

## **CURRICULUM VITAE**

**Dr. Mahtab Jafari**

*Professor and Vice Chair*

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*University of California, Irvine*

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### **EDUCATION AND TRAINING**

#### **Education:**

Year	Degree/Field	Institution
1994	Pharm.D.	University of California, San Francisco

#### **Postdoctoral Training:**

Year	Specialty	Place of Training
1994-95	Pharmacy Residency	University of California, San Francisco

#### **Licensure and Certification:**

Year	Type
1994-present	California Pharmacist License
1994-present	Nevada Pharmacist License
2018	Certificate in Leadership for Healthcare Transformation UCI Paul Merage School of Business

### **PROFESSIONAL APPOINTMENTS**

#### **Academic Appointments:**

Year	Academic Title	Institution
1995-1996	Assistant Clinical Professor	UCSF School of Pharmacy
1996-present	Adjunct Faculty (WOS)	UCSF School of Pharmacy
1996-2000	Assistant Clinical Professor (Founding faculty member)	Western University of Health Sciences School of Pharmacy, Pomona CA
2000	Associate Professor	Western University of Health Sciences
1997-2004	Assistant Clinical Professor	UCI School of Medicine
2004-present	Associate Clinical Professor	UCI School of Medicine
2005-2010	Assistant Professor	Dept. of Pharmaceutical Sciences, UCI
2005-2007	Associate Director	Program in Pharmaceutical Sciences, UCI
2008-present	Joint Appointment	Dept. of Pharmacology, UCI
2008-present	Joint Appointment	Dept. of Ecology & Evolutionary Biology, UCI
2007-2013	Director	Pharmaceutical Sciences Undergraduate Program, UCI
2010-2016	Associate Professor	Dept. of Pharmaceutical Sciences, UCI
2015-present	Vice Chair Pharmacy School Planning	Dept. of Pharmaceutical Sciences, UCI

2016-present	Professor	Dept. of Pharmaceutical Sciences, UCI
2017-present	Director	UCI Center for Healthspan Sciences (In Development)

#### **Hospital and Institutional Appointments:**

Year	Title	Hospital or Affiliated Institution
1995-1997	Clinical Pharmacist, Coronary Care Unit	UCSF Medical Center
1997-2001	Clinical Pharmacist, Coronary Care Unit	UCI Medical Center
1998-2002	Director, Cholesterol Clinic	UCI Medical Center
2000	Co-Director, Cardiovascular Risk Reduction Program	UCI Medical Center
2015-present	<i>Ex officio</i> member	Chief Executive Roundtable, UCI Foundation

#### **Other Professional Positions and Major Visiting Appointments:**

Year	Title	Institution
2001	Research Scientist	Abbott Laboratories, Abbott Park IL
2002-2004	Senior Research Scientist	Abbott Laboratories
2003-2004	Regional Scientific Manager	Abbott Laboratories

#### **AWARDS AND HONORS**

Year	Name of Award
1997	Honorable Mention for Innovation in Teaching, American Council on Pharmacy Education
2007-2008	UCI Distinguished Assistant Professor Award for Teaching
2008	"20 Women to Watch in Orange County", OC Metro Business Magazine
2008	UCI Chancellor's Award for Excellence in Fostering Undergraduate Research
2011	UCI Susan Samueli Center for Integrative Medicine "Discovery Award"
2011	UCI Dept. of Pharmaceutical Sciences "Overall Outstanding Professor Award"
2012-13	UCI Dept. of Pharmaceutical Sciences "Most Inspiring Professor" Award
2013	The FDA Collaboration Award for the FDA/UCI Internship Program
2014	UCI Anthology Yearbook Class of 2014 Most Inspiring Health Sciences Professor
2013-2014	UCI Dept. of Pharmaceutical Sciences "Most Inspiring Professor" Award
2013-2014	UCI Distinguished Professor Award for Teaching
2018	UCSF Campaign Alumni Award

#### **PROFESSIONAL ACTIVITIES**

##### **University of California, San Francisco**

1992-1994	Member, School of Pharmacy Admission Committee
1994-1995	Vice President, Phi Lambda Sigma (Pharmacy Leadership Society), School of Pharmacy
Fall 1994	Social Chair, Residency Class, School of Pharmacy
Spring 1995	Treasurer, Residency Class, School of Pharmacy
1995	Faculty Advisor, Hypertension Screening Project
2011-present	Member, UCSF School of Pharmacy Alumni Board

**Western University of Health Sciences, Pomona, CA**

1996	Founding Faculty Member, College of Pharmacy
1997	Member, College of Pharmacy American Council on Pharmacy Education Task Force
1996-1997	Member, Promotion and Tenure Committee, College of Pharmacy
1996-1998	Member, Curriculum Committee, College of Pharmacy
1996-2004	Member, Humanism and Diversity Committee
1997-1998	Member, Planning, Priorities and Resources Committee
1997-1998	Co-chair, Humanism in Health Sciences Committee
1998	Faculty Advisor, American Heart Association Hypertension Screening
1998-2000	Speaker, White Coat Ceremony
1998-2000	Editor in Chief, <i>Humanism</i> journal, Western University of Health Sciences
1998-2000	Member, Awards and Scholarship Committee
1998-2001	Chair, Humanism in Health Sciences Committee
1999-2000	Member, Student Liaison Committee
1999-2000	Member, Faculty Senate
2000-2001	Faculty Editor, <i>Humanism in the Health Sciences</i> Journal
2000-2001	Managing Editor, <i>Humanism in the Health Sciences</i> Journal
2000	Co-coordinator, Blood Pressure and Cholesterol Screening on Campus
2000	Member, Research and Graduate Committee
2001-2001	Member, Search Committee for Pharmacy Practice Department Chair

**University of California, Irvine (1997-present)**

1997	Member, Congestive Heart Failure Improvement Team
1999-2001	Member, Institutional Review Board (IRB)
1998-present	Faculty Advisor, Dialogue Society at UCI
2002	Member, Biomedical Ethics Society of Students
2003-2007	Advisory Board Member, Center for Scientific Study of Morality and Ethics
2004	Member, Organizing Committee, Stem Cell: Science, Ethics and Politics in Dialogue Conference
2005	Faculty Organizer, Panel Discussion, Understanding the Promise and Problems of Stem Cells
2005	Member, Organizing Committee, A Symposium on "Safety and Security in a Turbulent World"
2006	Member, Search Committee, Joint Appointment: Pharmaceutical Sciences and Chemical Engineering
2006	Member, Organizing Committee, Stem Cells and Society: A Series of Dialogues
2006	Member, Committee on Advancement to Candidacy Proposal, "Harnessing Self-Made Phage Libraries" by Cathie Overstreet, Department of Molecular Biology & Biochemistry
2007-2010	Ambassador, UCI Dr. Samuel M. Jordan Center Persian Studies and Culture
2008-2009	Advisor, Academic Geriatric Resource Center, Campus Advisory Committee
2009	Member, Graduate Student Committee of Galina Dvorkina, Department of Ecology and Evolutionary Biology
2009	Faculty Organizer, Panel Discussion, The Science Behind Happiness

	Co-sponsors: The UCI Center for Scientific Study of Ethics and Morality & The UCI Susan Samueli Center for Integrative Medicine
2009	Faculty Organizer, Panel Discussion, Spirituality and the Brain
	Co-sponsors: The UCI Center for Scientific Study of Ethics and Morality & The UCI Susan Samueli Center for Integrative Medicine
2011& 2012	Faculty Organizer, Music for the Mind
	Fund raiser for the Susan Samueli Center for Integrative Medicine Autism Initiatives
2010-2016	Member, UCI Senate Assessment Committee
2010-2015	Project Leader, Pharmaceutical Sciences Assessment Program
2011-2016	Member, Dean's Leadership Council, UCI Claire Trevor School of the Arts
2012-2013	Interim Co-Director, UCI Center for Scientific Study of Ethics and Morality
2014-2015	Member, Search Committee for the Dean of School of Medicine and the Vice Chancellor for the Health Affairs. UCI
2016	Member, Search Committee for the Dean of UCI Gross School of Nursing
2015-present	Member, The UCI School of Pharmacy Planning Committee, UCI
2004-2018	Advisory Board Member, UCI Susan Samueli Center for Integrative Medicine
2007-present	Executive Board Member, The UCI Center for Scientific Study of Ethics and Morality
2006-present	Member, Organizing Committee of Susan Samueli Center for Integrative Medicine Women Wellness Day Conference
2010-2015	Member, Undergraduate Deans Council
2010-present	Member, UCSF School of Pharmacy Alumni Board
2012-2013	Acting Co-Director, The UCI Center for the Scientific Study of Ethics and Morality
2010-2013	Member, UCI Senate Assessment Committee
2011-present	Member, UCI Assessment Group
2010-11	Chair, Merit Review Committee. Department of Pharmaceutical Sciences
2010-2011	Member, Tenure Committee. Department of Pharmaceutical Sciences
2011-2015	Member, UCI Assessment Group
2012-13	Member, Merit Review committee. Department of Pharmaceutical Sciences
2013-14	Member, Chair 5 <sup>th</sup> year Review Committee. Department of Pharmaceutical Sciences
2013-2014	Member, Lecturer PSOE Search Committee. Department of Pharmaceutical Sciences
2014-2015	Member, VC for Health Affairs and Dean of School of Medicine Search Committee
2015-present	Member, UCI Pharmacy School Organizing Committee
2016-2017	Member, Clinical Strategic Plan Development Committee
2016	Member, Dean of Sue and Bill Gross School of Nursing Search Committee
2017	Member, UC-Wide Inaugural Drug Discovery Symposium, UCLA. Los Angeles, CA

**MAJOR COMMITTEE ASSIGNMENTS**

Year	Committee
1998-present	Faculty Advisor, Dialogue Society at UCI
2006-present	Member, Organizing Committee of Susan Samueli Center for Integrative Medicine Women Wellness Day Conference
2007-present	Executive Board Member, The UCI Center for Scientific Study of Ethics and Morality
2010-present	Member, UCSF School of Pharmacy Alumni Board
2015-present	Member, UCI Pharmacy School Organizing Committee
2016-2017	Member, UCI School of Medicine Clinical Strategic Plan Development Committee
2016-present	UCI-Representative, UC-Wide Drug, Device, Discovery and Development (D4)
2004-2018	Advisory Board Member, UCI Susan Samueli Center for Integrative Medicine
2017	UCI Quality & Safety Committee on Curricular Development COHS
2017-present	Executive Committee Member, The UCI Anti-Cancer Challenge

**PROFESSIONAL ORGANIZATIONS**

Year	Society
1996-2003	Member, Practice Research Network Cardiology, American College of Clinical Pharmacy (ACCP)
1997-2003	Member, Practice Research Network Ambulatory Care, American College of Clinical Pharmacy (ACCP)
1997-1998	Member, Research Affairs Committee, American College of Clinical Pharmacy (ACCP)
1998-2000	Member, Practice Research Network Women Health, American College of Clinical Pharmacy (ACCP)
1998-2000	Referee, American Journal of Pharmacy Education
1999	Member, Continuing Education Committee, California Society of Health System Pharmacists Focus 1999
2001	Alternate Delegate, California Society of Health System Pharmacists
2007-present	American Aging Association
2008-2012	Longevity Consortium, National Institute of Aging, NIH
2014-present	The Association of Analytical Communities International (AOAC)

**COMMUNITY ORGANIZATIONS**

Year	Service
1987-1988	Volunteer Tutor for Physically Challenged Students, Mesa College, San Diego, CA.
1988-1990	Volunteer Peer Adviser, Extended Opportunities, Programs and Services, Cypress, CA.
1989-1990	Volunteer Outdoor Program Coordinator, UNICEF, Atlanta, GA
1996-2001	Member, Claremont Community Friends, Claremont University, Claremont, CA.
1996-1998	Young Adult Class Teacher, Woodland Hills, California; Los Angeles, CA.
2000	Project Coordinator, Heart Disease Risk Factor Assessment, Pomona, CA.
2002	Member, Organizing Committee, United Nation's Fundraiser Programs

2003	Member, Conference Organizing Committee, Global Impact of Ethics in Science and Media Symposium, University of California, Los Angeles
2003-2004	Speaker, UNICEF (United Nation's Children Fund), Los Angeles, CA.
2004	Member, Conference Organizing Committee, Music: A Universal Language for Harmony, University of California, Los Angeles
2008-2009	Member, Board of Directors, Children Hope International Literacy and Development, Orange County, CA
2012&2013	Member, Organizing Committee, Iranian-American Women Leadership Conference
2012	Member, TEDxYouth Bommer Canyon Organizing Committee
2011-present	Member, FDA/AOAC/USP Biannual Conference Organizing Committee
2016-2017	Speaker, The Academy High School. Santa Ana, CA
2018-present	Member, WISEPlace Women Shelter Campaign, Santa Ana, CA

## **PEER REVIEW**

### **Ad hoc Journal Reviewer:**

2007-present	Reviewer, Central European Science Journal
2007-2009	Reviewer, Biogerontology
2008-present	Reviewer, Evidence-based Complimentary and Alternative Medicine
2009-2016	Editorial Board Member, Biogerontology
2010	Reviewer, Aging Cell
2011	Reviewer, PlosONE
2015-present	Reviewer, Rejuvenation Research

### **Peer Review Activities:**

2011-present	Ellison Medical Foundation
2011-present	American Federation for Aging Research
2011-present	National Institute of Health, Center for Complementary and Integrative Health Study Section

## **REPORT OF RESEARCH**

### **Major Research Interests**

#### **- *Healthspan Pharmacology***

Identification of anti-aging botanical extracts and their putative active compounds that increase lifespan and improve healthspan, evaluation of their mechanism of action on potential pathways of aging (nutrient signaling pathways such as sirtuin and insulin signaling, mitochondrial bioenergetics, autophagy, microbiome), using fruit flies as a model system to study human diseases such as aging, Huntington Disease and Alzheimer's Disease.

#### **- *Safety of Dietary Supplements***

Evaluation of adverse effects of dietary supplements using animal models (fruit flies and mice).

#### **- *Educational Research:***

Evaluation of the impact of Life101 course on students' stress and well being.

#### **- *Community Based Research***

Evaluation of point-of-care diagnostics, evaluation of *Rhodiola rosea* farming in Alaska.

### **Narrative Description of Research**

The Jafari Laboratory developed and validated an algorithm to screen, identify, and evaluate potential anti-aging compounds (natural products and botanical extracts) using *Drosophila melanogaster* as the main model system. Since 2005, we have identified five natural products

that have extended the lifespan and improved the healthspan of flies (*Rhodiola rosea*, *Rosa damascena*, curcumin, cinnamon, and *Angelica keiskei*). Using various model systems, we have been evaluating the anti-aging mechanism of these products and we recently tested *Rhodiola rosea* in a leptin deficient mouse model. Our goal is to eventually evaluate our test compounds on biomarkers of health in humans.

I am also involved in an educational research project based on the Life101 course that I developed in 2013. Life101 teaches students healthy lifestyle choices with the goal of helping students manage their stress. We have been collecting longitudinal data on the short term and long term impact of this course on our students' well being.

## **Research Funding Information**

### **HL-31210 (NIH), Grant in Aid from the American Heart Association, Hyseq, Inc. 1998-2002 Pharmacogenomics of Cardiovascular Therapies**

The major goal of this project was to evaluate the impact of pharmacogenomics variables on response to lipid lowering medications.

Role: Co-Investigator, University of California, Irvine (PI: John Kane, MD, PhD, UCSF)

### **National Institute of Healthcare Research/Templeton Foundation 1998-2000 Educational Grants in Spirituality and Medicine**

The major goal of this project was to develop a course and an educational research program in Schools of Medicine and Pharmacy on the importance of the knowledge of various belief systems in patient care.

Role: Primary Investigator, Western University of Health Sciences, Pomona, Ca

### **National Institute of Healthcare Research/Templeton Foundation 2000-2002 Educational Grants in Spirituality and Medicine**

The major goal of this project was to develop a course and an educational research program in School of Medicine on the importance of the knowledge of various belief systems in patient care.

Role: Co-Primary Investigator, University of California, Irvine

### **R01 GM085251-01 (NIH) 3/01/2009-2/28/2013 Drosophila as a Model for Chemotherapy Pharmacogenomics**

The major goal of this project was to use *Drosophila* as a model system for pharmacogenomic studies.

Role: Co-investigator, University of California, Irvine (PI: Anthony Long)

### **AG-NS-0495-08 Ellison Medical Foundation 8/1/2008-7/31/2012 The Role of Mitochondrial Superoxide in Aging**

The purpose of this work was to determine the role of mitochondrial superoxide in aging and disease.

Role: Supervisor, University of California, Irvine (PI: Samuel E. Shriner)

### **R21AT004987-01A2 (NIH) 4/01/2010 - 3/31/2013 Botanicals, Mitochondrial Bioenergetics, and Aging Pathways**

The major goal of this project was to evaluate the mechanism of action(s) of four botanical extracts on common aging pathways using *Drosophila* as the model system.

Role: Primary Investigator, University of California, Irvine

**R21CA152804-01A1 (NIH)**

3/08/2011-2/28/2013

***Rhodiola rosea* Extracts, Salidroside and Bladder Cancer Chemoprevention**

The major goal of this project was to evaluate the impact of *Rhodiola rosea* and one of its putative active compounds, salidroside, in a human cultured cell bladder cancer model.

Role: Co-investigator, University of California, Irvine (PI: Xiaolin Zi)

**UCI Bridge Funds**

8/2012-6/2013

The purpose of these funds was to develop a cell culture facility to complement my work with fruit flies.

Role: Primary Investigator, University of California, Irvine

**Alaska *Rhodiola rosea* Products Cooperative Farmers**

2016

**Improving the Quality of *Rhodiola rosea* in Alaskan Farms**

The purpose of this project was to evaluate the quality of *Rhodiola rosea* harvest from various farmers in Alaska through characterization of the root extracts using analytical HPLC and *in vivo* assays.

Role: Primary Investigator, University of California, Irvine

**UCI/Ewha Women University in Seoul, Korea Collaborative Grant** 2015-2016 & 2016-2017  
**Korean Botanicals, Lifespan and Health Span**

The goal was to evaluate the impact of indigenous Korean botanicals (i.e., *Angelica keiskei*) and their putative active compounds on the lifespan and healthspan of fruit flies.

Role: Primary Investigator at UCI (Eun-Kyoung Seo, PhD was PI in Seoul, Korea)

**School of Medicine and Dept. of Pharmaceutical Sciences**  
**Collaborative Grant**

7/2017-7/2018

**The Impact of Metformin, Rapamycin, and *Rhodiola rosea* on Surrogate Biomarkers of Lifespan and Healthspan in Leptin Receptor Mutant Mice**

The goal of this project was to collect preliminary data for a study to evaluate the impact of *Rhodiola rosea* on lifespan and healthspan of normal aging mice.

Role: Co-Primary Investigator from Pharmaceutical Sciences, University of California, Irvine (Co-PI: Richard Van Etten, MD, PhD from School of Medicine)

**UCI Microbiome Initiative Technical Support Grant**

2018

**The Impact of *Rhodiola rosea* on the microbiome of leptin deficient mice.**

Role: Primary Investigator, University of California, Irvine

**REPORT OF TEACHING**

**Local Contributions**

1. Teaching of Undergraduates, Professional Students, and Residents

**Medical and Pharmacy Students and Residents**

**Title/Description**

**Enrollment**

(Students/Residents)

**Dates**

Cardiology Clerkship

CCU  
UCSF Medical Center

14/4

1995-1996



Cardiovascular Pharmacotherapy Block	Western University College of Pharmacy	125 PharmD students	1997-2001
Pharmacology	Western University College of Osteopathic Medicine	100 (DO students)	1997-2001
Cardiology Clerkship	CCU and Outpatient Clinics UCI Medical Center	29/4	1997-2001
Advanced Cardiology Clerkship	Research in Cardiovascular Pharmacotherapy, UCI	3 residents	1999-2001

### **Undergraduate Students**

UCI Pharmaceutical Sciences Internship Program (FDA Irvine and Irvine Pharmaceuticals Company)	8	2012/13/14/15
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### **MAJOR DIDACTIC TEACHING ACTIVITIES (Since 2005)**

Year	Course	Units # Students	% Effort
2006/07	Drugs: The Good and The Bad Bio 92 (New Course in 2006)	2 80/100	100
2006/07/07/09/10/11/12/13/14/15/16 and 2017	Molecular Pharmacology (PHRMSCI 170A) (New Course in 2006)	4 120-320	100
2008/09/10 & 2011	Medical Pharmacology (UCI SOM)	NA	6 hours
2007/07/09/10/11/12 & 2013	Topics in Pharmaceutical Sciences (PHRMSCI 177)	2 100	2 hours
2013/14/15/16 & 2017	Life101 (PHRMSCI 42) (New Course in 2013)	1 115-200	100
2012/13/14/15 & 2016	Professional Internships (PHRMSCI 197) (New Course in 2012)	2 6/4/3	100
Summer 2014	Online Molecular Pharmacology (PHRMSCI 170A)	4 35	100
Summer 2014/15/16& 2017	Online Life 101 (PHRMSCI 42)	1 270-320	100

### **2. Research Mentorship (UCI only)**

#### **Graduate and Post-doctoral Supervision**

1998	Rachna Patel, Pharmacy Resident (VA Long Beach) ( <i>Pharmacoeconomics of statins</i> )
2001	Omard Badawi, Pharmacy Resident UCI ( <i>Management of Dyslipidemia in HIV</i> )
2008-2012	Samuel Shriner, Ph.D., Associate Project Scientist PI, Ellison Medical Foundation ( <i>The Role of Mitochondrial Superoxide in Aging</i> )
2011-2013	Michael Okuro, M.S. Student (Natural Product Synthesis/Efficacy Chemistry)

2012-2016 Terry Lopez, Ph.D (Botanicals Adverse Effects)  
 2015 Annee Wildgoose, Competitive Edge Summer Fellow, Pharmaceutical Sciences  
 2016 Anjelica Cardenas, NIH Summer Fellow, Pharmaceutical Sciences, UCI

### 3. Undergraduate Research

#### **Undergraduate Research Course: PHRMSCI 199 and BIOSCI 199 Undergraduate Research Opportunity Program (UROP), Summer Undergraduate Research Program (SURP), and Excellence in Research Recipients**

2006-Present About 180 Undergraduate Students, 5 Runner-ups for Excellence In Research Award, Two Chemistry Honors Students, and one recipient of Excellence in Research Award (2012).

#### **Selected UROP/SURP recipients (2009-2017)**

2009 Tracy Le UROP: The impact of *Rhodiola rosea* and its active putative compounds in differentiated neurons from P19 embryonal carcinoma stem cells.

2009 Gerald Tran UROP: The activation of mammalian SIR proteins by *Rhodiola rosea*.

2009 Tanya Duong SURP: The role of SIRT activity in *Rhodiola rosea*. in vitro and *R. rosea*-fed *Drosophila melanogaster* in vivo.

2009 Ai-Quyen Duong UROP: The effect of *Rhodiola rosea* on SIR activity.

2009: Maral Gazarian UROP: *Rhodiola rosea* increased resistance to ROS in *Drosophila melanogaster*.

2009 Christopher Dagher UROP: The potential rejuvenating properties of *Rhodiola rosea* on *Drosophila melanogaster*.

2010 Beina Azadgoli UROP: The effects of *Rhodiola rosea* on sleep deprivation and circadian rhythms in *Drosophila melanogaster*.

2010 Nelli Ghazaryan UROP: The Effects of the active ingredients of *Rhodiola rosea*, Salidroside, and Rosavin, on lifespan extension in *Drosophila melanogaster*.

2010 Steven Maler UROP: Measuring the effects of *Rhodiola rosea* on the Sirtuin pathway and aging in *Drosophila melanogaster*.

2010 Karen Vo: *Rhodiola rosea* increase lifespan and improves healthspan in aged *Drosophila melanogaster*.

2010 Tracy Le UROP: The impact of *Rhodiola rosea* and its active putative compounds during oxidative stress in *Drosophila melanogaster*.

2011 Stephanie M. Truong UROP: Characterization of the putative active compounds in *Rhodiola rosea*.

2012 Steven Kurumuda SURP: The Action of *Cinnamomum aromaticum* on Insulin and Insulin-Like growth factor signaling in *Drosophila melanogaster*.

2012 David Lu UROP/SURP: Identifying Green Tea's Effect on Dietary Restriction in *Drosophila melanogaster*.

2012 Kevin Pham UROP: The impact of *Rosa damascena* on the target of rapamycin

- 2012 Teresa Tran UROP: The action of curcumin as a sirtuin-activating compound and dietary restriction mimetic.
- 2012 Teresa Tran SURP: Protection of human cultured cells against oxidative stress by Tahitian botanical plants.
- 2012 Kathryn Salvadora SURP: The effects of *Rhodiola rosea* on mitochondrial dysfunction.
- 2012 Kevin Kuang Lee UROP/SURP: Identifying *Rhodiola rosea*'s mechanism of action through dietary restriction.
- 2012 Victor Ramos SURP: The treatment of mitochondrial dysfunction in cultured cells by *Rhodiola rosea*.
- 2012 Vincent Cagonot SURP: Evaluating the effects of *Rosa damascena* on the Sirtuin pathway and aging in *Drosophila melanogaster*.
- 2012-2013 Steven Kurumuda UROP: Identifying *Cinnamomum aromaticum*'s Mechanism of Action through Dietary Restriction in *Drosophila melanogaster*.
- 2012-2013 Andrew N.M. Pham UROP: The effect of Maltodextrin on *Drosophila melanogaster* lifespan.
- 2013 Christie Yoon SURP: The effect of *Rhodiola rosea* in survival, oxidative stress tolerance, and differentiation of pluripotent stem cells.
- 2013 Beatrice T. Chiang UROP: The ability of Green Tea to protect against stress.
- 2011 Beatrice T. Chiang UROP: The impact of Green Tea on the Insulin-Signaling pathway.
- 2013 Elyse M. Young UROP: Biological Characterization of Rosavin and Synthetic Rosavin Analogs.
- 2013 Miah Pollack SURP: The UV-protective action of *Rhodiola rosea* in human keratinocytes.
- 2012 Miah Pollack UROP: Validation of 60-Fullerene's effect on *Drosophila melanogaster* lifespan.
- 2013 Steven Kurumada SURP: The action of *Cinnamomum cassia* on locomotive activity in *Drosophila melanogaster*.
- 2013-2014 Andrew N.M. Pham UROP: The action of *Rhodiola rosea* on carbohydrate metabolism in the fruit fly.
- 2013 Naziha B. Hussain UROP: The action of *Rhodiola rosea* on physical performance and lifespan in aged flies.
- 2013-2014 Benjamin V. Nguyen UROP: The pharmacokinetics of herbal extracts in *Drosophila melanogaster*.
- 2014 Jocelyn Huey UROP: The effect of *Rhodiola rosea* on *Drosophila melanogaster* cyclic AMP signaling and lifespan extension.
- 2014 Naziha B. Hussain UROP: *Rhodiola rosea* effects: locomotion & lifespan of aged flies.
- 2014-2015 Mackenzie G. Poole UROP: The induction of autophagy following treatment with *Rhodiola rosea* in *Drosophila melanogaster*.
- 2014 Shannon Ramsden UROP: Extension of *Drosophila melanogaster* lifespan by green tea through inhibition of dietary iron.

- 2014 Shannon Ramsden UROP: The effect of green tea and iron on male *Drosophila melanogaster* fertility and lifespan extension.
- 2014-2015 Hoang M. Pham UROP: Mitoferrin is essential for the effects of green tea polyphenols on lifespan and fertility of male *Drosophila melanogaster*.
- 2014-2015 Richelle Homo UROP: Consumption and fate of natural products in *Drosophila melanogaster*.
- 2015 Julia C. Barbour UROP: The action of natural products on inflammation in *Drosophila melanogaster*
- 2015 Rupal Golokiea UROP: The action of *Rhodiola rosea* on *Drosophila* lifespan and cyclic AMP levels
- 2015 Alexandra Le UROP: Rescue of mitochondrial dysfunction by *Rhodiola rosea*
- 2015 Benjamin V. Nguyen UROP: The action of *Rhodiola rosea* root extract in rescuing mitochondrial dysfunction
- 2015 Cindy T. Nguyen UROP: Evaluation of *Rhodiola rosea* in a *Drosophila melanogaster* model of Huntington's disease
- 2015 Hanh M. Pham UROP: The study of cinnamaldehyde on Alzheimer's disease *Drosophila melanogaster*
- 2015 Sally T.N. Pham UROP: The impact of *Angelica keiskei* on lifespan and healthspan
- 2015 Julia C. Barbour SURP: The action of natural products on inflammation in *Drosophila melanogaster*
- 2015 Rupal Golokiea SURP: The action of *Rhodiola rosea* on *Drosophila* lifespan and cyclic AMP levels
- 2015 Richelle Roelandt L. Homo SURP: Consumption and fate of natural products in *Drosophila melanogaster*
- 2015 Cindy T. Nguyen SURP: Evaluation of *Rhodiola rosea* in a *Drosophila melanogaster* model of Huntington's disease
- 2015 Benjamin V. Nguyen SURP: The action of *Rhodiola rosea* root extract in rescuing mitochondrial dysfunction
- 2015 Hanh M. Pham SURP: The study of cinnamaldehyde on Alzheimer's disease *Drosophila melanogaster*
- 2015 Sally T.N. Pham SURP: The impact of *Angelica keiskei* on lifespan and health span
- 2015 Julia Barbour UROP: The action of *Rhodiola rosea* on inflammation in *Drosophila melanogaster*
- 2015 Julia C. Barbour UROP: Impacts of Green Tea Polyphenols on *Drosophila melanogaster* development and reproduction.
- 2015 Rupal Golakiea UROP: The action of *Rhodiola rosea* on *Drosophila melanogaster* lifespan and cyclic AMP levels
- 2015 Christian Gonzalez UROP: The study of reproductive behaviors in Alzheimer's disease models of *Drosophila melanogaster* and cinnamaldehyde as a suggested treatment
- 2015 Richelle Roelandt L. Homo UROP: Quantification of cinnamaldehyde in *Drosophila melanogaster* using ESI-UPLC/MS-MS

- 2015 Julia C. Barbour UROP: The action of natural products on inflammation in *Drosophila melanogaster*.
- 2015 Cindy T. Nguyen UROP/SURP: Evaluation of *Rhodiola rosea* in a *Drosophila melanogaster* model of Huntington's Disease.
- 2015 Yerazik Tahmasian UROP: The effect of Green Tea Polyphenols on Iron Metabolism: Lifespan and fertility of DMT deficient *Drosophila melanogaster*.
- 2015 Shannon Ramsden UROP: The effect of two different forms of iron on *Drosophila melanogaster*.
- 2015 Benjamin V. Nguyen SURP/UROP: *Rhodiola rosea* confers protection against mitochondrial dysfunction in *Drosophila melanogaster*.
- 2015 Sean P. Hogan UROP: *Rhodiola rosea* increases the lifespan of *Drosophila melanogaster* independently of carbohydrate content in the diet.
- 2015 Mackenzie G. Poole UROP: The effect of *Rhodiola rosea* on *Drosophila melanogaster* autophagy.
- 2015 Phillip Tran UROP: The effect of glucosamine on glucose metabolism and aging in *Drosophila melanogaster*.
- 2016 Christian Gonzalez UROP: Challenging the standardization of herbal extracts: *Rhodiola rosea*
- 2016 Alexandra Le UROP: The effect of *Rhodiola rosea* on mitochondrial and glycolytic dysfunction on a cell culture model
- 2016 Hanh M. Pham UROP: Rescue of Alzheimer's disease in *Drosophila melanogaster* by cinnamaldehyde
- 2016 Christian Gonzalez SURP: Challenging the standardization of herbal extracts: *Rhodiola rosea*
- 2016 Khachik E. Labachyan SURP: Establishing *Drosophila melanogaster* as a model for inflammation through examination of the gut microbiome in response to natural products
- 2016 Hanh M. Pham SURP: Rescue of Alzheimer's disease in *Drosophila melanogaster* by cinnamaldehyde
- 2016 Jasmin Arabit UROP: The effects of *Rhodiola rosea* on a *Drosophila melanogaster* model of Huntington's disease
- 2016 Khachik E. Labachyan UROP: The impact of *Rhodiola rosea* on the gut microbiome of *Drosophila melanogaster*
- 2016 Hanh M. Pham UROP: The effects of cinnamaldehyde on the healthspan of Alzheimer's disease *Drosophila melanogaster* models
- 2016 Howard J. Phang UROP: Diet and supplementation: a combined therapy for healthspan improvement
- 2017 Jasmin Grace J. Arabit UROP: The positive impacts of *Rhodiola rosea* in a fly model of Huntington's disease
- 2017 Jasmin Grace J. Arabit UROP: *Rhodiola rosea* may improve symptoms of Huntington's disease in a fly model

- 2017 Dara Kiani UROP: The impact of *Rhodiola rosea* on the gut microbiome of *Drosophila melanogaster*
- 2017 Hanh M. Pham UROP: The impact of cinnamaldehyde on the healthspan of Alzheimer's disease *Drosophila melanogaster* models
- 2017 Jasmin Grace J. Arabit SURP: *Rhodiola rosea* may improve symptoms of Huntington's disease in a fly model
- 2017 Hanh M. Pham SURP: The impact of cinnamaldehyde on the healthspan of Alzheimer's disease *Drosophila melanogaster* models
- 2017 Howard J. Phang SURP: Diet and supplementation: a combined therapy for healthspan improvement

## **Regional, National or International Contributions**

### **1. Invited Presentations at Conferences and Professional Events**

#### **1995-1997**

- Trends in the occurrence of recreational drug-induced seizures. Western States Conference for Pharmacy Residents, Fellows and Preceptors. Monterey, CA.
- Chemoprophylaxis with Aspirin: Stroke, Myocardial Infarction, and Peripheral Vascular Diseases. Presentation at Preventive Care for the Elderly. California Geriatric Education Center at UCLA. Santa Monica, CA.
- Management of Congestive Heart Failure in Primary Care Settings. First Annual Alumni CME Seminar: Essentials of Primary Care. Western University of Health Sciences, Pomona, CA.
- Pharmacotherapy of Congestive Heart Failure. California Society of Health-System Pharmacists. Newport Beach, CA.
- Lipoproteins and Lipid Disorders. UCI Heart Disease Prevention Program. Irvine, CA.

#### **1998**

- Cholesterol: The Silent Serial Killer. Cardiology Grand Rounds. UCI Medical Center. Orange, CA.
- Refractory Heart Failure. Core Lecture Series. UCI Medical Center and VA Long Beach, CA
- Cholesterol. Continuing Medical Education, Pathology Grand Rounds. UCI Medical Center. Orange, CA.
- Spirituality and Depression. California Society of Health-System Pharmacists Focus 1998. Lake Tahoe, NV.
- Management of Congestive Heart Failure in the Elderly. Geriatric Pharmacy mini-Residency Program. Western University of Health Sciences and California Geriatric Education Center. Pomona, CA.
- Management of Lipid Disorders in the Elderly. Geriatric Pharmacy mini-Residency Program. Western University of Health Sciences and California Geriatric Education Center. Pomona, CA.

#### **1999**

- Neurohormonal Management of Congestive Heart Failure. University of California at Irvine, Santa Ana Clinic Noon Conference. Santa Ana, CA.

- Angiotensin Receptor Courseers: A New Tool for the Pharmacological Management of Hypertension. San Gabriel Society of Health System Pharmacist CE Program. Los Angeles, CA and Costa Mesa, CA.
- Effectiveness of Cholesterol Lowering for Secondary Prevention in CHD Patients. Updates for the General Internist CE Program. University of California at Irvine, College of Medicine. Newport Beach, CA.
- Artery, The Good and The Bad: Hypertriglyceridemia as a Cardiac Risk. California Society of Health System Pharmacists Focus 1999. Long Beach, CA.
- Natural Meditation. California Society of Health System Pharmacists Focus 1999. Long Beach, CA.

## **2000**

- Hypertriglyceridemia as a Cardiac Risk Factor. University of California, Irvine, Noon Conference. Orange and Long Beach, CA.
- Dyslipidemia in the Elderly. CME Update in Geriatrics. Western University of Health Sciences, Pomona, CA. Antioxidants and
- Pharmacogenomic Research in Dyslipidemia. Cardiology Faculty Development Seminar. University of California, Irvine.
- Ethical Risk Factors...Cardiac Risk Factors. California Society of Health System Pharmacists, Students Chapter. Western University of Health Sciences, Pomona, CA
- Treatment of Aggression and Impulsivity. Lancaster State Prison. Grand Rounds. Lancaster, CA
- Walk In Lipid Testing Program: The Value of Point of Care Services. American College of Cardiology, Los Angeles, CA.

## **2001**

- Cholesterol Management. University of California, Irvine, Cardiology Fellowship Lecture Series. Orange, CA.
- Genetic Markers in the Management of Dyslipidemia. American College of Clinical Pharmacy Annual Meeting. Tampa, FL
- Dual Diagnosis: Bipolar Disorder and Substance Abuse. Hollywood Mental Health Clinics. Grand Rounds. Hollywood, CA.

## **2002**

- The Clinical Application of Pharmacogenomics: Are we there yet? University of California, Irvine, Noon Conference. Orange and Long Beach, CA.
- The Role of Combination Therapy in Schizophrenia. Yuba City Mental Health Clinics. Grand Rounds. Yuba City, CA.
- New Treatment Modalities in Schizophrenia. University of California, Davis, Grand Rounds. Sacramento, CA.
- Educational Research: Grant- Based Courses. American College of Clinical Pharmacy. Savannah, GA
- Dual Diagnosis: Bipolar Disorder and Substance Abuse. University of California at Davis Mental Health Clinic, Grand Rounds Sacramento, CA.
- Cardiac Risk Factors-Ethical Risk Factors, University of California, Irvine
- Pharmacokinetics of Divalproex Sodium ER and IV New England Medical Center, Department of Pediatric Neurology, Noon Conference Boston, MA
- Metabolic Complications of Medications Used in Schizophrenia Southern California Society of Psychiatry Riverside, CA
- Metabolic Complications of Medications Used in Schizophrenia. University of California, Irvine, Psychiatry Grand Rounds Orange, CA

- Divalproex Sodium Formulations. University of California, Davis Mental Health Clinic, Grand Rounds, Sacramento, CA.

### **2003**

- Adjunctive Therapy Lowers Elevated Cholesterol Associated with Olanzapine and Risperidone Treatment of Schizophrenia. International Congress on Schizophrenia Research. Colorado Springs, CO
- Metabolic Complications of Atypical Antipsychotics. Manhattan Psychiatric Clinic Grand Rounds New York, NY
- Pharmacokinetic Properties of Intravenous Antiepileptic Medications Jamaica Medical Center Morning Conference, New York, NY
- Divalproex Adjunctive Therapy Lowers Elevated Cholesterol Associated with Olanzapine and Risperidone Treatment of Schizophrenia. International Congress on Schizophrenia Research. Colorado Springs, CO.

### **2005**

- Chinese Herbs, Antioxidation, and Longevity, Satellite Meeting of XXXV IUPS. Beckman Center, Irvine, CA
- Drug Development: From Benchtop to Bedside. Susan Samueli Center for Integrative Medicine, Irvine, CA
- Evolutionary Pharmacology of Aging: Rules for the Use of Model Systems 2005 Buck Institute Symposium, Novato, CA.

### **2006**

- UC Irvine Faculty Panel: Careers in Biomedical Sciences Santa Ana College, Santa Ana, CA
- The Anti-Aging Properties of Chinese Herbs: Proposed Rules of Investigation Susan Samueli Center for Integrative Medicine, Irvine, CA
- A Scientific Recipe for an Anti-Aging Salad, 4<sup>th</sup> Annual UCI Women's Wellness Day Conference, Irvine, CA
- The Healthy Living Luncheon, UCI Susan Samueli Center for Integrative Medicine, Zov's Bistro, Tustin, CA

### **2007**

- *Drosophila Melanogaster* as a Model System to Evaluate Drug Induced Central Nervous System Adverse Effects. International Congress on Schizophrenia Research, Colorado Springs, Co.
- Anti-Aging Research using Fruit Flies. Sally Ride Science Festival for Girls at University of California, Irvine, CA
- The Truth About Anti-Aging Foods and Diets: The Scientific Evidence, 5<sup>th</sup> Annual UCI Women's Wellness Day Conference, Irvine, CA

### **2008**

- Extension of *Drosophila* Lifespan by *Rhodiola rosea* Through an Anti-oxidant Independent Mechanism, Understanding Aging: Biomedical and Bioengineering Approaches, UCLA, Los Angeles, CA
- *Rhodiola rosea* (SHR-5) Protects Human Cells Against Oxidative Stress, Understanding Aging: Biomedical and Bioengineering Approaches, UCLA, Los Angeles, CA
- Medical Education in Pharmaceutical Industry: The Good and The Bad. Rehabilitation Medicine Program, University of California, Irvine



- Screening Anti-Aging Compounds: Rules of Investigation. New Applications for Aging Research. : Bridging the Gap Between Model Organisms and Patients. San Diego, CA (Presenter and Moderator of the Session on Screening Anti-Aging Compounds)

## **2009**

- Successful Aging: Integrative Medicine. Annual UCI CME Conference, University of California, Irvine (Moderator of the session on Preventing Drug/Herb Interactions and Antioxidants, Vitamins, and Minerals)
- Authenticity of Herbal Extracts: Status and Challenges, UCI Research Symposium, From Molecular Biology to Human Therapies: Strategies, Challenges, and Opportunities, Irvine, CA
- Lifespan Extension and Modulation of Mitochondrial Superoxide Levels in *Drosophila melanogaster* by *Rhodiola rosea*, 19th IAGG World Congress in Gerontology and Geriatrics, Paris, France
- Co-Moderated the Keynote Lecture with Etienne Baulieu, "Place of sarcopenia in the frailty syndrome" by Luigi Ferrucci from National Institute on Aging (NIH). 19th IAGG World Congress in Gerontology and Geriatrics, Paris, France
- *Rhodiola rosea* and Protection of Human Cultured Cells Against Oxidative Stress. L'Oreal Research and Development, Paris, France
- *Rhodiola rosea* and Lifespan Extension. Southern California Drosophila Conference. University of California, Irvine
- *Rhodiola rosea* and Lifespan Extension. Signum Biotechnology, Princeton, New Jersey
- Lifespan Extension and Increased Stress Resistance in Flies fed *Rhodiola*. National Institute of Aging Longevity Consortium Meeting, San Diego, CA

## **2010**

- Practicing Public Scholarship: Rethinking Faculty Work (Panelist). Public Scholarship, Engaging Contradictions in the Contemporary University, University of California, Irvine
- Women Well Being Panel (Panelist). Nutraceuticals and Natural Products. Iranian-American Women Leadership Conference, Irvine, CA

## **2011**

- Herbal Extracts, Lifespan and Health Span  
The 21<sup>st</sup> Spring International Conference of the Korean Society of Gerontology: Intervention of Aging and Age-related Diseases, Busan, Korea
- Herbal Extracts, Lifespan and Health Span  
Food and Drug Administration & Association for Official and Analytical Chemists  
Irvine, CA
- Fundamental Studies with *Rhodiola rosea*, An Adaptogenic Plant  
International Scientific Acupuncture and Meridian Symposium  
The Beckman Center, Irvine, CA
- Women Well Being Panel (Panelist). Scientific Evidence Behind Anti-Aging Modalities. Iranian-American Women Leadership Conference, Costa Mesa, CA

## **2012**

- Slow-Aging with Botanicals, International Conference on Functional Foods  
University of California, Santa Barbara
- Essentials of Women Health Panel (Moderator). Iranian-American Women Leadership Conference, Irvine, CA
- Integrative Medicine in Women Health Panel (Moderator). OC Global Women Conference. Costa Mesa, CA
- Dietary Supplements. UCI Anteater Recreational Center Fitness Lunch

- How to live to be 200? UCI CEO Round Table Retreat Faculty Speaker

## **2013**

- Healthy Aging with Botanical Extracts: The Identification and Mechanistic Evaluation of Anti-aging Botanicals. International Congress on Gerontology and Geriatrics, Seoul, Korea
- Natural Therapies for Stress Management. UCI Women's Wellness Day Conference. Irvine, CA

## **2015**

- Anti-Aging Properties of Botanical Extracts. 10<sup>th</sup> Annual Biomedical Forum for Sino-American Biotechnology and Pharmaceutical. Irvine, CA
- Life101 for College Students. Associates of the President / Chancellor's Meeting. University of California, Irvine
- Dietary Supplements: Helpful or Harmful. UCI Chief Executive Roundtable Women's Forum. University of California, Irvine
- *Rhodiola rosea*: A novel botanical intervention to increase lifespan and improve health span. Biology of Ageing Conference. Singapore, Singapore
- Botanical Interventions to Improve Lifespan and Healthspan. National University of Singapore. School of Pharmacy. Singapore, Singapore

## **2016**

- The Science of Healthspan. International Women Forum Trusteeship. Irvine, CA
- The Science of Healthspan: Adding Healthy Years to Your Life. OCTANe Medical Device and Investor Forum. Irvine, CA
- The Science of Healthspan. UCI Paul Merage School of Business Wealth Management Conference. Newport Beach, CA
- Life101 for College Students. All-U Leadership Conference, Irvine, CA
- Long Healthy Lives. OCTANE Investigator and Medical Devices Forum. Irvine, CA

## **2017**

- Dietary Supplements: Helpful or Hurtful? Jewish Community Center Wellness Seminars. Newport Beach, CA
- Dietary Supplements: Helpful or Hurtful? Regents Points Assisted Living Community. Irvine, CA
- The Science of Healthspan: Adding Healthy Years to Human Life. 2017 UCI Reunions. University of California, Irvine.

## **2018**

- Fruit Flies: A Robust and Cost Effective Model System to Screen Therapeutics in Alzheimer's Disease. Society for Brain Mapping and Therapeutics 15<sup>th</sup> Annual Conference. Los Angeles, CA (conference postponed the track).

## **2. Invited Seminars at Academic Institutions (since 2008)**

### **2008**

- *Rhodiola rosea*, Lifespan Extension and Oxidative Stress, University of Florida, FL, Department of Aging and Geriatrics Division of Biology of Aging
- Herbal Extracts and Oxidative Stress, University of Southern California, Los Angeles, CA

- *Rhodiola rosea*, Lifespan Extension and Oxidative Stress, University of Aarhus, Aarhus, Denmark.
- *Rhodiola rosea*, Herbal Extracts and Anti-Aging, University of Duesseldorf Institut für Biochemie und Molekularbiologie, Duesseldorf, Germany

## **2009**

- Adaptogenic Plants in Modern Medicine: Fact or Fiction? Massachusetts Institute of Technology, Cambridge, MA
- Using *Drosophila* as a Model System to Screen for Anti-Aging Compounds, San Diego State University, Department of Biology, San Diego, CA

## **2010**

- *Rhodiola rosea* and Oxidative Stress, University of California at San Francisco and Pacific Medical Center Research Coordination Center, San Francisco, CA
- *Rhodiola rosea*, Lifespan, and Health Span. National Institute of Health Longevity Consortium Symposium, Washington DC, WA

## **2011**

- Improving Health with Plants: Science or Fiction, Public Talk at The University of French Polynesia, Tahiti
- Herbal Extracts, Lifespan and Health Span, Department of Phytochemistry, University of French Polynesia, Tahiti
- Herbal Extracts, Lifespan and Health Span, Tokyo University of Life Sciences and Pharmacy, University Talk, Tokyo, Japan
- The Impact of Herbal Extracts on Pathways of Aging, Inha University, Department of Biology Seminar, Seoul, Korea

## **2012**

- Medicine and Politics Seminar/Panel Discussion (Moderator), University of California, Irvine
- Searching for Anti-Aging Botanicals. Science Departments Seminar. University of Pepperdine, Malibu, Ca

## **2013**

- Pharmaceutical Sciences at the University of California, Irvine. Hana Academy, Seoul, Korea

## **2014**

- Debating ACA. ASUCI Panel Discussion. University of California, Irvine
- Botanical Extracts and Longevity Pathways. Inha University, Seoul, Korea
- Can Botanical Extracts add healthy years to our lives by modulating our longevity pathways? University of Rome Tor Vergata, Italy  
(A seminar organized by the Italian Ministry of Health for *Expo 2015 Medicinal Plants*)
- Botanical Extracts and Longevity Pathways. Inha University, Seoul, Korea
- Botanical Extracts and Longevity Pathways  
School of Medicine and Kremlin Bicetre Hospital. Paris, France

## **2015**

- Modulation of Health Span with Botanical Extracts. Department of Biology Seminar. University of Barcelona, Barcelona, Spain
- *Rhodiola rosea*: A Novel Botanical Intervention to Increase Lifespan and Improve Healthspan. Chapman University, School of Pharmacy Seminar, Irvine, Ca

- *Rhodiola rosea*: A Novel Botanical Intervention to Increase Lifespan and Improve Health Span. University of Alaska at Anchorage
- Distance Learning Online Instructor Panel Discussion. University of California, Irvine
- *Rhodiola rosea*: A Novel Botanical Intervention to Increase Lifespan and Improve Healthspan. National University of Singapore, Singapore
- Dietary Supplements: Helpful or Hurtful? UCI CEO Round Table Women's Associate Forum. Irvine, Ca

## **2016**

- Healthspan Pharmacology. UCI 2016 Epidemiology Seminar Series. Irvine, Ca

## **2017**

- Healthspan Pharmacology: Healthspan Extension with *Rhodiola rosea*. Hong Kong University, School of Biological Sciences, Plant Evolution and Adaptation Seminar Series.

## **2018**

- The Impact of Botanical Extracts on Microbiome. Microbiome Initiative Monthly Meeting. University of California, Irvine

### **3. Additional Invited Speaker Activities (TEDx, Web Interviews, Webinars)**

## **2011**

- "What If"  
TEDxYouth Bommer Canyon  
<http://www.youtube.com/watch?v=BjOv6R0EHmw>
- "My Grandmother Never Took Dietary Supplements"  
TEDxChange Newport Coast  
<http://www.youtube.com/watch?v=lfLaD0AP4eE>
- Botanicals and the Pathways of Aging, Interview with The Science Network  
<http://thesciencenetwork.org/programs/the-science-studio/botanicals-and-the-pathways-of-aging>

## **2013**

- "Life101 for College Students"  
TEDx UCI, Irvine, CA  
<https://www.youtube.com/watch?v=GYP-MNrGD6w>
- An Interview with Mahtab Jafari  
In-Sight: Independent Interview Based Journal, November 15, 2013  
<https://in-sightjournal.com/2013/11/15/dr-mahtab-jafari-associate-professor-pharmaceutical-sciences-director-of-undergraduate-pharmaceutical-sciences-program-university-of-california-irvine/>

## **2015**

- Dietary Supplements: Helpful or Hurtful?  
A Wellness University Webinar, Irvine, CA

### **4. Selected Media Links**

Huffington Post. September 21, 2017. Mahtab Jafari: Reach for the Moon and Land on It.  
[https://www.huffingtonpost.com/entry/mahtab-jafari-reach-for-the-moon-and-land-on-it\\_us\\_59c3c03ae4b0c87def8835a3](https://www.huffingtonpost.com/entry/mahtab-jafari-reach-for-the-moon-and-land-on-it_us_59c3c03ae4b0c87def8835a3)

Wall Street Journal. March 9, 2016. [“Seeking Elixir of Life, A Scientist Studies Fruit Flies.”](#)

International Business Times. December 9, 2015. [“Drinking too much green tea might harm reproductive organs, decrease fertility.”](#)

89.3 KPCC. Southern California Public Radio. December 8, 2015. [“Can drinking too much green tea make you less fertile?”](#)

The NPR Loh Down on Science. May 4, 2015. “Curcumin for Humans”  
<http://www.scpr.org/programs/loh-down-on-science/2015/05/04/11490>

Smithsonian Magazine. SMARTNEWS. May 14, 2015. Alaska is growing a plant the Soviet military used in secret experiments; Golden Root or Rhodiola rosea  
[www.smithsonianmag.com/smart-news/alaska-growing-herb-soviet-military-used-secret-experiments](http://www.smithsonianmag.com/smart-news/alaska-growing-herb-soviet-military-used-secret-experiments).

Orange County Register. October 28, 2013. “Life Lessons”  
<http://www.ocregister.com/articles/fruit-535159-jafari-students.html>

Orange County Register. October 28, 2013. “Lab Testing Claims of Supplements”  
<http://www.ocregister.com/articles/fruit-535159-jafari-students.html>

Orange County Register. June 26, 2013. “Siberian Herb Extends Lives, UCI Researchers Say”  
[http://files.onset.freedom.com/ocregister/Focus/20130626\\_Focus.pdf](http://files.onset.freedom.com/ocregister/Focus/20130626_Focus.pdf)

Yahoo! Voices. July 5, 2013. Rhodiola rosea Furthers Lifespan of Fruit Flies by 24%  
<http://voices.yahoo.com/rhodiola-rosea-furthers-lifespan-fruit-flies-by-12208012.html?cat=5>

MSN News. July 2013. Scientists discover plants make flies live longer, Fad to follow  
<http://now.msn.com/rhodiola-increases-lifespan-of-fruit-flies-by-almost-a-quarter>

NBC Morning News Los Angeles, Ca. October 17, 2010. Researcher Says It is The Spice of Life  
Link to the UCI article “The Spice of Life”:  
[http://www.uci.edu/features/2010/10/feature\\_turmeric\\_101011.php](http://www.uci.edu/features/2010/10/feature_turmeric_101011.php)

LA TIMES article “Popular Spice May Prove Useful Beyond the Kitchen”:  
<http://losangeles.cbslocal.com/2010/10/17/curcumin-may-prove-useful-beyond-the-kitchen/>

OC Metro Business Magazine. March 2008 "20 Women to Watch in OC":  
[http://www.ocmetro.com/CoverStory\\_20\\_Women\\_to\\_Watch\\_success031308.aspx](http://www.ocmetro.com/CoverStory_20_Women_to_Watch_success031308.aspx)

Orange County Register. "Can you live to be 100?"  
<http://www.ocregister.com/news/jafari-aging-life-1946519-rhodiola-well>

UCI Website. "On a Quest for Longevity"  
[http://www.uci.edu/features/feature\\_jafari\\_090803.php](http://www.uci.edu/features/feature_jafari_090803.php)

Orange County Register Interview "The Skin You're In"  
<http://www2.ocregister.com/articles/the-skin-youre-859078-in>.

Wall Street Journal Interview "Can a caffeine-packed plant give a boost?"  
<http://online.wsj.com/article/SB10001424052748704299804575095581735183488.html>

## 5. Creative Activities

- 1998            Producer: Life and Work of Dr. Paul Brand: Compassionate Care; A documentary film based on an interview with Drs. Paul and Margaret Brand, Western University of Health Sciences, Pomona, CA.
- 1999-2000    Founder: Bioethics Nights, Western University of Health Sciences, Pomona, CA.

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### Original Publications

- 1) Jafari-Fesharaki M and Toy P. 1997. Effects and Cost of Subcutaneous Human Erythropoietin in Preoperative Patients. *Orthopedics*. 20(12):1159-1165.
- 2) Rosenberg H, Coffman R, Jafari-Fesharaki M, Prabhu S, and Tallian K. 1998. New Approach to Teaching Basic Science Courses: Biochemistry and Molecular Biology in the Course System of Curricular Design. *American Journal of Pharmacy Education*. (62):76-82.
- 3) Jafari-Fesharaki M and Scheinman M M. 1998. Adverse Effects of Amiodarone. *Pacing and Clinical Electrophysiology*. 21(1):1-13.
- 4) Patel R, Gray D, Pierce R, and Jafari M. 1999. Impact of Therapeutic Interchange from Pravastatin to Lovastatin in a Veterans Affairs Medical Center. *The American Journal of Managed Care*. 5(4).
- 5) Jafari-Fesharaki M. 1999. Teaching Pharmacy Students the Relevance of Spirituality in Patient Care. *American Journal of Pharmaceutical Education*. 7(2):7-14.
- 6) Dina R and Jafari M. 2000. Angiotensin II-Receptor Antagonists: An Overview. *American Journal of Health System Pharmacists*. 57:1231-1241.
- 7) Drmanac S, Heilborn D, Pullinger CR, Jafari M, Gretzen D, Ukrainczyk T, Cho MH, Frost PH, Siradez K, Drmanac R, Kane JP, and Malloy MJ. 2001. Elevated Baseline

- Triglyceride Levels Modulate Effects of HMGCoA Reductase Inhibitors on Plasma Lipoproteins. *Journal of Cardiovascular Pharmacology and Therapeutics*. 6(1):47-56.
- 8) Jafari M, Masih M, and Emerson J. 2001. The Value of Pharmacist Involvement in Point-of-Care Service, Walk-in Lipid Screening Program. *Pharmacotherapy*. 21(11):1403-1406.
  - 9) Baghkhani L and Jafari M. 2002. Cardiovascular Adverse Reactions Associated with Guarana: Is there a Causal Effect? *Journal of Herbal Pharmacotherapy*. 2(1):57-61.
  - 10) Emerson J and Jafari M. 2002. Dyslipidemia Prevalence in a Laboratory Initiated Screening Program. *Clinical Laboratory Science*. 15(2): 67-71.
  - 11) Jafari M, Leaf DA, MacRae H, Kasem J, O'Conner P, Pullinger C, Malloy M, and Kane JP. 2003. The Effects of Physical Exercise on Plasma Prebeta-1 High-Density Lipoprotein. *Metabolism*. 4(62):437-442.
  - 12) Jafari M, Ebrahimi R, Balian H, Ahmadi M, and Bashir M. 2003. Efficacy of Alternate-Day Dosing versus Daily Dosing of Atorvastatin. *Journal of Cardiovascular Pharmacology and Therapeutics*. 8(2):123-126.
  - 13) Bussel I, Afsarpour N, M. Jafari, and Rose M.R.. 2005. Incidence of ovarian abnormalities in *Drosophila melanogaster*. *Drosophila Information Service Journal*. 88:19-20.
  - 14) Green, M.W., Giordano, S., Jiang, P., Jafari, M., Smith, T.B., 2005. Effect of Divalproex on Metabolic Parameters is Dose Related in Migraine Prophylaxis. *Headache*. 45:1031-1037.
  - 15) Jafari, M. and Rose, M.R. 2006. Rules for the Use of Model Organisms in Anti-Aging Pharmacology. *Aging Cell*. 5:17-22.
  - 16) Jafari M, Long AD, Mueller LD and Rose MR.. 2006. Pharmacology of aging in *Drosophila*. *Current Drug Targets*. (7), 1479-1483.
  - 17) Mathieu, C. and Jafari, M. 2006 Immunomodulation by 1,25-dihydroxyvitamin D<sub>3</sub>: Therapeutic implications in autoimmunity and transplantation. *Clinical Nephrology*. 66(4): 275-283.
  - 18) Mahtab Jafari, Behnood Khodayari, Jeffrey Felgner, Irvin I. Bussel, Michael R. Rose, and Laurence D. Mueller. 2007 Pioglitazone: An Anti-Diabetic Compound with Anti-Aging Properties. *Biogerontology* 8:639-651.
  - 19) Mahtab Jafari, Jeffrey Felgner, Behnood Khodayari, Anthony Hutchili, Irvin I. Bussel, Concordia Vince-Cruz, Michael R. Rose, and Laurence D. Mueller. 2007 *Rhodiola*: A Promising Anti-Aging Chinese Herb. *Rejuvenation Research*. 10 (4): 1-16.
  - 20) Sepulveda S., P. Shojaeian, C. L. Rauser, M. Jafari, L. D. Mueller, M. R. Rose. 2008. Interactions between Injury, Stress, and Aging in *Drosophila melanogaster*. *Experimental Gerontology*. 43(3):136-45.
  - 21) Mahtab Jafari, Asghar Zarban, Steven Chang, and Thomas Wang. 2008 *Rosa damascena* decreases mortality in adult *Drosophila*. *Journal of Medicinal Foods*. 11 (1): 9-13.
  - 22) Bussel, I.I, Joseph, M., Lewis, V., Jafari, M. 2008 Caffeine supplementation increases mortality in female *Drosophila melanogaster* without reproductive or metabolic impairment. *Drosophila Information Services*. Volume 91. December 2008.
  - 23) Avanesian A, Khodayari B, Felgner J.S, Jafari M. 2009 Lamotrigine Extends Lifespan but Compromises Health Span in *Drosophila melanogaster*. *Biogerontology*. 11(1): 45-52.
  - 24) Samuel E Schriener, Agnesa Avanesian, Yanxia Liu, Hendrik Luesch, and Mahtab Jafari. 2009 Protection of human cultured cells against oxidative stress by *Rhodiola rosea* without activation of antioxidant defenses. *Free Radical Biology and Medicine*. 47: 577-584.
  - 25) Samuel E. Schriener, Ani Abrahamyan, Agnesa Avanesian, Irvin Bussel, Maral Gazarian, Marissa A. Holmbeck, and Mahtab Jafari. 2009 Decreased mitochondrial superoxide

- levels and enhanced protection against paraquat in *Drosophila melanogaster* supplemented with *Rhodiola rosea*. Free Radical Research. 43(9): 836-843
- 26) Agnesa Avanesian, Sahar Semnani and Mahtab Jafari. 2009 Can *Drosophila melanogaster* Represent a Model System for the Detection of Reproductive Adverse Drug Reactions? Drug Discovery Today. 14 (15/16): 761-766.
  - 27) Mahtab Jafari. 2010 *Drosophila Melanogaster* as a Model System for Evaluating Anti-aging Compounds. FLY 4 (3): 1-5
  - 28) Kyu-Sun Lee, Byung-Sup Lee, Sahar Semnani, Agnesa Avanesian, Se-Yoon Um, Hyun-Jin Jeon, Kwon Yu, Kyung-Jin Min\*, and Mahtab Jafari\* (\*equal contribution made by these authors). 2010 Curcumin Extends Lifespan, Improves Heal Span, and Modulate Aging Related Genes in *Drosophila Melanogaster*. Rejuvenation Research 13 (5): 1-10.
  - 29) Zhongbo Liu, Xuesen Li, Anne R. Simoneau, Mahtab Jafari, and Xiaolin Zi. 2011. *Rhodiola rosea* extracts and salidroside decrease the growth of bladder cancer cell lines via inhibition of the mTOR pathway and induction of autophagy. Molecular Carcinogenesis. April 22, 2011 (ePub)
  - 30) Schriener SE, Katoozi NS, Pham KQ, Garzarian M, Zarban A, Jafari M. 2012. Extension of *Drosophila* lifespan by *Rosa damascena* associated with an increased sensitivity to heat. *Biogerontology*. 13(2):105-117.
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