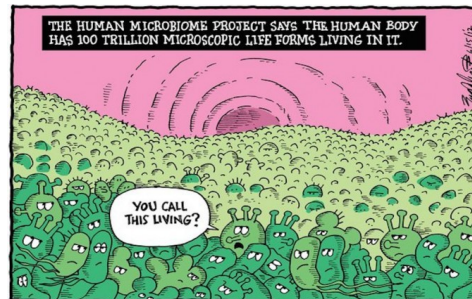
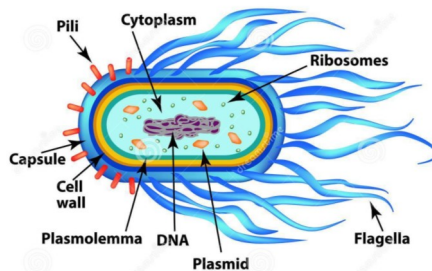




NORTHERN CALIFORNIA
AMERICAN SOCIETY FOR MICROBIOLOGY

**36th Annual Spring Meeting
MARCH 8th & 9th, 2019**

MICROBE HEROES AND VILLAINS



THE CEU COURSE NUMBERS FOR THIS MEETING ARE 19-001 THROUGH 19-007



PLEASE SUPPORT OUR SUSTAINING MEMBERS
Their support helps bring you this meeting!

PLATINUM

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Online registration available at:
<https://registration.ncasmbranch.org>



36th Annual NCASM Meeting March 8th & 9th, 2019

PREREGISTRATION DEADLINE –online by noon on **3/6/2019**; mail-in postmarked by **3/2/2019**

****Meeting Location****

DoubleTree by Hilton Hotel, Pleasanton @ the Club—Pleasanton, CA

7050 Johnson Dr.

Pleasanton, CA 94588

At the intersection of I-580 & I-680

The hotel is stylishly renovated, including the rooms. Special meeting room rate: from \$116.00

Please use the following website for reserving rooms:

https://doubletree.hilton.com/en/dt/groups/personalized/P/PLEPCDT-ASM-20190307/index.jhtml?WT.mc_id=POG

***** Rate cut-off Feb. 14th, 2019 *****

Directions to the Doubletree by Hilton, Pleasanton @ the Club:

From SF:

Take I-80 East to the Bay Bridge / Oakland to I-580 East (towards the I-580/CA24 split). Continue on I-580E, exit at Hopyard Rd. Turn right onto Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Drive.

From the Peninsula:

Take US-101 to the San Mateo Bridge I-92. Take I-92 East to I-880 North. Continue on I-880 N to CA-238 (exit 31A). Follow ramp onto CA-238 towards Castro Valley/Stockton. Merge onto I-580 East, continue to the Hopyard Rd. exit. Turn right on to Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Drive.

From the South Bay:

Take I-880 North to exit 12A (Mission Blvd). Continue towards I-680N (to Sacramento). Continue on I-680N to exit 29 (Stoneridge Dr. 16 miles). Exit at Stoneridge, Take a right at bottom of ramp. Driving right on Stoneridge, take the first left onto Johnson Dr. The hotel is in the curve of Johnson Drive.

From the North Bay:

Take US-101 to I-580 East. Take the I-580E to the Richmond-San Rafael Bridge. Cross the bridge and follow the sign reading "I-580 E to Downtown Oakland / Hayward / Stockton", continuing on I-580E; exit at the Hopyard Rd. exit. Turn right on to Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Drive.

From the East Bay:

The Conference site is located at the intersection of I-580 and I-680 on the opposite side of 680 from Stoneridge Mall. Exit 580 at the Hopyard Rd. exit. Turn right onto Hopyard Rd. Turn right at Owens Dr. Take the second right onto Johnson Dr. The hotel is in the curve of Johnson Drive.

★SESSION 1: Innovations in Clinical Microbiology

Location: *Wimbleton Ballroom*

Convener: *Elizabeth Joyce, PhD — UC San Francisco, San Francisco, CA*

Welcome and Announcements

8:25 - 8:30

Corporate Sponsored Lecture — Copan Diagnostics

8:30 - 9:20

Liquid Based Microbiology: Simplify Sample Collection and Transport

Susan Sharp, PhD, D(ABMM) — Copan Diagnostics, Murrieta, CA

What is involved with liquid-based microbiological analysis? How do you assure timely transport while maintaining sample integrity? Dr. Sharp will discuss what is currently available as well as present upcoming innovations.

9:20 - 10:10 Break - Coffee and Tea in the Exhibit Hall — Olympic Ballroom

Culture Independent Diagnostic Tests for Gastroenteritis

Mir Noorbash, PhD, D(ABMM) — Sutter Shared Laboratory, Livermore, CA

CIDTs capitalize on the latest in molecular technologies to provide rapid and comprehensive approaches to infectious disease diagnosis. Join Dr. Noorbash to review guidelines and recommendations for how to effectively and responsibly use this wealth of information.

11:00 - 11:50 Anaerobic Antimicrobial Susceptibility Testing

Darce Carpenter, PhD, CIC — International Health Management Associates, Schaumburg, IL

Best practices in antimicrobial susceptibility testing require careful consideration of available data. With anaerobes this challenge is greater as information is available from many fewer sources. Join Dr. Carpenter to hear an expert's perspective!

★SESSION 3: Clinical Microbiology Updates

Location: *Wimbleton Ballroom*

Convener: *Mir Noorbash, PhD, D(ABMM) — Sutter Shared Laboratory, Livermore, CA*

1:40 - 2:30

Virulent vs Dormant Lifestyle of Pathogens: Biofilm Formation in Vivo

Linda Kenney, PhD — University of Chicago, Chicago, IL and National University of Singapore

As the world has changed, we humans have adapted to many different climates, latitudes and altitudes. As big as our brains are, we are not unique in this trait. The more we learn of the bacterial world, the more versatile it turns out to be. Join Dr. Kenney for a tale of feast or famine!

PRESENTATION SPONSORED by the ASM BRANCH LECTURES/SHIPS PROGRAM

2:30 - 3:20

Break - Refreshment in the Exhibit Hall — Olympic Ballroom

3:20 - 4:10

Current Issues with Syphilis

Roselyn Plotzker, MD, MPH — UC San Francisco and Prevention Training Center, Oakland, CA

In recent years, the incidence of STIs has been on the rise. Do we have new approaches to combat this this age-old foe? Join Dr. Plotzker for an update on syphilis epidemiology, treatment and prevention tactics.

4:10 - 5:00

Corporate Sponsored Lecture — Medical Chemical Corporation

Update on Blood Parasites | *Lynne Garcia, MS, F(AAM) — LSG & Associates, Santa Monica, CA*

Come one, come all for a comprehensive update on all five malarial species affecting humans, plus highlights from other medically important bloodborne pathogens. Though not very common in the US, these blood parasites remain a significant source of morbidity worldwide.

SESSION 2: The Human Microbiome

Location: *The Masters Salon*

Convener: *Rick Danielson, PhD — Biovir, Benicia, CA*

Welcome and Announcements

8:25 - 8:30

It is All About the Sample: Sample Quality and Methods are Essential for Valid

Microbiome Data | *Reul Cano, PhD — The BioCollective, Denver, CO*

New technologies are opening fascinating windows into the workings of the human microbiome. What cannot be forgotten are age-old quality assurance practices well known to clinical microbiologists. Dr. Cano will clue us in on quality aspects of microbiome testing.

9:20 - 10:10 Break - Coffee and Tea in the Exhibit Hall — Olympic Ballroom

10:10 - 11:00 Microbiome-based therapeutics: how close are we?

Embrlette Hyde, PhD — SynBioBeta, Pleasant Hill, CA

The future is now! It may sound like science fiction, of approaching human diseases by understanding and modulating our microbiomes is closer than you think. What exactly does this approach involve? What are its potentials? Join Dr. Hyde to get up to speed..

11:00 - 11:50 The Gut Microbiome and Allergies

Susan Lynch, PhD — UC San Francisco, San Francisco, CA

In the age of microbiome analysis, "you are what you eat" has taken on an entirely new facet. Dr. Lynch's research explores the connections between our gut-dwelling microflora and our immune system, specifically the development of allergies. Prepare to be amazed!

LUNCH — EXHIBIT HALL, Olympic Ballroom 11:50 - 1:40 PM

★SESSION 4: New Frontiers in Microbiology Research

Location: *The Masters Salon*

Convener: *Dan Mills, PhD — Retired, Past NCASM President '89-91 & '03-05*

1:40 - 2:30

WGS Utilization in Foodborne Outbreak Investigation

Rituparna Mukhopadhyay, PhD, PHM — CA Dept of Public Health, Richmond, CA

Now showing at a public health lab near you, the "Amazing NextGen Sequencing Machine." Able to "leap" genomes in a single day, NGS technologies permit detailed analysis of linkages in foodborne outbreaks. Join Dr. Mukhopadhyay to explore this new frontier in lab testing.

2:30 - 3:20

Break - Refreshment in the Exhibit Hall — Olympic Ballroom

3:20 - 4:10

Phage Against the Machine: Unraveling the molecular arms race between a phage and an anti-phage island | *Amelia McKitterick, PhD — UC Berkeley, Berkeley, CA*

Vibrio cholerae has wrought devastating destruction to vulnerable human communities, most recently in several African countries. But did you know that the bacterium itself is under attack from within? Gather round to hear this tale of gene to gene combat by age-old foes.

4:10 - 5:00

Ecology and Biology of Arsenic-Transforming Microbes

Chad Saitlikov, PhD — UC Santa Cruz, Santa Cruz, CA

As microbiologists, we know that the metabolic diversity of bacteria is the stuff of legends. In the case of arsenic-contaminated bodies of water such as Mono Lake, what role are the resident bacteria playing, that of friend or foe? Dr. Saitlikov will unmask this process in detail!

★★ SATURDAY — MARCH 9 ★ REGISTRATION and
Olympic Ballroom Lobby

Continental Breakfast Sponsored by Cepheid ★7:00 AM★

★SESSION 5: Clinical Microbiology

Location: *Wimbledon Ballroom*

Convener: *Elizabeth Antaki-Zukowski, MS, PhD — Jackson Lab, Sacramento, CA*

7:55 - 8:00 Welcome and Announcements

8:00 - 8:50 **Corporate Sponsored Lecture — Cepheid**

Antimicrobial Stewardship using Molecular Diagnostics

Daniel Barbaro, MD — Texas Health Resources, Fort Worth, TX

Antibiotics are indeed miracle drugs. But with great power comes great responsibility. Dr. Barbaro will discuss the best approach to the most ethical and efficient uses of these wonder drugs via carefully designed antimicrobial stewardship.

8:50 - 9:50 **Break - Coffee and Tea in the Exhibit Hall — Olympic Ballroom**

9:50 - 10:40 **Current Topics in HIV Diagnostics**

Mark Pandori, PhD, HCLD(ABB) — Alameda Co Public Health Lab and UC San Francisco
Rapid and non-invasive testing for HIV antibodies enables more effective and efficient public health interventions. Join Dr. Pandori to hear about exciting new options for combating this insidious virus.

10:40 - 11:30

Promotion of the Clinical Microbiology Laboratory to Patients and the General Public

Alan Wu, PhD — UC San Francisco, San Francisco, CA

Us old-timers have seen many changes impact the clinical lab over the years, forces from within and from without. Even so, our core mission remains much the same. Join Dr. Wu to explore the changing landscape and how we explain our 'raison d'être' to a wider audience.

★SESSION 6: Captivate (not blind!) your audience with science: Storytelling for job interviews and networking

Location: *The Masters Salon*

Facilitators *Dennis F. Mangano, PhD, Chalk Talk Science, Santa Rosa, CA*
and *Wendy J. Wilson, PhD, Las Positas College, Livermore, CA*

You know your science. Learn how to communicate it effectively! This session will be broken down into two parts. In the first part we will introduce the fundamentals of message design, connecting with an audience, and storytelling. In the second part, we will work in breakout groups of 4-6 where each participant tells their story in 4-7 minutes. You will then boil down the story into essential words and coordinating gestures and movements for maximum audience impact, telling the same story in just 2-3 minutes!

This session will show you how a story changes and improves with each telling. You will learn storytelling, improv and evaluation techniques as well as time management skills. You will discover how stories explain science in an interesting, informative and entertaining way, and are both fun for the teller as well as the listener!

7:55 - 8:00 **Welcome and Announcements**

8:00 - 8:50 Part One

8:50 - 9:50 **Break - Coffee and Tea in the Exhibit Hall — Olympic Ballroom**

9:50 - 11:30 Part Two



Session 6 is our Student Session, sponsored by the American Society for Microbiology.



★SESSION 7: Plenary Session

Location: *Olympic Ballroom*

Convener: *Hamida Nusrat, PhD, PHM — NCASM President 2017-2019*

1:30 - 2:20

Salmonella Pathogenesis vs. Tumor Regression

Linda Kenney, PhD — University of Chicago, Chicago, IL and National University of Singapore

To good to be true? To amazing to believe? Join Dr. Kenney for an exploration of how some of our most versatile pathogens can be used to combat one of our deadliest foes.

PRESENTATION SPONSORED by the ASM BRANCH LECTURESHIPS PROGRAM

2:20 - 3:10

The Flint Legionnaires' Disease Outbreak

Michele Swanson, PhD — University of Michigan, Ann Arbor, MI

Potable drinking water is one of public health's greatest triumphs. However, the tap is not the only source of infectious disease hitching an aquatic ride. Move over Aquaman, Dr. Swanson will explain and unmask this water-dwelling menace!

Dr. Swanson is the current ASM President, PRESENTATION SPONSORED by the American Society for Microbiology

3:10 - 4:00

Corporate Sponsored Lecture — Medical Chemical Corporation

Free-Living Amoeba

Lynne Garcia, MS, F(AAM) — LSG and Associates, Santa Monica, CA

Though not dependent on an animal host for survival, free-living amoebae are nonetheless some of the deadliest pathogens known. Join Ms. Garcia for an review of these wolves in sheep's clothing!

★★ LUNCH and NCASM Business Meeting 11:40 - 1:30 ★★

GENERAL INFORMATION

Full Registration

Includes all sessions for both days, exhibits, refreshments, and all food and beverage functions provided by NCASM throughout the entire meeting.

Single Day Registration

Includes sessions, exhibits, refreshments, and all food and beverage functions provided by NCASM for the day of registration.

Student Registration (Full-Time Students Only)

Includes sessions, exhibits, refreshments, and all food and beverage functions provided by NCASM for the time attending. Students MUST be able to show a valid STUDENT I.D. CARD.

Transportation & Parking

The Hilton Doubletree offers free parking. Overflow parking is available behind the hotel. The hotel is 1 mile from the Dublin BART station, and there is a free hotel shuttle for overnight guests.

Membership

NCASM membership runs from January 1 to December 31 of each year. Membership is \$25.00 a year and student membership is \$5.00 a year. Membership in NCASM gives you a network within the microbiology community. As a member you will receive notification of two general meetings a year, **free** CEUs at NCASM meetings, and information regarding regional meetings and events in your area.

Exhibits

Take the opportunity to visit with the companies that provide products and services to your laboratory. Exhibits are open during all the breaks, Friday at lunch and during the Friday evening Reception.

Americans with Disabilities Act (ADA)

To comply with ADA requirements, NCASM and the Hilton Doubletree will make every effort to provide for the participant's comfort and convenience.

NCASM Poster Session

NCASM will be hosting a poster session at this meeting. Microbiology—themed posters can be presented during this session. For further information, contact Janice Hamer at: posters@ncasm.org

Continuing Education

NCASM is an approved provider and accrediting agency (accreditation #0044) for the California Laboratory Continuing Education. All NCASM Spring Meeting sessions qualify for 3 continuing education units (3 contact hours). CEU Certificates of Attendance will be available on-site at the **END of each day.**

Instructions for Receiving CEU:

1. Evaluation forms will be distributed to those participants requesting CEUs in each session during the **first 10 minutes only.** Only **one** CEU evaluation form will be given for concurrent sessions. After the first 10 minutes, participants must pick up a CEU evaluation form at the CEU desk. **Participants who arrive after the first 10 minutes of a presentation are not eligible to receive CEU credits for the lecture.**
2. You may attend talks in either concurrent session, but must **complete an evaluation** form for each presentation attended. Each talk is one (1) contact hour. There are three (3) contact hours in each session.
3. You must submit the following to the CEU booth at the **completion of your total attendance** at the meeting:
 - a. A completed evaluation form from all of the attended sessions.
 - b. Your name tag to verify your paid attendance.
4. You will receive a CEU certificate after personally signing the roster at the CEU booth.
5. Only one (1) CEU certificate will be issued to each participant.

***** No certificates will be mailed. *****

Location of the CEU Booth will be announced at the beginning of each session.

REMEMBER:

- * YOU MUST OBTAIN AN EVALUATION FORM FOR EACH SESSION YOU ATTEND.
- * CEUs WILL **ONLY** BE GIVEN IN PERSON.
- * NO CERTIFICATES WILL BE MAILED.
- * CEUs WILL ONLY BE ISSUED DURING CEU DESK HOURS.
- * YOU MUST SIGN THE CEU ROSTER.

Online registration available at:

<https://registration.ncasmbranch.org>

REGISTRATION FORM

Name _____

Employer/Affiliation _____

Mailing Address _____
 ___ Business _____
 ___ Home _____

Telephone (H) _____ (W) _____

Email Address _____ All NCASM correspondence is via email

36th Annual NCASM Meeting Microbe Heroes and Villains March 8 & 9, 2019

(CIRCLE ONLY ONE AMOUNT BELOW and ENTER AMOUNT ON LINE "A")

	Member (Paid-to-date)	Professional Non-Members	Student* Members (includes NCASM membership)
Both Days	<input type="checkbox"/> \$180	<input type="checkbox"/> \$270	<input type="checkbox"/> \$60
Friday Only	<input type="checkbox"/> \$120	<input type="checkbox"/> \$175	<input type="checkbox"/> \$45
Saturday Only	<input type="checkbox"/> \$120	<input type="checkbox"/> \$175	<input type="checkbox"/> \$45

* Students must submit a copy of a Valid Student I.D. Card with registration form.

Line A \$ _____
Late Fee (postmark after **March 2nd**) Add \$20 \$ _____
 Non-NCASM Members CEU Fee Add \$25 \$ _____

NCASM Membership (January - December 2019).....Regular \$25 \$ _____

Total \$ _____

ONLINE REGISTRATION NOW AVAILABLE —PLEASE SEE OUR WEBSITE FOR DETAILS:
<https://registration.ncasmbranch.org>

I AM A MEMBER OF ASM (CIRCLE ONE) Y / N

ASM NO. _____

Make Checks payable to NCASM
 see CEU information on page five of this program

LFS ID (for CEU credit) _____

Mail form and checks to:

NCASM Secretary
 Jessica Ito
 543 18th Avenue
 San Francisco, CA 94121

EMPLOYMENT/DISCIPLINE:

- ACADEMIA INDUSTRY
 CLINICAL
 PUBLIC HEALTH
 OTHER (SPECIFY) _____

For Registration Information, contact:

Jessica Ito, CLS
 E-mail: jessicaito.ncasm@gmail.com

I WOULD LIKE TO HELP ON AN NCASM COMMITTEE:

- WEBSITE SCIENCE/EDUCATION
 PROGRAM AWARDS
 UNDERGRAD STUDENT CHAPTERS