Leslie J. Saucedo

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Education

1994 - 1999	Ph.D. degree in Cellular and Molecular Biology, University of Wisconsin, Madison, WI
1993 – 1994	Graduate courses relevant to full-time research position, University of Iowa, Iowa City, IA
1987 - 1991	B.S. degree in Microbiology, University of Illinois, Urbana-Champaign, IL

Research Experience

2003 – 2006	Research Affiliate of the Fred Hutchinson Cancer Research Center. Characterization of the mechanisms by which newly identified genes (from postdoctoral studies) regulate cellular growth in *Drosophila*.
1999 - 2003	Postdoctoral studies at the Fred Hutchinson Cancer Research Center. Identification of novel genes that control cellular growth in *Drosophila*.
1994 - 1999	Graduate studies at the University of Wisconsin. Investigating the regulation and function of the MDM2 oncogene in the cell cycle response to UV irradiation.
1991 - 1994	Research Assistant II at the University of Iowa. Screening of patients with disorders in the complement cascade of the immune response and identification of the genetic bases.
1991	Research Assistant I at Baxter Healthcare. Validation studies to determine efficacy of current bioburden recovery procedures.
1990	Senior Thesis Research at the University of Illinois. Construction and characterization of a single chain antibody (SCA) modeled after an autoimmune antibody isolated from a mouse model of Systemic Lupus Erythematosus.

Teaching Experience

2015 to 2024	Full Professor at the University of Puget Sound. Taught introductory level (Unity of Life, 200-level (Cell Biology, Genetics), and 400-level (Cancer Biology, Molecular Biology) courses for Biology majors as well as a 100/300-level course on Cancer and Society for non-majors. Mentored research and senior thesis projects for undergraduates.
2009 – 2015	Associate Professor at the University of Puget Sound. Taught introductory level (Unity of Life, 200-level (Cell Biology) and 400-level (Cancer Biology) courses for Biology majors as well as a Freshman Seminar (Genetic Determinism). Mentored research and senior thesis projects for undergraduates.
2006 – 2009	Assistant Professor at the University of Puget Sound. Taught introductory level (Unity of Life, 200-level (Cell Biology) and 400-level (Cancer Biology) courses for Biology majors. Mentored research and senior thesis projects for undergraduates.

Teaching Experience con't…

2003 – 2006	Visiting Assistant Professor at the University of Puget Sound. Taught introductory level (Unity of Life) and 200-level (Cell Biology) courses for Biology majors as well as a Freshman Seminar (Genetic Determinism). Mentored research and senior thesis projects for undergraduates.
2002 - 2008	Adjunct Professor at Antioch University--Seattle. Taught discussion courses to non-biology majors (Contemporary Issues in Biology and Genetic Determinism) and served as an advisor for independent study courses. Served on thesis committee of Master's students.
2000 - 2003	Volunteer for Hutch School. Taught high school biology for children/siblings of cancer patients participating in clinical studies. Hosted laboratory field trips for students ages 5-18.
1996 - 1997	University of Wisconsin Teaching Assistant. Headed discussion classes, wrote and graded problem sets and exams for sophomore honors and upper level courses in Cell Biology.

Awards, Grants and Fellowships

2018	John Lantz Senior Fellowship for Research or Enhanced Study
2015	1st place award from Society for Professional Journalists in Magazine Science Reporting
2014	USGS Non-Competitive Assistance Award
2013	Dirk Andrew Phibbs Memorial Award for Research
2012	CellNetworks Sabbatical Visitor Program Award
2012	John Lantz Sabbatical Enhancement Award
2009	NIH AREA Grant
2009, 2012	Thomas A. Davis Teaching Award
2008	Mellon Junior Sabbatical Fellowship
2003	Murdock Life Sciences Grant
2000	NIH NRSA Postdoctoral Fellowship
1998	NIH Fellowship to attend 9th International p53 Workshop in Crete
1997	Fellowship from the University of Wisconsin-Weizmann Institute Exchange Program
1991	Clark Microbiology Award for Senior Thesis project

Publications (*denotes undergraduate students)

Getting to Know Your Cells **Leslie Saucedo** (2023). Springer.108pps doi:10.1007/978-3-031-30146-9

How model organisms can inform the emerging paradigm of the role of antioxidants in cancer. **Leslie Saucedo,** Rosalie Triolo,* Kate Segar*. (2021) Molecular Cancer Research. Jan;19(1):38-41. doi: 10.1158/1541-7786.

A Point Mutation Creating a 3′ Splice Site in C8A Is a Predominant Cause of C8α-γ Deficiency in African Americans. Peter Densen, Laynez Ackermann, Julio Figueroa, Zhi-hai Si, and Conrad Stoltzfus. (2020) Journal of Immunology doi: 10.4049/jimmunol.2000272

How long is long enough? **Leslie J. Saucedo**. (Spring, 2014) *Arches: 30-33.*

Drosophila PRL-1 is a growth inhibitor that counteracts the function of the Src oncogene. Krystle T. Pagarigan*, Bryce W. Bunn*, Jake Goodchild*, Travis K. Rahe* (Edlefsen), Julie F. Weis* and **Leslie J. Saucedo**. (2013) *PLoS One* 8(4): e61084.

Publications con't,,

EndoGI modulates Notch signaling and axon guidance in *Drosophila*. David O'Keefe, Bruce A. Edgar and **Leslie J. Saucedo**. (2011) *Mechanisms of Development* **128**: 59-70. (Epub Nov 3, 2010).

Filling out the Hippo pathway. **Leslie J. Saucedo** and Bruce A. Edgar. (2007) *Nature Reviews Molecular Cell Biology* **8**: 613-621.

Chewing the fat: regulating autophagy in *Drosophila*. Savraj S. Grewal and **Leslie J. Saucedo**. (2004) *Developmental Cell* **7**: 148-150.

Rheb promotes growth and is a component of the insulin/TOR signalling pathway. **Leslie J. Saucedo**, Xinsheng Gao, Dominic Chiarelli, Ling Li, Duojia Pan and Bruce Edgar. (2003) *Nature Cell Biology* **5**: 566-571.

Rheb is a direct target of the tuberous sclerosis tumor suppressor proteins. Yong Zhang, Xinsheng Gao, **Leslie J. Saucedo**, Binggen Ru, Bruce Edgar & Duojia Pan. (2003*) Nature Cell Biology* **5**: 578-581.

Why size matters: altering cell size. **Leslie J. Saucedo** and Bruce Edgar. (2002) *Current Opinion in Genetics and Development* **12**: 565-571.

P76^{MDM2} inhibits the ability of p90^{MDM2} to destabilize p53. Mary Ellen Perry, Susan M. Mendrysa, **Leslie J. Saucedo**, Paul Tannous and Marisa Holubar. (2000) *Journal of Biological Chemistry* **275**: 5733-5738.

The E7 oncoprotein of human papillomavirus type 16 stabilizes p53 through a mechanism independent of p19^{ARF}. Scott E. Seavey, Marisa Holubar, **Leslie J. Saucedo**, and Mary Ellen Perry. (1999) *Journal of Virology* **73**: 7590-7598.

Multiple murine double minute gene 2 (MDM2) proteins are induced by UV light. **Leslie J. Saucedo**, Cena D. Myers, and Mary Ellen Perry. (1999) *Journal of Biological Chemistry* **274**: 8161-8168.

Regulation of transcriptional activation of MDM2 gene by p53 in response to UV radiation. **Leslie J. Saucedo**, Brian P. Carstens, Scott E. Seavey, Lee D. Albee, and Mary Ellen Perry. (1998) *Cell Growth and Differentiation* **9**: 119-130.

Delineation of additional genetic bases for C8 beta deficiency: prevalence of null alleles and predominance of C-->T transitions in their genesis. **Leslie Saucedo**, Laynez Ackermann, Alexander E. Platonov, Anita Gerwurz, Robert M. Rakita and Peter Densen. (1995) *Journal of Immunology* **155**: 5022-5028.

Construction, characterization, and selected site-specific mutagenesis of an anti-single stranded DNA single-chain autoantibody. Catherine A. Rumbley, Lisa K. Denzin, **Leslie Saucedo**, Sergey Yu Tetin and Edward W. Voss, Jr. (1993) *Journal of Biological Chemistry* **268:** 13667-13674.

External Presentations

Manipulation of the Redox Environment Alters the Oncogenic Activity of Ras and Src in Drosophila. **Leslie J Saucedo**, Bridget N. Alexander*, Rosalie E Triolo*, and Kate E. Segar*. (2018) Poster presentation at the Annual Society for Developmental Biology. Portland, OR, July 21st.

The ethics of biomedical research to extend lifespan: how long is long enough? (2010) Seminar leader at the National Undergraduate Bioethics Conference, Tacoma WA, March 26th-27th.

What can fruit flies teach us about cancer? **Leslie J. Saucedo**. (2014) Oral presentation for USGS seminar series. Tacoma, WA, March 18th.

External Presentations con't…

Delineating the function of PRL-1 in Drosophila. **Leslie J. Saucedo**, Jake Goodchild*, Krystle Pagarigan* and Travis Edlefsen*. (2012) Poster presentation at the 53rd annual *Drosophila* Research Conference, Chicago, IL, March 7th-11th.

Identification of a novel gene in *Drosophila melanogaster* affecting patterning and growth. **Leslie J. Saucedo,** David O'Keefe and Bruce Edgar. (2006) Poster presentation at the Genetics Society of America (GSA) meeting entitled "Model Organisms to Human Biology," San Diego, CA, January 5-7th.

Identification of novel regulators of growth. **Leslie J. Saucedo,** David O'Keefe and Bruce Edgar. (2004) Poster presentation at Keystone Symposia on Cell Cycle and Development, Snowbird, UT, January 6-11th.

Big-eyed flies: what can they teach us about cancer? **Leslie J. Saucedo**. (2003) Invited speaker for Biology Seminar Series at Western Washington University, October 29th.

Rheb is a nutrient-sensitive regulator of growth. **Leslie J. Saucedo,** Dominic Chiarelli, Ling Li and Bruce A. Edgar. (2003) Oral presentation at the 44th annual *Drosophila* Research Conference, Chicago, IL, March 5-9.

Identifying modifiers of cyclin D/cdk4-directed overgrowth. **Leslie J. Saucedo**, Sanjeev A. Datar, and Bruce A. Edgar. (2001) Poster presentation at the 60th annual Developmental Biology meeting, Seattle, WA, July 18-22.

Multiple MDM2 proteins are induced in response to UV light. **Leslie J. Saucedo**, Cena D. Myers, and Mary Ellen Perry. (1998) Poster presentation at the 9th International p53 Workshop, Crete, Greece, May 9-13.

Induction of *mdm2* in the UV response. **Leslie J. Saucedo** and Mary Ellen Perry. (1997) Oral presentation at the 88th American Association for Cancer Research annual meeting, San Diego, CA, April 12-16.

University Service at Puget Sound

2021-24:	Member of the University Accreditation Committee
2021-22::	Faculty Consultant at the Center for Writing and Learning
2019:	Member of Mosaic Curriculum team
2018:	Race and Pedagogy Conference Proposal Reviewer and Panel Moderator
2018-2019:	Strategic Planning Workgroup on Diversity, Inclusion, and Access
2016-2019:	Curriculum Committee, Chair 2018-2019
2014-2019:	Associate Chair, Biology
2015-24:	Bioethics Advisory Committee
2013-24:	Collier Committee for Science and Ethics, Chair 2016 to present
2013-2016:	Research Czar for Science and Mathematics students
2011-2015:	Elected Faculty Senator, Vice Chair in 2014-15
2011-2013:	Howarth Scholarship Committee
2011:	Associate Chair of Biology Department, Spring only
2010-2011:	Ad Hoc Committee on Child Care
2009-2017:	Health Professions Advising Committee
2009, 2010	Interim Summer Research Co-czar
2008-present:	Faculty advisor for Puget Sound Relay for Life
2007-2010:	University Enrichment Committee, Chair spring 2010
2007, 2008:	Served as replacement Senator on Faculty Senate
2004-present:	Reviewer for Summer Undergraduate Research Grants in Science and Mathematics
2004-present:	Research mentor for 47 students
2004, 2005, 2013:	Faculty "escort" for Puget Sound students attending Murdock College Science Research Program Conference (held in Oregon, Idaho and Washington)