

Saturday, March 16, 2019
Venetian/Sands Expo
Room 3301
8:00 am – 12:45 pm



Musculoskeletal Infection Society

Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Musculoskeletal Infection Society.

The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of **4.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Objectives

Upon completion of this activity, physicians will be able to:

- Describe the mechanisms of biofilm formation and current techniques for inhibition.
- Understand the risk of musculoskeletal infections in tumor prosthesis and potential opportunities for management.
- Comprehend current techniques for diagnosis and treatment for vertebral osteomyelitis.

8:00 am – 8:05 am	Welcome, Disclosures – <i>Carlos A. Higuera-Rueda, MD, Program Chair</i>
8:05 am – 9:15 am	Session I Best Research Presentations – Clinical Practice: Prevention, Diagnosis and Treatment of PJI Moderators: Thorsten Seyler, MD, Sandra B. Nelson, MD
8:05 am – 8:13 am	Perioperative Antibiotic Prophylaxis in Total Joint Arthroplasty: A Single Dose is as effective as Multiple Doses – <i>Timothy L. Tan, MD</i>
8:14 am – 8:22 am	Single vs Multiple Doses of Prophylactic Antibiotics in Orthopaedic Surgery: A Meta-Analysis – <i>Sean Ryan, MD</i>
8:23 am – 8:31 am	Intraoperative Prophylactic Techniques for the Prevention of Periprosthetic Joint Infection in Primary Total Joint Arthroplasty: A Systematic Review and Meta-Analysis – <i>Kyle Cichos, MD</i>
8:32 am – 8:40 am	Discussion
8:41 am – 8:49 am	An Enhanced Understanding of Culture-negative Periprosthetic Joint Infection with Next Generation Sequencing – <i>Karan Goswami, MD</i>

8:50 am – 8:58 am	Diagnostic Accuracy of the Alpha-defensin for Periprosthetic Joint Infection in Patients with Inflammatory Diseases – <i>Carlos A. Higuera-Rueda, MD</i>
8:59 am – 9:07 am	Changing Trends, Risk Factors, and Treatment Challenges in Staphylococcus aureus Septic Arthritis – <i>Kenneth L. Urish, MD, PhD</i>
9:08 am – 9:15 am	Discussion
9:15 am – 10:00 am	Session II Symposium: Vertebral Osteomyelitis – New Trends on Diagnostic and Treatment
9:15 am – 10:00 am	Moderator: <i>Steven Schmitt, MD</i> Speakers: <i>Paul Huddleston MD, Hollis Potter, MD</i>
10:00 am – 10:10 am	Break
10:10 am – 11:10 am	Session III Best Research Presentations – Basic Science – From Origins of Infection to Potential Prevention and Treatments Moderators: Antonia F. Chen, MD, MBA, Angela L. Hewlett, MD
10:10 am – 10:18 am	The Osteocyte as a Target Cell and Disease Nidus in Periprosthetic Joint Infection – <i>Professor Gerald J. Atkins</i>
10:19 am – 10:27 am	Polymyxin and Bacitracin in the Irrigation Solution: There is no role for this practice – <i>Javad Parvizi, MD</i>
10:28 am – 10:36 am	Zoledronic acid increases bacterial burden and infection rate in a validated mouse model of implant infection – <i>Zachary Burke, MD</i>
10:37 am – 10:45 am	Discussion
10:46 am – 10:54 am	In vivo bioluminescence imaging in a rabbit model of orthopedic implant-associated infection to monitor efficacy of an antibiotic-releasing coating – <i>John M. Thompson, MD</i>
10:55 am – 11:03 am	Toward Translational Treatments for the Infected Implant: A Novel Mouse Model of Revision Arthroplasty for PJI – <i>Zachary Burke, MD</i>
11:04 am – 11:10 am	Discussion

11:10 am – 11:45 am **Session IV Symposium: Strategies to Prevent and Treat Infections in Tumor Prosthesis**

11:10 am – 11:45 am **Moderator:** *Carlos A. Higuera-Rueda, MD*
Speakers: *Barry Brause, MD, Richard O'Donnell, MD*

11:45 am – 12:45 pm **Session V Understanding Biofilm – An Update on Formation, Prevention and Treatment**

11:45 am – 12:45 pm **Moderator:** *Alex McLaren, MD*
Speakers: *Paul Stoodley, PhD, Kohei Nishitani, MD, PhD*

12:45 pm Adjourn. Lunch on Own, Free Afternoon to attend other Specialty Day meetings

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Exhibit Schedule

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