic chemicals, glutathione depletion, and other forms of stress. **Biochem Pharmacol**48: 841-845, 1994. PMID: 8080457.
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15. Pappas P, Vasiliou V, Karageorgou M, Stefanou P, Marselos M. Studies on the induction of the rat class 3 aldehyde dehydrogenase. **Adv Exp Med Biol** 372:143-150, 1995. PMID: 7484372.
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