

Midwest Clinical & Translational Research Meeting

of Central Society for Clinical & Translational Research
and Midwestern American Federation for Medical Research

April 4-5, 2019

HILTON CHICAGO MAGNIFICENT MILE SUITES
CHICAGO, IL



Thursday, April 4th

- 8:30 am – 7:00 pm Registration Desk3rd Floor Foyer
- 7:00 am – 11:00 am **AFMR National Council Meeting** **Wheaton**
- 10:30 am – 3:00 pm **CSCTR Council Meeting**..... **New Town**
- 1:00 – 3:00 pm *Poster Session A (set-up)*.....*Lincoln Park/River North Foyer*
- 1:00 – 3:00 pm **MWAFMR Career Development Workshop**.....**Lakeshore Ballroom**
Moderator: Attaya Suvannasankha, MD, Indiana University School of Medicine
- 1:00 – 2:00 How to Write a Career Development Grant (F or K Award)
Dawn Belt Davis, MD, PhD, Associate Professor, University of Wisconsin - Madison
- 2:00 – 3:00 Challenges and Opportunities for Immigrant Physician Scientists
Joumana T. Chaiban, MD, FACE, Associate Professor of Medicine, UIC/Advocate Christ Medical Center
- 3:15 – 3:30 pm **CSCTR-MWAFMR Welcome**..... **Lakeshore Ballroom**
Moderators: Timothy B. Niewold, MD, New York University; Joumana T. Chaiban, MD, FACE, UIC/Advocate Christ Medical Center
- 3:30 – 4:15 pm **MWAFMR Award Presentations**..... **Lakeshore Ballroom**
Moderators: Joumana T. Chaiban, MD, FACE, UIC/Advocate Christ Medical Center; Attaya Suvannasankha, MD, Indiana University School of Medicine
- 3:33 – 3:39 **AFMR Henry Christian Awardees**
- A02: CLINICAL BENEFIT OF INTRAVENOUS N-ACETYLCYSTEINE IN PATIENTS WITH ISCHEMIC HEPATOPATHY**
Shana Kothari, MD, University of Illinois at Chicago/Advocate Christ Medical Center
- 3:40 – 3:46 **A09: MAN VS. MACHINE: COMPARISON OF A MACHINE LEARNING ALGORITHM TO CLINICIAN INTUITION FOR PREDICTING INTENSIVE CARE UNIT READMISSION**
Juan C. Rojas, MD, University of Chicago
- Midwest Trainee Travel Awardees**
- 3:47 – 3:53 **A06: IN VIVO STABLE ISOTOPE LABELING & QUANTITATIVE MASS SPECTROMETRY IMAGING OF A β PLAQUE DEPOSITION AND NEURONAL METABOLISM IN HUMAN AD BRAIN**
Norelle C. Wildburger, PhD, Washington University in St. Louis
- 3:54 – 4:00 **A04: DIETARY ISOLEUCINE IS A KEY REGULATOR OF METABOLIC HEALTH**
Deyang Yu, University of Wisconsin-Madison
- 4:01 – 4:07 **A05: TARGETING CENTRAL BIOMARKERS TO POTENTIATE ACUPUNCTURE ANALGESIA IN SICKLE CELL DISEASE**
Ying Wang, MD, PhD, University of Minnesota

- 4:08 – 4:14 **A03: BIOFILM PRODUCTION IN CLOSTRIDIODES (CLOSTRIDIUM) DIFFICILE EPIDEMIC STRAIN DH/NAP11/106**
Abdullahi Abdi, BS, Northwestern University Feinberg School of Medicine
- 4:15 – 5:00 pm **New Investigator Session..... Lakeshore Ballroom**
Moderator: Timothy B. Niewold, MD, New York University
- 4:18 – 4:31 **Outstanding Young Investigator**
A01: INVESTIGATING THE IMPACT OF HUMAN GPCR VARIANTS ON METABOLIC HOMEOSTASIS
Hongxia Ren, PhD, Indiana University
- 4:32 – 4:45 **ECDA Recipient**
A08: UNCOVERING SINGLE CELL ENDOTHELIAL METABOLISM DYNAMICS IN VASCULAR INJURY MODELS
David Wu, MD, PhD, University of Chicago
- 4:46 – 4:58 **ECDA Recipient**
A07: SEPSIS DRIVES DAMAGE ASSOCIATED MOLECULAR PATTERN EXPRESSION IN HUMAN BRAIN
Benjamin H. Singer, MD, PhD, University of Michigan Medical School
- 5:00 – 6:30 pm **Poster Session A & Opening Reception.....Lincoln Park/River North Foyer**
6:30 – 7:00 Poster Session A (take-down).....Lincoln Park/River North Foyer
- 6:30 – 8:00 pm **Cardiology/Pulmonary Lecture Wheaton**
Moderator: Steven Dudek, MD, University Illinois at Chicago
- 6:30 – 7:00 Using Big Data to Detect Clinical Deterioration
Matthew Churpek, MD, PhD, MPH, Assistant Professor of Medicine, University of Chicago
- 7:00 – 8:00 Cell-free Hemoglobin in Sepsis and ARDS: Bedside to Bench and Back Again
Lorraine B. Ware MD, Professor of Medicine and Director, Vanderbilt Medical Scholars Program, Vanderbilt University School of Medicine
- 6:30 – 8:00 pm **59th Annual Max Miller Lecture in Diabetes Research.....Lakeshore Ballroom**
Moderator: Dawn Belt Davis, MD, PhD, University of Wisconsin - Madison
- 6:30 – 6:50 Bilirubin, from Toxic Bile Substance to Metabolic Hormone
Terry D. Hinds, Jr., PhD, Assistant Professor, Department of Physiology and Pharmacology, University of Toledo
- 6:50 – 7:10 Insulin/IGF-1 Signaling Controls Muscle Mitochondrial Metabolism and Strength via FoxOs
Brian T. O'Neill, MD, PhD, Assistant Professor of Internal Medicine - Endocrinology and Metabolism, University of Iowa Carver College of Medicine
- 7:10 – 8:00 Max Miller Lecture ~ Mechanisms for the Beneficial Effects of Maternal Exercise on Offspring Metabolic Health
Laurie J. Goodyear, PhD, Professor of Medicine, Harvard Medical School; Section Head and Senior Investigator, Joslin Diabetes Center
- 7:00 – 9:00 pm **Meet-up with American Physician Scientists Association Portillo's Hot Dogs**
Come out to Portillo's and network with new and old friends at the APSA/CCTR Meet-up! This informal gathering is for attendees from both organizations to get together, catch up, share ideas, and network. No RSVP necessary. We look forward to seeing you there! Portillo's Hot Dogs, 100 W Ontario St.

Friday, April 5th

| | |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6:30 am – 3:30 pm | Registration Desk3 rd Floor Foyer |
| 7:00 – 8:00 am | Mentor Breakfast..... Wheaton <ul style="list-style-type: none">• How to learn from and land leadership positions on Regional and National committees <i>Florence Rothenberg, MS, MD, FACC, Associate Professor, University of Cincinnati; Elissa Klein, Executive Director, American Federation for Medical Research</i>• Sticking up for yourself: Communication and negotiation <i>Suthat Liangpunsakul, MD, MPH, Professor of Medicine, Indiana University School of Medicine</i>• Asking the right questions as you develop your research program <i>Robert McCullumsmith, MD, PhD, Professor and Chair, Department of Neuroscience, Research Director of the Neurosciences Institute, University of Toledo</i>• Becoming an independent investigator: How do I separate myself from my mentor(s) and start my own laboratory? <i>John Dickinson, MD, PhD, Assistant Professor, Associate Director-Adult Cystic Fibrosis Center, Pulmonary Critical Care, Sleep, & Allergy Division, University of Nebraska Medical Center</i>• Navigating authorship: Tips from behind the scenes of a journal <i>Jeffrey Laurence, MD, Professor of Medicine, Weill Cornell Medical College</i>• Funding your research: Writing successful grant applications <i>Joshua A. Englert, MD, Assistant Professor of Internal Medicine, The Ohio State University Wexner Medical Center</i>• Setting priorities: When to say yes and how to say no <i>Gregory M. Vercellotti, MD, FACP, Professor of Medicine, University of Minnesota School of Medicine; Terry G. Unterman, MD, Professor of Medicine, Physiology and Biophysics, University of Illinois at Chicago VA West Side Medical Center</i>• The balancing act for women in medicine and science <i>Attaya Suvannasankha, MD, Assistant Professor of Clinical Medicine, Indiana University School of Medicine; Jennifer Alexander-Brett, MD, PhD, Assistant Professor of Medicine, Washington University School of Medicine</i>• Identifying mentors and maintaining good mentor/mentee relationships <i>Dawn Belt Davis, MD, PhD, Associate Professor, University of Wisconsin - Madison</i> |
| 7:00 – 8:00 am | CSCTR Membership Application Processing Streeterville <i>Timothy B. Niewold, MD, CSCTR President; Abraham Thomas, MD, MPH, CSCTR Past President</i> <i>If you applied online, meet with Dr. Niewold or Dr. Thomas for a decision on the spot. Upon approval, your name will be listed as a new member during this morning's Business Meeting.</i> |
| 8:00 – 10:00 am | Poster Session B (set-up)Lincoln Park/River North Foyer |
| 8:15 – 9:15 am | AFMR Keynote Presentation.....Lakeshore Ballroom <i>Moderator: John D. Dickinson, MD, PhD, University of Nebraska Medical Center</i> Antimicrobial Bait and Switch: Disruption of Iron-Dependent Metabolism of Pathogenic Microbes using Gallium <i>Bradley Britigan, MD, University of Nebraska Medical Center</i> |
| 9:15 – 9:30 am | CSCTR Annual Business Meeting.....Lakeshore Ballroom <i>President: Timothy B. Niewold, MD, New York University</i> |
| 9:30 – 10:30 am | Department Chair Session I.....Lakeshore Ballroom <i>Chair: John M. Carethers, MD, University of Michigan Health System</i> Sepsis: It Doesn't Start nor End at the ICU Door <i>Hallie Prescott, MD, MSc, Assistant Professor</i> Lipidomics Reveal Early Stage Lipid Network Alterations Predictive of Chronic Kidney Disease Progression in Type-2 Diabetes <i>Farsad Afshinnia, MD, Assistant Professor of Medicine</i> |

Purinergic Signaling in Venous Thrombosis
Yogen Kanthi, MD, Assistant Professor, Cardiovascular & Vascular Medicine

10:30 – 11:30 am **Department Chair Session II.....Lakeshore Ballroom**
Chair: Ravi Durvasula, MD, Loyola University

Alcohol, Advanced Lung Disease, and Lung Transplant
Erin Lowery, MD, MS, Associate Professor

Sulfonyluera Receptor 2 (SUR2) Regulates Cardiac Substrate Utilization
Gregory Aubert, MD, PhD, Assistant Professor

Next Generation Sequencing in Cellular Immune Therapy
Nasheed Hossain, MD, Assistant Professor

11:30 am – 1:00 pm **Poster Session B & Lunch.....Lincoln Park/River North Foyer**

11:30 am – 1:00 pm **Annual Translational Research Editorial Meeting..... New Town**

1:00 – 1:30 pm *Poster Session B (take-down).....Lincoln Park/River North Foyer*

1:15 – 2:15 pm **CSCTR John B. Hickam Endowed Lecture.....Lakeshore Ballroom**
Moderator: Terry G. Unterman, MD, University of Illinois at Chicago VA West Side Medical Center

Cell Death and Sterile Inflammation in Liver Injury and Fibrosis
Ariel Feldstein, MD, Professor of Pediatrics, Chief, Division of Pediatric Gastroenterology, Hepatology, and Nutrition, University of California, San Diego

1:30 – 3:30 pm *Poster Session C (set-up).....Lincoln Park/River North Foyer*

2:15 – 2:30 pm **Translational Research Featured New Investigator.....Lakeshore Ballroom**
Moderator: Jeffrey Laurence, MD, Weill Cornell Medical College

STIMULATION OF THE ENDOGENOUS INCRETIN GLUCOSE-DEPENDENT INSULINOTROPIC PEPTIDE BY ENTERAL DEXTROSE IMPROVES GLUCOSE HOMEOSTASIS AND INFLAMMATION IN MURINE ENDOTOXEMIA
Faraaz Ali Shah, MD, Assistant Professor of Medicine, University of Pittsburgh Medical Center

2:30 – 3:15 pm **Research Innovations.....Lakeshore Ballroom**
Moderator: Timothy B. Niewold, MD, New York University

Novel Tools for Connecting Biological Disease Signatures with Drugs
Robert McCullumsmith, MD, PhD, Professor and Chair, Department of Neuroscience, Research Director of the Neurosciences Institute, University of Toledo

3:30 – 4:30 pm **Oral Abstract Session ILakeshore Ballroom**
Moderator: J. Brian Byrd, MD, MS, University of Michigan

3:30 – 3:41 **C12: INCIDENTAL DIAGNOSIS OF CARDIAC AMYLOIDOSIS IN AN 86-YEAR-OLD WITH MGUS - AL OR ATTR?**
Pratik S. Velangi, MD, University of Minnesota

3:42 – 3:53 **C14: A RARE CASE OF INFECTIOUS PSEUDOANEURYSM DUE TO ASPERGILLUS FLAVUS IN THE SETTING OF RENAL TRANSPLANT**
Samia Asif, MD, University of Missouri – Kansas City

3:54 – 4:05 **C13: CHRYSOBACTERIUM INDOLOGENES BACTEREMIA IN CIRRHOSIS**
Jaspreet S. Suri, MD, Clinical Fellow, Beth Israel Deaconess Medical Center

4:06 – 4:17 **C10: APPROPRIATE USE OF TELEMETRY: INDICATION VERSUS GRATIFICATION**
Julien Feghaly, MD, St. Louis University Hospital

4:18 – 4:29 **C11: APICAL HYPERTROPHIC CARDIOMYOPATHY: A DIAGNOSTIC DILEMMA**
Najia Waheed, MBBS, Rawalpindi Medical College

| | |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3:30 – 4:30 pm | Oral Abstract Session II..... Wheaton <i>Moderator: Sidharth Mahapatra, MD, PhD, University of Nebraska Medical Center</i> |
| 3:30 – 3:44 | C07: AUTOPHAGY FACILITATES MITOCHONDRIAL BIOGENESIS TO MAINTAIN MITOCHONDRIAL HOMEOSTASIS DURING CARDIAC ISCHEMIA/REPERFUSION INJURY <i>Min Xie, MD, PhD, University of Alabama at Birmingham</i> |
| 3:45 – 3:59 | C08: ROLE OF UCHL1 IN RADIATION-INDUCED LUNG INJURY MEDIATED BY SPHINGOLIPIDS <i>Yulia Epshtein, PhD, University of Illinois at Chicago</i> |
| 4:00 – 4:14 | C06: ENDOTHELIAL CELL INTEGRIN BETA4 KNOCKOUT ATTENUATES LPS-INDUCED MURINE ACUTE LUNG INJURY <i>Weiguo Chen, MD, PhD, University of Illinois at Chicago</i> |
| 4:15 – 4:29 | C05: Gq-MEDIATED PKD ACTIVATION INDUCES ABERRANT MITOCHONDRIAL FISSION THROUGH PHOSPHORYLATION OF DLP1 IN CARDIOMYOCYTES <i>Bong Sook Jhun, PhD, University of Minnesota</i> |
| 3:30 – 4:30 pm | Oral Abstract Session III..... Streeterville <i>Moderator: Suthat Liangpunsakul, MD, MPH, Indiana University School of Medicine</i> |
| 3:30 – 3:44 | C03: TARGETED DISRUPTION OF NA/K-ATPASE- SRC SIGNALING CASCADE SIGNIFICANTLY REDUCES RENAL INFLAMMATION AND OXIDATIVE STRESS FOLLOWING 5/6TH PARTIAL NEPHRECTOMY <i>Fatimah K. Khalaf, MB ChB, University of Toledo</i> |
| 3:45 – 3:59 | C04: ALGINATE OLIGOSACCHARIDE ALLEVIATES D-GLACTOSE-INDUCED CARDIAC AGING IN MICE VIA REGULATING THE SIRT1/PGC-1A SIGNALING PATHWAY <i>Wenjing Feng, MD, Qingdao University</i> |
| 4:00 – 4:14 | C01: OVEREXPRESSION OF LONG NON-CODING RNA H19 REGULATED THE METHIONINE METABOLISM IN ALCOHOLIC LIVER DISEASE <i>Zhihong Yang, PhD, Indiana University</i> |
| 4:15 – 4:29 | C02: ABLATING ADIPOSE CREB3L3 PRESERVES METABOLIC HEALTH DURING OBESITY <i>Maximilian McCann, BS, University of Illinois at Chicago</i> |
| 4:30 – 6:00 pm | Poster Session C & Closing Reception.....Lincoln Park/River North Foyer |
| 6:00 – 6:30 pm | <i>Poster Session C (take-down).....Lincoln Park/River North Foyer</i> |