APERTURE

Hawaii Branch of the American Society for Microbiology | Fall 2017



HI-ASM

The Hawaii branch of the American Society for Microbiology (HI-ASM) brings together microbiologists from various island institutions such as universities, hospitals, government agencies, the military, and biotechnology companies. Our geographic location provides us with opportunities and challenges unique to our island state that emphasize the importance of a cohesive community of microbiologists.

MESSAGE FROM HI-ASM PRESIDENT DR. SLADJANA PRISIC

I would like to thank you for being a part of our small group of microbe enthusiasts. In particular, members of our Student Chapter always work hard to organize fantastic meetings and this year Lauren, Michellei, Endrei, and Payal volunteered to do this difficult job. I am extremely grateful for your effort! I am also thankful to the generous support from ASM, donors, and corporate sponsors. As you know, the Branch is focused on supporting students – we provide registration subsidies, travel, poster, and oral presentation awards. However, due to the budget cuts at ASM, our own budget has shrunk significantly and I encourage you to donate, if you can, so we can offer the same benefits we did in the past. Beyond monetary support, I would like to encourage all of you to be mentors and/or seek mentorship from others. Indeed, our meetings are perfect venues for mentor-mentee matchmaking and for initiating new collaborations. Let's continue using the power of our small, yet diverse group to advance our science and motivate our students to choose microbiology for their future career. At the end, if you are not a member of the HI ASM, please consider joining us. I am looking forward to seeing familiar and, hopefully, many new faces at our meetings!

MESSAGE FROM HI-ASM BRANCH COUNCILOR DR. PAUL FOX

ASM is the world's oldest and largest scientific organization. As such, the governing body was determined to be archaic and cumbersome, as it was built upon regional branches such as our own. For this reason, as you might be aware of, the organization of ASM has undergone a major change at the national level. National management and their consultants, convinced membership to approve a drastic change in the governance of ASM. This approval came with a change in the bylaws last year. This membership approved change in the Bylaws established a new "Council of Microbial Sciences" (COMS) in place of the old ASM Council. The new Council no longer has fiduciary responsibility for ASM, which is now in the hands of the new Board of Directors (BOD), a much smaller group consisting of the national officers and a few others voted in from the COMS. The new COMS is designed to be the "creative mind" of the Society that generates and deliberates on microbiology - related ideas, issues, and programs. It informs and advises the BOD on scientific opportunities, suggesting policies, actions, and programs to advance the microbial sciences. It seeks BOD approval for resources for scientific programmatic activities deemed a priority by the COMS. It identifies and makes recommendations to the BOD for discontinuation of scientific programs (unfortunately) seen as no longer essential in a time of budget cuts. It considers petitions to charter new Branches and Divisions. The makeup of the COMS is loosely similar to the old Council, consisting of one Councilor from each local branch of ASM, one Councilor from each ASM Division, and a few Councilorsat large. In addition, ASM has established eight "tracks" that correspond to different areas of interest within microbiology. These eight tracks are: Antimicrobial Agents and Resistance (AAR), Applied and Environmental Science (AES), Clinical Infections and Vaccines (CIV), Clinical and Public Health Microbiology (CPHM), Ecological and Evolutionary Science (EES), Host-Microbe Biology (HMB), Molecular Biology and Physiology (MBP), and Profession of Microbiology (POM). This makes it easier to find the presentations that are of interest to you at the national meeting and also to assign your presentation to an appropriate session at the meeting. For more information, or to sign up for the President's newsletter, please see the landing page for ASM's website: https://www.asm.org

MESSAGE FROM HI-ASM STUDENT CHAPTER PRESIDENT, LAUREN CHING

Thank you to everyone who attended the Spring meeting! We must give a special Mahalo to the previous student chapter officers, Alanna Tseng, Joanna Kettlewell and David Siemann for organizing a great Spring 2017 meeting. ASM is committed to advancing all microbial sciences at all levels. As the student chapter of the Hawai'i branch of ASM, we are excited to meet new members, provide a platform for students to share their research and hold social events. Our annual Fall meeting is quickly approaching and we look forward to having the students and faculty come together at the lush Treetops Manoa at the Manoa Waterfall for an engaging scientific meeting!





HI-ASM Branch Officers

- President: Sladjana Prisic, Ph.D.
- President-elect: Axel Lehrer, Ph.D.
- Secretary: Chih-Yun Lai, Ph.D.
- Treasurer: Mike Lieberman, Ph.D.
- Branch Councilor: Paul Fox, Ph.D.

HI-ASM Student Chapter Officers

- President: Lauren Ching
- Vice-President: Michellei Fisher
- Secretary: Endrei Mercantonio
- <u>Treasurer</u>: Payal Maharaj

Contact Us

c/o Dr. Chih-Yun Lai 651 Ilalo Street BSB 320 Honolulu, HI, 96813

hawaii.ASM@gmail.com (808) 692-1630

MEMBERSHIP

HI-ASM Branch Membership

HI-ASM membership must be paid in full to be eligible to get the subsidized registration rate. You can apply or renew your branch membership via the Fall Meeting Registration Form or the online ASM eStore (see below).

Apply or Renew Memberships Online

Now you have the option to apply or renew your national and HI-ASM memberships through the ASM website, www.asm.org, by selecting "Membership," "Join ASM and Subscriptions" or "Purchase a US Branch Membership."

SPECIAL ACKNOWLEDGEMENTS

HI-ASM Special Patrons, Sustaining, and Contributing Members 2014-2017

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(\$25-\$49)

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(\$50-199)

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Dr. John Berestecky
Dr. David Carter
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2017 ANNUAL FALL MEETING AND LECTURE

Sponsored by the American Society for Microbiology Branch Lectureships Program

"AGING AND IMMUNE
FUNCTION: FROM MOLECULAR
MECHANISMS TO
INTERVENTIONS"
ILHEM MESSAOUDI POWERS, PH.D.

ASM DISTINGUISHED LECTURER

ASSOCIATE PROFESSOR,
DEPARTMENT OF MOLECULAR BIOLOGY AND BIOCHEMISTRY,
UNIVERSITY OF CALIFORNIA, IRVINE



Lecturer's Biographical Sketch

Dr. Ilhem Messaoudi is an Associate Professor in the Department of Molecular Biology and Biochemistry at the University of California, Irvine and an Affiliate Scientist at the Oregon National Primate Research Center. She received her B.Sc. in Biochemistry from Lafayette College (Easton, Pennsylvania) in 1996, followed by a joint doctorate degree in immunology from The Weill Graduate School of Medical Sciences of Cornell University and Memorial Sloan Kettering Cancer Center in 2001. She then carried out her post-doctoral training at Oregon Health and Science University (OHSU) and Oregon National Primate Research Center. Dr. Messaoudi became an Assistant Professor at the Vaccine and Gene Therapy Institute, OHSU in October 2008, and in January 2013 joined the University of California, Riverside School of Medicine as an Associate Professor. Her research program is focused on studying: 1) host-pathogen interactions in a variety of viral infection models; 2) impact of chronic ethanol consumption on immune function; 3) impact of maternal obesity and nutrition on neonatal immunity; and 4) impact of age-related decline in sex steroid levels (and estrogen and androgen supplementation) on immunity. Dr. Messaoudi is the recipient of the Nathan Shock Junior Investigator Award, Brookdale Leadership in Aging Fellowship, Dolph O' Adams Award and Women and Diversity Paper of the Year from the Society of Leukocyte Biology.

*The 2016 fall HI-ASM meeting is co-sponsored by ASCLS-Hawaii.

ASCLS-Hawaii (American Society for Clinical Laboratory Science-Hawaii) is an approved provider of continuing education programs in clinical laboratory science through the ASCLS P.A.C.E. program.

The listed course is approved for **1.0 PACE contact hours** for CA licensed clinical laboratory scientists and personnel.

Program objectives: I. Describe the hallmarks of immune senescence; 2. Explain why older individuals are more susceptible to infection; 3. Describe the impact of caloric restriction on immune senescence; 4. Explain the impact of menopause and andropause on immunity.

Instructional level: Intermediate



2017 ANNUAL FALL MEETING AND LECTURE



Agenda

Registration: 12:00 - 12:30 pm

Lunch: 12:30 - 1:30 pm

Introduction: 1:30 - 1:45 pm

Lecture: 1:45 - 2:45 pm

Business Meeting: 2:45 - 3:00 pm



Treetops Manoa 3737 Manoa Rd At the Manoa Waterfall Honolulu, HI 96822 (808) 988-6839

Menu

Waimanalo Baby Greens with Hau'ula Tomatoes, Local Veg, Toasted Macadamia, Sesame Ginger and Dijon Papaya Seed Dressings

Tropical Fruit Salad with Mango-Mint Dressing

Hawaiian Sweet Bread Rolls with Whipped Mango-Honey Butter

House Made Ulu, Taro, and Okinawan Sweet Potato Chips

Sweet Lemongrass Hoisin Braised Short Ribs with Pineapple Demi-Glace

5-Spice and Honey Soy Marinated Chicken, Lemongrass Peanut Sauce

Pan Seared Garlic Prawns with Tomato Lemon Coconut Butter

Stuffed Vine Ripened Tomatoes with Wild Rice and Seasoned Vegetables

Braised Oxtail and Kim Chee Fried Rice with Local Veg

House Made Char-Siu Chow Mein, Fresh Hong-Style Noodle, Local Veg

Browned Garlic Vegetable du Jour, Ginger Soy Marinated Baby Bok Choi

Steamed White Rice



Please register for the fall meeting by filling out the registration form (next page) OR the **online** event registration (\$1.00) fee:

https://HawaiiASM.eventbee.com/event?eid=198757074



2017 HI-ASM FALL MEETING REGISTRATION FORM

HI-ASM 2017 Annual Fall Meeting Saturday December 2nd 2017, 12-3pm, Treetops Manoa

•	_	_		
Full Name with Title:				
Address 1:				
Address 2:				
City, State, Zip:				
Phone:				
Email:				
Faculty Staff/ Non-Students with HI-ASM/ ASCLS Membership	;	\$41		
Students with HI-ASM/ ASCLS Membership		\$20		
Non-Members		\$56		
Hawaii branch of the American Society for Mi Regular Member		nbership for Fall \$15	2017 to Spring 2018	
Student Member		\$6		
Contributing Member	\$25+	\$		
Sustaining Member	\$50+	\$		
Total Payment (Including meeting partici	pation fee and m	nembership)	\$	
Application or Renewal:				
Drop Off To:	Mail To:	Mail To:		
Deborah Morito	Dr. Mika li	Dr. Mike Lieberman 1052 Ala Nanu, Apt #304 Honolulu, HI 96818		
Department of Microbiology 2536 McCarthy Mall, Snyder Hall 207	1052 Ala N	anu, Apt #304		

Please drop off or mail the completed registration form with payment to the following and make checks payable to **Hawaii Branch of ASM**





American Society for Microbiology Hawaii Branch

2017 Annual Fall Meeting Lecture

"Aging and Immune Function: from molecular mechanisms to intervention"

Ilhem Messaoudi Powers, Ph.D.

Associate Professor,
Department of Molecular Biology and Biochemistry,
University of California, Irvine



Thanks to a dramatic increase in life expectancy, the number of individuals aged 65 and older is rapidly increasing. This presents considerable challenges to our health care system since increasing age is associated with a higher susceptibility to infectious diseases due to the decline in immune fitness, dubbed "immune senescence". The mechanisms underlying age-associated dysregulated immunity are still incompletely understood. Advancement in our comprehension of mechanisms of immune senescence and development of interventions to improve health span requires animal models that closely recapitulate the physiological changes that occur with aging in humans. Nonhuman primates (NHPs) are invaluable preclinical models to study the pathophysiology of aging due to their outbred nature, high degree of genetic and physiological similarity to humans, and their susceptibility to human pathogens. In this presentation, I will review the utility of NHPs in characterizing immune senescence, evaluating interventions to reverse aging of the immune system and development of vaccine strategies that are better suited for this vulnerable population.

*The ASM-HI 2017 Fall Meeting is co-sponsored by ASCLS-Hawaii (American Society for Clinical Laboratory Science-Hawaii) is an approved provider of continuing education programs in clinical laboratory science through the ASCLS P.A.C.E. program. The listed course is approved for 1.0 PACE contact hours for CA licensed clinical laboratory scientists and personnel.

Program objectives: I. Describe the hallmarks of immune senescence; 2. Explain why older individuals are more susceptible to infection; 3. Describe the impact of caloric restriction on immune senescence; 4. Explain the impact of menopause and andropause on immunity.

Agenda

 Registration:
 12:00 - 12:30

 Lunch:
 12:30 - 1:30

 Introduction:
 1:30 - 1:45 pm

 Lecture:
 1:45 - 2:45 pm

 Business
 2:45 - 3:00 pm

Treetops Manoa (Wailele Manoa) 3737 Manoa Rd at the Manoa Waterfall, Honolulu, HI 96822 Saturday, December 2, 2017 12-3pm

WAILELE @ MANOA





Early Online Registration currently available at: https://HawaiiASM.eventbee.com/event?eid=198757074

For more information please contact: Lauren Ching, ASM-HI Student Chapter President Phone 808-692-1656, Email: laurenlc@hawaii.edu