

Morning Session, Thursday, September 19, 2024

OSTEOPOROSIS AND BONE REPAIR

Session Chairpersons:

Ted Mikuls, MD, MSPH, Stokes-Shackleford Professor of Rheumatology, Division of Rheumatology and Immunology, Department of Internal Medicine, College of Medicine, UNMC

Laura Bilek, PT, PhD, Professor, Associate Dean for Research, College of Allied Health Professions, UNMC

7:30-8:00 a.m.	Check-in and Breakfast
8:00-8:10	Welcome and Introduction of the Symposium Aaron Mohs, PhD, Associate Dean for Research, College of Pharmacy, UNMC Dong Wang, PhD, Professor of Pharmaceutical Sciences, UNMC. Co-organizer of BRDS 2024
8:10-8:55	Therapeutic Adventures and Misadventures in Osteoporosis Drug Development: Why is There so Much Unmet Need? Kenneth Saag, MD, MSc, Professor, <i>Anna Lois Waters</i> Endowed Chair, Division Clinical Immunology and Rheumatology, Department of Medicine, The University of Alabama at Birmingham.
8:55-9:40	Wnt Signaling and New Drug Discovery for Bone Diseases Hua Zhu (David) Ke, MD, Founder and CEO, Angitia Biopharmaceuticals
9:45-10:30	Tanshinones as Ectosteric Inhibitors: Their Dual Activity as Anti-resorptive and Anti-inflammatory Drugs Dieter Brömme, PhD, Professor, Oral and Biological Sciences, Canada Research Chair in Proteases and Diseases, University of British Columbia
10:30-10:40	Break
10:40-11:25	Electrospun Nanofibers as Drug Carriers for Inhibiting Heterogeneous Ossification

	Jingwei Xi, PhD, Professor, <i>Mary & Dick Holland</i> Regenerative Medicine Program, Division of Transplant Surgery, Department of Surgery, UNMC
11:25-11:45	Case Report from the OR Sarah Putnam, MD, Assistant Professor, Vice Chair of Diversity, Department Orthopaedics Surgery and Rehabilitation, UNMC
11:45-12:00	Group Photo at Ice Rink
12:00-1:00	Lunch Break
Afternoon Session, Thursday, September 19, 2024	
ORTHOPAEDIC IMPLANT, INFECTION	
Session Chairpersons:	
Hani Harder , PhD, Professor, Director, Orthopaedic Biomechanics and Advanced Surgical Technologies Laboratory, Department of Orthopaedic Surgery and Rehabilitation, UNMC	
Tammy Kielian , PhD, <i>Choudari Kommineni</i> , DVM, Professor of Pathology Department of Pathology, Microbiology and Immunology, UNMC	
1:00-1:45	Engineering Joint Replacement Bearing Surfaces Ebru Oral, PhD, Associate Professor of Orthopedic Surgery, Harvard Medical School
1:45-2:30	Host-pathogen interactions during <i>Staphylococcus aureus</i> osteomyelitis: From model systems to new treatment strategies James Cassat, MD, PhD, Associate Professor of Pediatrics, Biomedical Engineering, Pathology, Microbiology and Immunology, Division of Infectious Diseases, Vanderbilt University
2:30-3:15	The Antimicrobial Potential of Self-Assembling Peptide Amphiphiles Martin Conda-Sheridan, PhD, Associate Professor of Pharmaceutical Sciences, UNMC. Co-organizer of BRDS 2024.
3:15-3:25	Break
3:25-4:10	Immune-mediated approaches to treat <i>Staphylococcus aureus</i> prosthetic joint infection

	Tammy Kielian, PhD, <i>Choudari Kommineni, DVM</i> , Professor of Pathology, Department of Pathology, Microbiology and Immunology, UNMC
4:10-4:30	Case Report from the OR Curtis Hartman, MD, Professor, Department of Orthopaedic Surgery and Rehabilitation, UNMC
4:30-6:00	Students/postdoc poster viewing
6:30	Welcome dinner for speakers and guests, to be hosted by Keith Olsen, PharmD, FCCP, FCCM, Professor, <i>Joseph D. Williams</i> Endowed Dean, College of Pharmacy, UNMC
Morning Session, Friday, September 20, 2024	
OSTEOARTHRITIS AND PAIN	
Session Chairpersons:	
Edward V. Fehringer, MD , Professor and Vice Chair for Research and Wellness, Department of Orthopaedic Surgery and Rehabilitation, UNMC	
Amar Natarajan, PhD , <i>Ruth Branham</i> Professor, UNMC Eppley Institute for Research in Cancer and Allied Diseases, UNMC	
8:00-8:30 a.m.	Check-in and Breakfast
8:30-9:15	TBD Anne-Marie Malfait, MD, PhD, <i>The Klaus E. Kuettner, PhD</i> , Chair of Osteoarthritis Research, Department of Internal Medicine, Rush University
9:15-10:00	Albumin Hitchhiking siRNA Conjugates for Next Gen DMOADs Craig L. Duvall, PhD, <i>Cornelius Vanderbilt</i> Professor, Department of Bioengineering, Vanderbilt University
10:00-10:45	The Development of ProGel for Arthritis Pain Dong Wang, PhD, Professor of Pharmaceutical Sciences and Orthopaedics (Courtesy), UNMC
10:45-10:55	Break
10:55-11:40	Neural Mechanisms underlying Chronic Muscle Afferent Sensitization in PAD

	Hanjun Wang, MD, <i>Margaret R. Larson</i> Professor, The Department of Anesthesiology, UNMC
11:40-12:00	Case Report from the OR Chris Deans, MD, Assistant Professor, Department of Orthopaedic Surgery and Rehabilitation, UNMC
12:00-12:15	Closing remarks and awards for students/postdoc poster presentation Ram Mahato, PhD, <i>Parke-Davis</i> Professor and Chair, Department of Pharmaceutical Sciences, UNMC
12:15 p.m.	Meeting Adjourn. Sack lunch will be provided.