

# FINAL PROGRAM

50<sup>th</sup> Annual Combined  
Meeting of CSCTR  
and MWAfMR

April 26-27,  
2018

THE HILTON CHICAGO  
MAGNIFICENT MILE SUITES  
CHICAGO, IL



CSCTR-0317-728

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THE  
DATE

51<sup>st</sup> Annual  
Combined Meeting of  
CSCTR and MWAfMR

April 4-5,  
2019

HILTON CHICAGO  
MAGNIFICENT MILE SUITES  
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CSCTR  
Central Society for Clinical and Translational Research

AFMR  
American Federation  
for Medical Research  
Develop and mentor tomorrow's leaders in medical research



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Elissa Klein  
Executive Director

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# WELCOME TO THE 2018 COMBINED ANNUAL MEETING

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I hope you have been looking forward to this meeting, to learn from the most prestigious leaders in our fields and to collaborate with one another. We have a terrific program planned, including outstanding invited speakers, our traditional Department Chair sessions highlighting early career faculty at two Midwest medical schools (this year University of Pittsburgh and Northwestern University), “hot” new science from members and trainees presented as posters and oral sessions, and multiple mentoring opportunities. My sincere hope is that you take much good away from this meeting, which will resonate long after in your career.

CSCR (as it was then known) held its first meeting, 91 years ago, in November 1928, and in October 1969 the first joint meeting of CSCTR and MWAFFMR convened; **Making this our 50th meeting!** Throughout this long history, our meeting has accomplished its mission to share research techniques and new findings, learn the latest on the management of diseases and disorders across various subspecialties of medicine, and provide career and personal development activities for early career investigators.

I extend my sincere gratitude to the Program Committee for creating an outstanding program. Special thanks go to the many reviewers required to score the thirty-one-year record high of 191 abstracts. They are listed on pages 6.

I encourage you to continue your involvement in CSCTR and/or AFMR. Check out our websites for membership information.

Abraham Thomas, MD  
*CSCTR President*



As Chair of the Midwestern Section of the AFMR (MWAFFMR), I welcome you to Chicago and the Combined Meeting of the CSCTR and MWAFFMR. The strength of this program lies in the multidisciplinary educational offerings and collegial setting. The goal of the AFMR is to develop and mentor tomorrow’s leaders in medical research, through providing a venue to share and present research, recognize outstanding achievements in research, meet new peers and mentors, gain valuable career advice, and become involved with society service. On Thursday afternoon, during the Career Development Workshop, Dr. Catherine DeAngelis of Johns Hopkins University will speak on Women’s Road to Leadership in Medicine and Dr. Michael McPhaul, Editor-in-Chief of the Journal of Investigative Medicine, will provide publishing tips. Friday morning we have an outstanding AFMR Keynote Speaker, Dr. Florence Rothenberg, AFMR President, who will share her findings on Troponin Measurement in the Critically Ill. In addition, several outstanding abstracts will be presented by our MWAFFMR Scholars. We thank you for attending! Come up and introduce yourself during the meeting and ask me how to get more involved in AFMR!

Dawn Belt Davis, MD, PhD  
*Chair, AFMR Midwestern Section Council*

# COMBINED ANNUAL MEETING

## Registration Desk

Thursday: 6:30 am – 7:00 pm

Friday: 6:30 am – 3:30 pm

## Mobile App

Download the 2018 CSCTR-MWAFMR Annual Meeting mobile app! Available in app stores for all mobile devices and tablets. Create your own profile, search attendees, post to social media, and more! See page 11 for download instructions.

## Annual Business Meeting

The CSCTR Annual Business Meeting on Friday at 9:15 am is open to all attendees.

## Poster Sessions

2018 marks another record number of poster presentations (most in 31 years) leading to three sessions!

Thursday

5:00 – 6:30 pm Poster Session A and Opening Reception

Friday

11:30 am – 1:00 pm Poster Session B and Lunch

4:30 – 6:00 pm Poster Session C and Closing Reception

## Learning Objectives

The 2018 Combined Annual Meeting of the Central Society for Clinical and Translational Research (CSCTR) and the Midwestern Section American Federation for Medical Research (MWAFMR) presents the Hickam Lecture, Keynote Speaker, plenary sessions, and Oral Abstract sessions on topics of timely interest for researchers and physicians interested in the broad field of clinical research.

Participants at the Combined Annual Meeting will acquire knowledge into clinical research techniques and new findings in various aspects of internal medicine and other fields.

At the completion of the meeting, participants should be able to:

- Recognize the value of new research techniques;
- Describe new research findings in cardiology, gastroenterology, pulmonary and critical care, hematology, oncology, nephrology, infectious disease, allergy, immunology, and rheumatology;
- Explain the diagnosis and management of diseases and disorders across various subspecialties of medicine.

## CME Certificate

### Satisfactory completion

Learners must complete an evaluation form to receive a certificate of completion. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available. If you are seeking continuing education credit for a specialty not listed below, it is your responsibility to contact your licensing/certification board to determine course eligibility for your licensing/certification requirement.

## Physicians



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Credit Designation Statement - Amedco, LLC designates this live activity for a maximum 11 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## About the Central Society for Clinical and Translational Research

The core purpose of CSCTR is to support research and researchers in interdisciplinary clinical and translational investigation for the benefit of humanity.

CSCTR:

- Will play an active role in educating and nurturing the next generation of scientists;
- understands that research is essential to the advancement of health;
- is in favor of the promotion of an open exchange of information;
- values the importance of mentoring to mutual satisfaction and success;
- values equality and inclusiveness;
- and believes in the diversity of backgrounds, scientific ideas, and approaches.

CSCTR has active members throughout the Midwest U.S. and Canada. The society publishes the monthly *Translational Research: The Journal of Laboratory and Clinical Medicine* and holds an Annual Meeting that contains cutting-edge papers, posters, lectures, and state-of-the-art forums. Membership is by nomination

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1938 – William H. Bunn, MD  
1939 – Walter H. Nadler, MD  
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1941 – Lawrence D. Thompson, MD  
1942 – Arlie R. Barnes, MD  
1943 – John Walker Moore, MD  
1944 – Cecil J. Watson, MD  
1945 – Willis M. Fowler, MD  
1946 – Roy W. Scott, MD  
1947 – Carl V. Moore, MD  
1948 – Richard McKean, MD  
1949 – E. V. Allen, MD  
1950 – Wesley Spink, MD  
1951 – William Bean, MD  
1952 – Barry Wood, MD  
1953 – George E. Burch, MD  
1954 – Jerome Conn, MD  
1955 – Clayton G. Loosli, MD  
1956 – Randall Sprague, MD  
1957 – Kenneth Kohlstaedt, MD  
1958 – Thornton Scott, MD  
1959 – Edgar S. Gordon, MD  
1960 – John H. Dingle, MD  
1961 – Gordon Meiklejohn, MD  
1962 – Charles Rammelkamp, MD  
1963 – Donald Seldin, MD  
1964 – Richard Ebert, MD  
1965 – David Earle, MD  
1966 – Robert A. Good, MD  
1967 – Austin S. Weisberger, MD  
1968 – James F. Hammarsten, MD  
1969 – William H. Daughaday, MD  
1970 – John B. Hickam, MD  
1971 – Oscar D. Ratnoff, MD  
1972 – Leonard L. Madison, MD  
1973 – Robert F. Schilling, MD  
1974 – John W. Eckstein, MD  
1975 – Gene H. Stollerman, MD  
1976 – Fred Allison, MD  
1977 – Giles G. Bole, Jr., MD  
1978 – David Kipnis, MD  
1979 – Roy Patterson, MD  
1980 – Norton Greenberger, MD  
1981 – Walter J. Daly, MD  
1982 – Arnold Weissler, MD  
1983 – Virginia Donaldson, MD  
1984 – Gilbert M. Schiff, MD  
1985 – Thomas F. Ferris, MD  
1986 – Francois M. Abboud, MD  
1987 – William N. Kelley, MD  
1988 – Patrick J. Mulrow, MD  
1989 – Arthur Rubenstein, MD  
1990 – August M. Watanbe, MD  
1991 – Theodore A. Kotchen, MD  
1992 – Adel A.F. Mahmoud, MD  
1993 – Murray L. Levin, MD  
1994 – Robert G. Luke, MD  
1995 – Tadataka Yamada, MD  
1996 – Karl Weber, MD  
1997 – John Phair, MD  
1998 – Gary W. Hunninghake, MD  
1999 – Daniel Villareal, MD  
2000 – D. Craig Brater, MD  
2001 – H. David Humes, MD  
2002 – Robert F. Todd, III, MD PhD  
2003 – Jeffrey Glassroth, MD  
'03/'04 – Joe G.N. Garcia, MD (6-mos term)  
2004 – Lawrence A. Frohman, MD  
2005 – Rose S. Fife, MD  
2006 – David W. Kamp, MD  
2007 – James Martins, MD  
2008 – Brian Hoit, MD  
2009 – David Crabb, MD  
2010 – Bradley Britigan, MD  
2011 – Virginia J. Savin, MD  
2012 – Neal Weintraub, MD  
2013 – Jordan P. Metcalf, MD  
2014 – Roy E. Weiss, MD, PhD  
2015 – Ellen McCarthy, MD  
2016 – Roy L. Silverstein, MD

# AFMR INFORMATION

## About the American Federation for Medical Research

The mission of the American Federation for Medical Research is to “develop and mentor tomorrow’s leaders in medical research”. The AFMR follows this mission with the goal to:

- Foster excellence in training and successful development of medical investigators
- Disseminate scholarly, multidisciplinary, ethical research on human disease and health care delivery
- Educate public and government leaders about medical research and the importance of its support

The AFMR’s diverse membership positions the organization as one of the few medical associations with a broad constituency. Members enjoy the ability to tap into a professional network of colleagues whose interests and expertise facilitate the “cross fertilization” of information about current issues in biomedical research. The AFMR repeatedly demonstrates how clinical and basic research efforts integrate to provide the scientific basis for medical practice. The organization’s translational aspect has broad reaching clinical applications and strengthens the fields of scientific study across multiple medical disciplines.

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1961 – Richard Hill, Jr., MD  
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1964 – Alfred J. Bollet, MD  
1965 – Morton Bogdanoff, MD  
1966 – Richard Havel, MD  
1967 – William Huckabe, MD  
1968 – Henry N. Wagner Jr., MD  
1969 – Edgar J. Sanford, MD  
1971 – Francois M. Abboud, MD  
1972 – Michael Bell, MD  
1973 – Kenneth L. Melmon, MD  
1974 – Robert A. Kreisberg, MD  
1975 – David R. Challoner, MD  
1976 – Robert Zelis, MD  
1977 – Samuel Thayer, MD  
1978 – Gerald F. DiBona, MD  
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1980 – Anthony S. Fauci, MD  
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1984 – Benjamin D. Schwartz, MD  
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1989 – Willa Hsueh, MD

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2001 – Kevin D. O’Brien, MD  
2002 – Jane E. B. Reusch, MD  
2003 – Errol D Crook, MD  
2004 – Mark R. Burge, MD  
2005 – Deborah Zucker, MD, PhD  
2006 – Jonathan Q. Purnell, MD  
2007 – Jim C. Oates, MD  
2008 – Alan L. Buchman, MD  
2009 – Abdulla K Salahudeen, MD  
2010 – Francis J Miller, MD  
2011 – Sharma S. Prabhakar, MD, MBA  
2012 – Abraham Thomas, MD, MPH  
2013 – Robert J Freishtat, MD, MPH  
2014 – MingMing Ning, MD, MMSc  
2015 – Amir A. Zeki, MD, MAS  
2016 – Armand Krikorian, MD, FACE

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Are you interested in reviewing abstracts for the 2019 Annual Meeting? Send an email to [info@csctr.org](mailto:info@csctr.org) with your name, institution, specialty and email address.



# AWARD WINNERS

---

Congratulations to all recipients

## **Outstanding Young Investigator Award (\$2,000 award)**

Robert Guzy ~ The University of Chicago

## **MWAFMR Scholar Award (\$100 award)**

Fatimah K. Khalaf ~ University of Toledo

Apurva C. Lad ~ University of Toledo

Vidyani S. Survadevara ~ University of Illinois at Chicago

John Willoughby ~ University of Illinois at Chicago

## **AFMR JUNIOR PHYSICIAN INVESTIGATOR AWARD (\$1,250 award)**

Jennifer Alexander-Brett ~ Washington University School  
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## **AFMR HENRY CHRISTIAN AWARD (\$500 award)**

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## **K Award (\$1,000 award)**

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John Dickinson ~ University of Nebraska Medical Center

Alfonso Eirin ~ Mayo Clinic

Luke E. Engelking ~ University of Texas Southwestern

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Karuna Rasineni ~ University of Nebraska Medical Center

Santosh Saraf ~ University of Illinois at Chicago

Milda R. Saunders ~ University of Chicago

Amy Shah ~ Cincinnati Children's Hospital Medical  
Center

Umesh Sharma ~ University at Buffalo

Benjamin Singer ~ Northwestern University Feinberg  
School of Medicine

Tuan M. Tran ~ Indiana University School of Medicine

Min X. Xie ~ University of Alabama at Birmingham

## **Oral Abstract Award (\$500 award)**

Arash Aghajani Nargesi ~ Mayo Clinic

Lucas Gu, ~ Saint Louis University

Md Abdul H. Khan ~ Medical College of Wisconsin

Frederick M. Kuhlmann ~ Washington University

Jacquelyn Kulinski ~ Medical College of Wisconsin

Huilin Shi ~ University of Toledo College of Medicine

Philip A. Verhoef ~ The University of Chicago

Lishi Xie ~ University of Illinois at Chicago

Deyang Y. Yu ~ University of Wisconsin – Madison

## **Trainee Travel Award (\$300 or \$600 award)**

Syeda H. Afroze ~ Texas A&M Health Science Center  
College of Medicine

Ahmed Alsaedi, ~ Advocate Christ Medical Center

Scott Anjewierden ~ Cleveland Clinic Lerner College of  
Medicine at Case Western Reserve University

AHM Zuberi Ashraf ~ Texas A&M University Central Texas

Muaataz Azawi ~ Mount Sinai Elmhurst

Usman A. Bhatti ~ University of Oklahoma Health  
Sciences Center

Joseph T. Blumer ~ University of Wisconsin-Madison

Christopher Bobba ~ The Ohio State University

Jacqueline Brinkman ~ University of Wisconsin

Weiguo Chen ~ University of Illinois at Chicago

Nicole E. Cummings ~ University of Wisconsin – Madison

Fadi Ghrair ~ Icahn School of Medicine at Mount Sinai  
(Elmhurst)

Natalie Guerrero ~ University of Wisconsin

Maher Homsy ~ Mount Sinai

Dan-Ping Hu ~ University of Illinois at Chicago

Ali Kahveci ~ Mayo Clinic

Rowan Karaman ~ University of Wisconsin – Madison

Hung Tae Kim ~ University of Wisconsin – Madison

Marc L. Lubitz ~ Wright State University Boonshoft School  
of Medicine

Maximilian McCann ~ University of Illinois at Chicago

Afroze Midori ~ University of Texas at Austin

Chrysan J. Mohammed ~ University of Toledo

AdePeju Oshodi ~ Indiana University School of Medicine

Heidi H. Pak ~ University of Wisconsin – Madison

Ahmed F. Pantho ~ University of Texas at Austin

Darshan Patel ~ Icahn School of Medicine at Mount Sinai  
(Elmhurst)

Matthew V. Purbaugh ~ University of Nebraska Medical  
Center

Xinyan Qu ~ University of Illinois at Chicago

Shalvinder K. Seehra ~ University of Missouri School of  
Medicine

Gisele Toumi ~ University of Wisconsin School of  
Medicine and Public Health

Huashan Wang ~ University of Illinois at Chicago

Lichun Wang ~ University of Illinois at Chicago

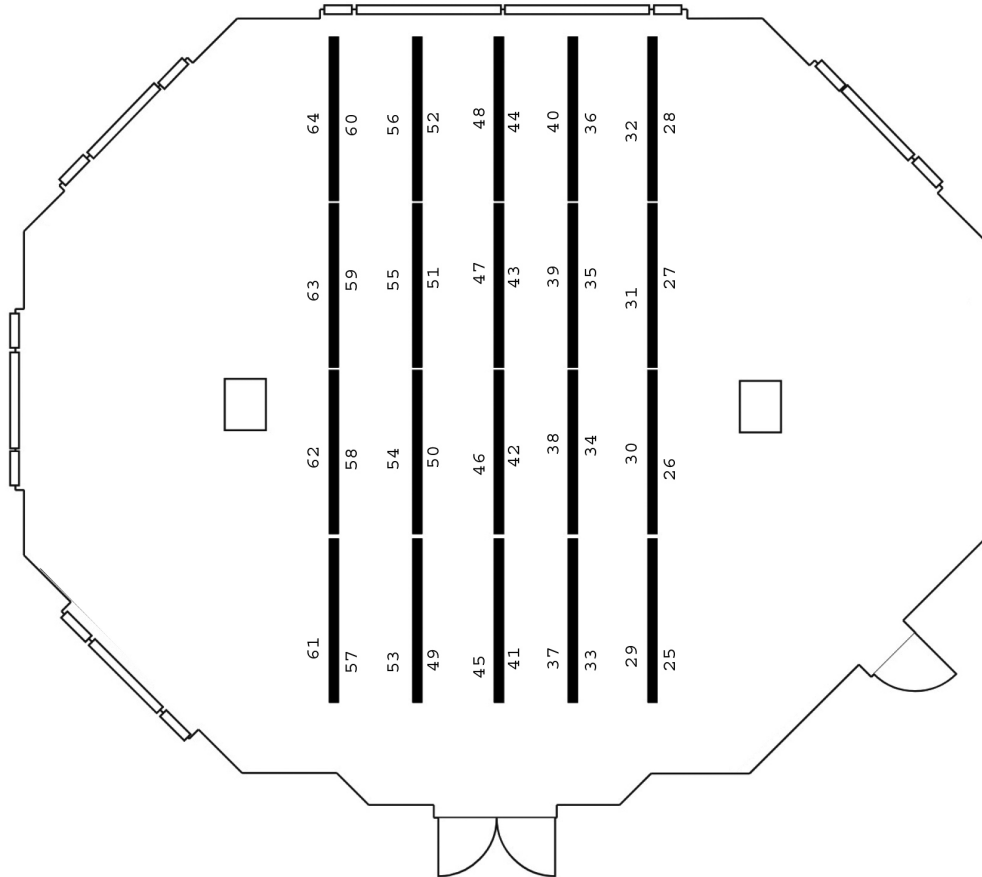
David Wu ~ University of Chicago

# GETTING AROUND

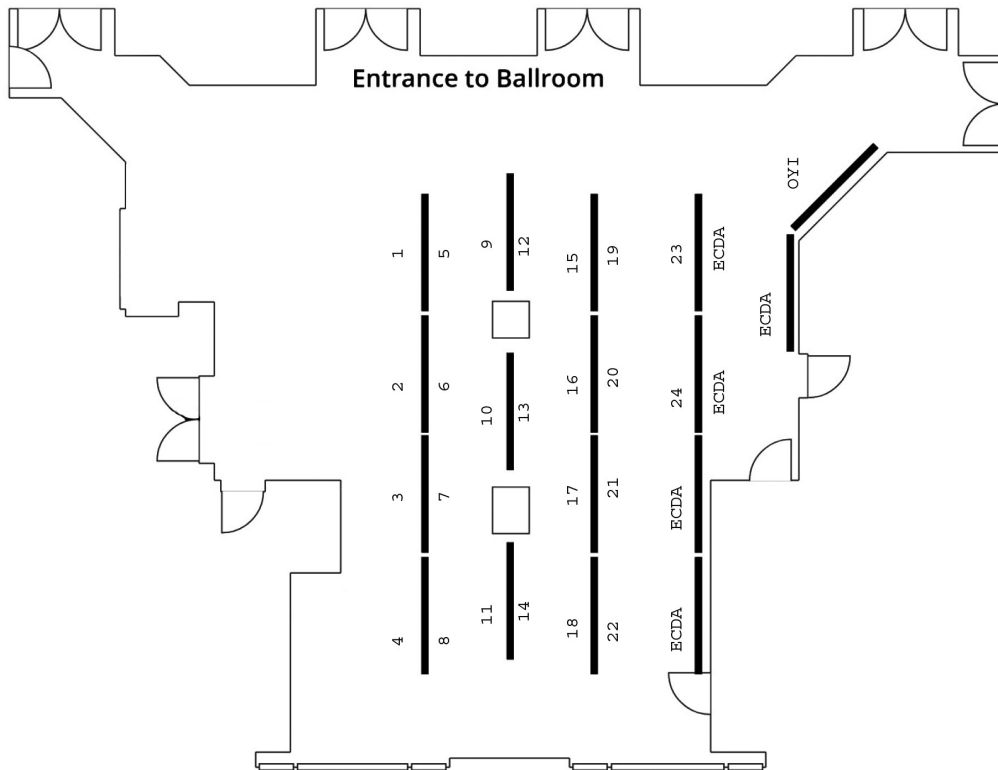


# GETTING AROUND

## Lincoln Park Meeting Room



## River North - Ballroom Prefunction



# SCHEDULE-AT-A-GLANCE

## Thursday, April 26

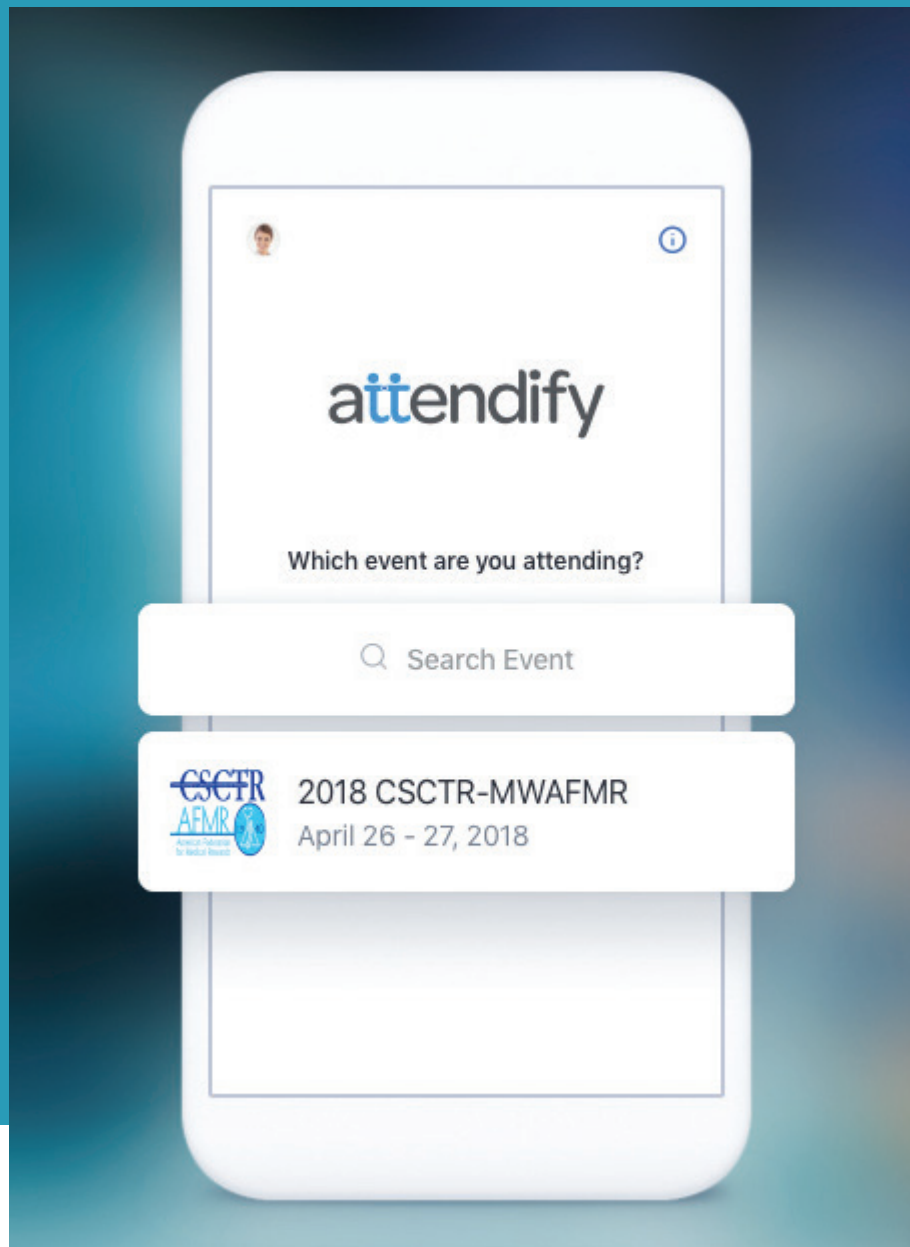
6:30 am – 7:00 pm	Registration Desk	Pre-function
7:00 am – 11:00 am	AFMR National Council Meeting	Wheaton
10:30 am – 3:00 pm	CSCTR Council Meeting	New Town
1:00 – 3:00 pm	<i>Poster Session A Mount</i>	<i>Pre/Lincoln Park</i>
1:00 – 3:00 pm	MWAFMR Career Development Workshop	Lakeshore
3:15 – 3:30 pm	CSCTR-MWAFMR Welcome	Lakeshore
3:30 – 4:15 pm	MWAFMR Award Presentations	Lakeshore
4:15 – 5:00 pm	New Investigator Session	Lakeshore
5:00 – 6:30 pm	Poster Session A & Opening Reception	Pre/Lincoln Park
6:30 – 7:00 pm	<i>Poster Session A Strike</i>	<i>Lincoln Park</i>
6:30 – 8:00 pm	Cardiology/Pulmonary Club	Wheaton
	58th Annual Max Miller Lecture in Diabetes Research	Lakeshore

## Friday, April 27

6:30 am – 3:30 pm	Registration Desk	Pre-function
7:00 – 8:00 am	Mentor Breakfast	Wheaton
	<b>New!</b> CSCTR Membership Application Processing	Wheaton
8:00 – 10:00 am	<i>Poster Session B Mount</i>	<i>Lincoln Park</i>
8:15 – 9:15 am	AFMR Keynote Presentation	Lakeshore
9:15 – 9:30 am	CSCTR Annual Business Meeting	Lakeshore
9:30 – 10:30 am	Department Chair Session I	Lakeshore
10:30 – 11:30 am	Department Chair Session II	Lakeshore
11:30 am – 1:00 pm	Poster Session B & Lunch	Pre/Lincoln Park
11:30 am – 1:00 pm	Translational Research Editorial Meeting	Wheaton
1:00 – 1:30 pm	<i>Poster Session B Strike</i>	<i>Lincoln Park</i>
1:15 – 2:15 pm	John B. Hickam Endowed Lecture	Lakeshore
1:30 – 3:30 pm	<i>Poster Session C Mount</i>	<i>Lincoln Park</i>
2:15 – 2:30 pm	Translational Research Featured New Investigator	Lakeshore
2:30 – 3:15 pm	<b>New!</b> Research Innovations	Lakeshore
3:30 – 4:30 pm	Oral Abstract Session I	Lakeshore
	Oral Abstract Session II	Wheaton
	Oral Abstract Session III	Streeterville
4:30 – 6:00 pm	Poster Session C & Closing Reception	Pre/Lincoln Park
6:00 – 6:30 pm	<i>Poster Session C Strike</i>	<i>Pre/Lincoln Park</i>



Download Attendify our official mobile app then search  
“2018 CSCTR-MWAFMR”



# MEETING SCHEDULE

All sessions jointly presented by: Central Society for Clinical and Translational Research & Midwestern Section American Federation for Medical Research

## Thursday, April 26

**6:30 am – 7:00 pm** Pre-function

### Registration Desk

**7:00 – 11:00 am** Wheaton

### AFMR National Council Meeting

**10:30 am – 3:00 pm** New Town

### CSCTR Council Meeting

**1:00 – 3:00 pm** Lakeshore

### MWAFMR Career Development Workshop

Moderator: Dawn Belt Davis, MD, PhD  
University of Wisconsin - Madison

### Women's Road to Leadership in Medicine

Catherine D. DeAngelis, MD, MPH  
Johns Hopkins University School of Medicine

### Publishing Tips from a Journal Editor

Michael J. McPhaul, MD  
Quest Diagnostics Nichols Institute, CA

**3:15 – 3:30 pm** Lakeshore

### CSCTR-MWAFMR Welcome

Moderators: Dawn Belt Davis, MD, PhD  
University of Wisconsin – Madison;  
Abraham Thomas, MD, MPH  
University of Massachusetts Medical School

**3:30 – 4:15 pm** Lakeshore

### MWAFMR Award Presentations

Moderator: Dawn Belt Davis, MD, PhD  
University of Wisconsin – Madison

### AFMR Junior Physician Investigator Awardee

#### C12: REGULATION OF IL33 NUCLEOKINE FUNCTION IN COPD

Jennifer Alexander-Brett, MD, PhD  
Washington University School of Medicine

### AFMR Henry Christian Awardee

Management and Complications of GCK-MODY in Pregnancy in Women Enrolled in the US Monogenic Diabetes Registry

Laura Thomason Dickens, MD  
The University of Chicago Medical Center

### MWAFMR Scholars

**A14: TIMING DIFFERENCES IN DIAGNOSIS BETWEEN SOFA, QSOFA, AND SIRS CRITERIA IN A LARGE ICU COHORT**

John P. Willoughby, MD, University of Illinois at Chicago

**A20: EVIDENCE OF HEPATOTOXICITY FOLLOWING CHRONIC LOW DOSE EXPOSURE TO MICROCYSTIN-LR IN A MURINE MODEL OF NON-ALCOHOLIC FATTY LIVER DISEASE**

Apurva C. Lad, PhD Candidate, University of Toledo

**A25: CARDIOTONIC STEROID SIGNALING THROUGH NA/K-ATPASE-A-1 AND SRC KINASE ENHANCE FUNCTIONAL INTERACTIONS BETWEEN IMMUNE CELLS AND ENDO/EPITHELIAL CELLS**

Fatimah K. Khalaf, PhD, University of Toledo

**A30: ELUCIDATING THE ROLE OF PHOSPHOLIPASE D IN IDIOPATHIC PULMONARY FIBROSIS AND HOW IT MEDIATES EPITHELIAL INJURY AND APOPTOSIS**

Vidyani Suryadevara, PhD, University of Illinois at Chicago

**4:15 – 5:00 pm** Lakeshore

### New Investigator Session

Moderator: Abraham Thomas, MD, MPH, University of Massachusetts Medical School

### Outstanding Young Investigator

**FIBROBLAST GROWTH FACTOR 2 DECREASES BLEOMYCIN-INDUCED PULMONARY FIBROSIS THROUGH INHIBITION OF FIBROBLAST COLLAGEN PRODUCTION**

Robert D. Guzy, MD, PhD, University of Chicago

### ECDA Recipient

**TOOLS TO INCREASE PHYSICAL ACTIVITY AMONG MINORITY WOMEN WITH ASTHMA**

Sharmilee M. Nyenhuis, MD, University of Illinois at Chicago

### ECDA Recipient

**SYNAPTIC MECHANISMS OF NEUROPSYCHOLOGICAL IMPAIRMENT IN TRAUMATIC BRAIN INJURY**

Andrew D. Sauerbeck, PhD, Washington University School of Medicine

**5:00 – 6:30 pm** Pre/Lincoln Park

### Poster Session A & Opening Reception

**6:30 – 8:00 pm** Wheaton

### Cardiology/Pulmonary Club

Moderator: Steven Dudek, MD, University Illinois at Chicago

### Understanding Pulmonary Complications of Sickle Cell Disease: A Precision Medicine Approach

Roberto F. Machado, MD, Chief of Pulmonary, Indiana University

# MEETING SCHEDULE

6:30 – 8:00 pm

Lakeshore

## 58th Annual Max Miller Lecture in Diabetes Research

Moderator: Terry G. Unterman, MD, University of Illinois at Chicago VA West Side Medical Center

### Biomarkers of Beta Cell Stress in Type 1 Diabetes

Emily K Sims, MD, Professor, Indiana University School of Medicine, Indianapolis, IN

### Exploiting Cellular Bioenergetics as an In Vivo Strategy Targeting Diabetes-induced Inflammation

Jacob Haus, PhD, Associate Professor, School of Kinesiology, University of Michigan, Ann Arbor, MI

### Max Miller Lecture ~ Metabolic Changes in Fatty Liver Regression

Elizabeth J. Parks, PhD, Maxine Seabaugh Schade Scholar, Dept. Nutrition & Exercise Physiology, Assoc. Director, Clinical Research Center, School University of Missouri, Columbia, MO

## Friday, April 27

6:30 am – 3:30 pm

Pre-function

## Registration Desk

7:00 – 8:00 am

Wheaton

## Mentor Breakfast

### Sticking up for yourself: Communication and negotiation

Suthat Liangpunsakul, MD, MPH, Professor of Medicine; Attaya Suvannasankha, MD, Assistant Professor of Clinical Medicine, Indiana University School of Medicine

### Becoming an independent investigator: How do I separate myself from my mentor(s) and start my own laboratory?

Timothy B. Niewold, MD, Judith and Stewart Colton Professor of Medicine and Pathology and Director, Colton Center for Autoimmunity, New York University

### Navigating authorship: Tips from behind the scenes of a journal

Jeffrey Lawrence, MD, Professor of Medicine, Weill Cornell Medical College

### Funding your research: Writing successful grant applications

Joshua A. Englert, MD, Assistant Professor of Internal Medicine, The Ohio State University Wexner Medical Center

### Setting priorities: When to say yes and how to say no

Debra Romberger, MD, Department Chair Internal Medicine, University of Nebraska Medical Center

### Leadership qualities in translational research

Francis Charles Brunnicardi, MD, Chair of Surgery, University of Toledo Medical Center

### The balancing act for women in medicine and science

Dawn Belt Davis, MD, PhD, Associate Professor, University of Wisconsin - Madison

7:00 – 8:00 am

Wheaton

## New! CSCTR Membership Application Processing

Abraham Thomas, MD, MPH, CSCTR President  
Apply online, bring your current CV and a support letter from your institution and Dr. Thomas will review for approval on the spot. Upon approval, your name will be listed as a new member during the 9:15 am Business Meeting.

8:15 – 9:15 am

Lakeshore

## AFMR Keynote Presentation

Moderator: Dawn Belt Davis, MD, PhD  
University of Wisconsin – Madison

## Troponin Measurement in the Critically Ill

Florence Rothenberg, MS, MD, FACC  
University of Cincinnati Veterans Administration Medical Center, Cincinnati, OH

9:15 – 9:30 am

Lakeshore

## CSCTR Annual Business Meeting

President: Abraham Thomas, MD, MPH, University of Massachusetts Medical School; Treasurer: Debra Romberger, MD, University of Nebraska Medical Center

9:30 – 10:30 am

Lakeshore

## Department Chair Session I

Chair: Mark Gladwin, MD, University of Pittsburgh

- Mehret Birru-Talabi, MD, PhD, Assistant Professor of Medicine – Rheumatology/Clinical Immunology
- Jessica Merlin, MD, PhD, MBA, Visiting Associate Professor of Medicine – Infectious Diseases
- Jason Rose, MD, MBA, Assistant Professor of Medicine – Pulmonary, Allergy, Critical Care Medicine

10:30 – 11:30 am

Lakeshore

## Department Chair Session II

Chair: Douglas E. Vaughan, MD, Northwestern University

- Panagiotis Flevaris, MD, PhD, Instructor of Medicine – Cardiology
- Jennie Lin, MD, MTR, Assistant Professor of Medicine – Nephrology and Hypertension
- Benjamin D. Singer, MD, Assistant Professor of Medicine – Pulmonary, Critical Care, Biochemistry, Molecular Genetics

11:30 am – 1:00 pm

Pre/Lincoln Park

## Poster Session B & Lunch

11:30 am – 1:00 pm

Wheaton

## Translational Research Editorial Meeting

# MEETING SCHEDULE

All sessions jointly presented by: Central Society for Clinical and Translational Research & Midwestern Section American Federation for Medical Research

**1:15 – 2:15 pm** Lakeshore

## John B. Hickam Endowed Lecture

Moderator: Timothy B. Niewold, MD, New York University

### Fitting Medicine into the Lives of People

Jerry A. Krishnan, MD, PhD  
University of Illinois at Chicago

**2:15 – 2:30 pm** Lakeshore

## Translational Research Featured New Investigator

Moderator: Jeffrey Lawrence, MD, Weill Cornell Medical College

### Molecular Imaging of the Kidney in Lupus Nephritis to Characterize Response to Treatment

Samir V. Parikh, MD, FACP, FASN, The Ohio State University Medical Center

**2:30 – 3:15 pm** Lakeshore

## New! Research Innovations

Moderators: Dawn Belt Davis, MD, PhD, University of Wisconsin – Madison; Abraham Thomas, MD, MPH, University of Massachusetts Medical School

### Precision Targeted Therapy for Pancreatic Cancer

Francis Charles Brunnicardi, MD, Chair of Surgery, University of Toledo Medical Center

**3:30 – 4:30 pm** Lakeshore

## Oral Abstract Session I

Moderator: David J. Kennedy, PhD, The University of Toledo

### B02: INTERVENTIONS TO REDUCE SEDENTARY BEHAVIOR AT WORK

Jacquelyn Kulinski, MD, Medical College of Wisconsin

### B03: ACUTE DECOMPENSATED HEART FAILURE SECONDARY TO METASTATIC OROPHARYNGEAL SQUAMOUS CELL CARCINOMA

Lucas Gu, DO, St. Louis University Hospital

### B04: THE EFFECT OF E-CIGARETTE VAPING ON CARDIAC FUNCTION IN MICE

Huilin Shi, University of Toledo College of Medicine

**3:30 – 4:30 pm** Wheaton

## Oral Abstract Session II

Moderator: Mohammad N. Uddin, PhD, FAHA, Orion Institute for Translational Medicine and Texas A&M University College of Medicine

### B05: THE ROLE OF ADIPOSE MECHANISTIC TARGET OF RAPAMYCIN COMPLEX 2LONGEVITY AND THE RESPONSE TO CALORIE RESTRICTION

Deyang Yu, University of Wisconsin – Madison

### B07: RADIATION IMPAIRS AFFERENT ARTERIOLAR ENDOTHELIAL FUNCTIONS IN MALE AND FEMALE RATS

Md Abdul Hye Khan, PhD, Medical College of Wisconsin

### B08: Arsenic disturbs prostate stem-progenitor homeostasis by activation of nrf2 pathway

Lishi Xie, PhD, University of Illinois at Chicago

**3:30 – 4:30 pm** Streeterville

## Oral Abstract Session III

Moderator: Vijay Shivaswamy, MBBS, MS, Associate Professor, University of Nebraska Medical Center

### B09: BLOOD GROUP A PREDICTS ENTEROTOXIGENIC ESCHERICHIA COLI SEVERITY

Frederick M. Kuhlmann, MD, Washington University in St. Louis

### B10: OBESITY AND HYPERTENSION MODULATE MITOCHONDRIAL DYNAMICS, CONTRIBUTING TO RENAL INJURY IN SWINE

Arash Aghajani Nargesi, MD, Mayo Clinic

### B11: ILC2S AND EOSINOPHILS PROTECT AGAINST STAPHYLOCOCCUS AUREUS-INDUCED SEPSIS

Philip A. Verhoef, MD, PhD, University of Chicago

**4:30 – 6:00 pm** Pre/Lincoln Park

## Poster Session C & Closing Reception



# FEATURED PRESENTERS

## MWAFMR Career Development Workshop



**Catherine DeAngelis, MD**  
*Johns Hopkins University School of Medicine*

Dr. Catherine D. DeAngelis is University Distinguished Service Professor Emerita, professor of pediatrics emerita at the Johns Hopkins University School of Medicine and professor of health policy and management at the Johns Hopkins

Bloomberg School of Public Health, and editor in chief emerita of JAMA, The Journal of the American Medical Association (2000 to 2011); she was the first woman editor-and-chief of the journal. She received her medical degree from the University of Pittsburgh's School of Medicine, her master's degree in public health from the Harvard Graduate School of Public Health (Health Services Administration), and completed her pediatric specialty training at The Johns Hopkins Hospital. Dr. DeAngelis also has been awarded seven honorary doctorate degrees and received numerous awards for humanitarianism and medical excellence, including the Ronald McDonald Award of Medical Excellence (\$100,000 donation made to the Johns Hopkins Child Life Program), the Catcher in the Rye Award for Humanitarianism by the American Academy of Child and Adolescent Psychiatry, and a lifetime achievement award by the American Association of Medical Colleges (AAMC).

Dr. DeAngelis served as the vice dean for academic affairs and faculty at the Johns Hopkins University School of Medicine from 1990 to 2000. The editor of Archives of Pediatrics & Adolescent Medicine from 1994 to 2000, she also has been a member of numerous journal editorial boards. Dr. DeAngelis has authored or edited 12 books on pediatrics, medical education and patient care, and professionalism. She has published over 250 peer-reviewed articles, chapters and editorials. Most of her recent publications have focused on professionalism and integrity in medicine, conflict of interest in medicine, women in medicine, and medical education. Her major efforts have centered on human rights especially as they relate to patients, health professionals and the poor.

Dr. DeAngelis is a former council member and current member of the Institute of Medicine (IOM) of the National Academies; a fellow of the American Association for the Advancement of Science; and a fellow of the Royal College of Physicians (U.K.). Additionally, she has served as an officer of numerous national academic societies, including as past chairman of the American Board of Pediatrics and chair of the Pediatric Accreditation Council for Residency Review Committee of the American Council on Graduate Medical Education.

She currently serves on the advisory board of the U.S. Government Accountability Office, is a member of the board of Physicians for Human Rights and serves on the board of trustees of the University of Pittsburgh.



**Michael McPhaul, MD**  
*UT Southwestern*

Michael J. McPhaul, MD is a practicing Endocrinologist in Dallas, TX. Dr. McPhaul graduated from University of Texas Health Science Center at San Antonio Medical School in 1981 and has been in practice for 36 years.

Dr. McPhaul also specializes in Internal Medicine. He currently practices at UT Southwestern Med Ctr Internal Medicine and is affiliated with Children's Medical Center of Dallas, Dallas VA Medical Center and Parkland Health & Hospital System.

## Cardiology/Pulmonary Lecture



**Roberto Machado, MD**  
*Indiana University*

Dr. Machado received his MD from the Universidade Federal do Rio Grande do Sul, Brazil. He completed residency and chief residency in internal medicine at the University of Miami, pulmonary and critical care medicine

fellowship at the Cleveland Clinic Foundation and post-doctoral research training at the National Heart Lung and Blood Institute.

Dr. Machado's laboratory focuses on the study of pulmonary hypertension and pulmonary complications of sickle cell disease. His research has contributed to the discovery of pulmonary hypertension as a major risk factor for death in adult patients with sickle cell disease. Using human oligonucleotide microarray platforms, genetics and bioinformatics tools, he currently seeks to develop novel diagnostic, prognostic and therapeutic biomarkers for patients with complex disorders such as pulmonary hypertension. His efforts have led to the identification of novel genetic modifiers and biochemical and molecular biomarkers in sickle cell disease and pulmonary hypertension. His laboratory also utilizes animal models of sickle cell disease and pulmonary hypertension to investigate the role of the pulmonary vascular endothelium in regulating vasomotor tone, permeability, vascular proliferation and apoptosis. By combining these approaches, Dr. Machado seeks to gain novel insights into the pathogenesis and treatment of these complex lung disorders, which would hopefully lead to an improvement in the morbidity and mortality associated with sickle cell disease and pulmonary hypertension.

Dr. Machado's clinical interests include pulmonary hypertension and pulmonary complications of sickle cell disease.

# FEATURED PRESENTERS

## 58th Annual Max Miller Lecture in Diabetes Research



**Elizabeth Parks, PhD**  
*University of Missouri*

Research Interests: Cephalic phase of food intake and sensory effects on absorption of lipids; Effect of dietary macronutrients on the development of obesity-related disorders; Non-alcoholic hepatic steatosis, liver inflammation, and postprandial metabolism; Modeling of non-steady state kinetics in metabolism

Position: Professor, Nutrition and Exercise Physiology; Professor, Division of Gastroenterology and Hepatology; Associate Director, Clinical Research Center, Institute for Clinical Translational Science.



**Emily K. Sims, MD**  
*Indiana University*

Dr. Sims is a physician scientist at the Indiana University Center for Diabetes and Metabolic Diseases. She completed general pediatrics residency and pediatric endocrinology fellowship at IU, and joined the faculty in 2013.

Her research program is focused on identification of mechanisms and biomarkers of intrinsic beta dysfunction contributing to development of different forms of diabetes.



**Jacob Haus, PhD**  
*University of Michigan*

Dr. Jacob M. Haus, Ph.D. is an Associate Professor in the School of Kinesiology at the University of Michigan. Originally from Youngstown, OH he attended Youngstown State University and then performed his graduate

work at Ball State University in Human Bioenergetics and Biotechnology. His postdoc was at the Cleveland Clinic and Case Western Reserve University under Dr. John Kirwan where he specialized in Diabetes Obesity and Metabolism. Prior to moving to UM he was here in Chicago at UIC for 6 years in Kinesiology and Nutrition as well as the Division of Endocrinology and Metabolism. Dr. Haus has 50 publications and is currently supported by NIH R01. He has also received support from the ADA, AHA and the CSCTR.

The focus of his research has centered on strategies for the prevention and treatment of complications and co-morbidities associated with obesity, insulin resistance and diabetes. He places special emphasis on integrative physiology and how intensive lifestyle interventions

elicit positive metabolic and molecular changes in these metabolic conditions. His education and training have focused primarily on bioenergetics and applied human metabolic research, as well as biotechnology. He received extensive and focused training in methods of human metabolic research such as stable isotope tracers, magnetic resonance spectroscopy, hyperinsulinemic-euglycemic clamps, skeletal muscle biopsy, tissue microdialysis and methods of exercise testing from renowned leaders in these areas. In addition, he uses primary human skeletal muscle cell cultures, and tissue/blood samples acquired from research participants, to investigate molecular mechanisms related to clinical observations.

## AFMR Keynote



**Florence Rothenberg, MD**  
*University of Cincinnati*

Dr. Florence Rothenberg is a cardiologist in Cincinnati, Ohio and is affiliated with multiple hospitals in the area, including Cincinnati Veterans Affairs Medical Center and University of Cincinnati Medical Center. She

received her medical degree from University of Texas Southwestern Medical School and has been in practice for more than 20 years. Dr. Rothenberg accepts several types of health insurance, listed below. She is one of 18 doctors at Cincinnati Veterans Affairs Medical Center and one of 25 at University of Cincinnati Medical Center who specialize in Cardiovascular Disease.

## Department Chair Session I University of Pittsburgh



**Mark Gladwin, MD, Chair**

Mark Gladwin received his M.D. from the University of Miami Honors Program in Medical Education in 1991. After completing his internship and chief residency at the Oregon Health Sciences University in Portland, Ore., he joined the NIH in 1995 as a critical care fellow in the Clinical Center. After completion of a clinical fellowship in pulmonary medicine at the University of Washington in Seattle, he returned for a research fellowship at the Critical Care Medicine Department, CC, under the mentorship of James Shelhamer, Frederick Ognibene, Alan Schechter, and Richard Cannon. He later served as the Chief of the Pulmonary and Vascular Medicine Branch within the NHLBI, NIH. In August of 2008, Dr. Gladwin became Chief of the Pulmonary, Allergy and Critical Care Medicine Division at the University Of Pittsburgh School Of Medicine and the Director of the newly formed Vascular Medicine Institute (now the Pittsburgh Heart, Lung, Blood, and Vascular Medicine Institute).

# FEATURED PRESENTERS



## **Mehret Birru-Talabi, MD, PhD**

Dr. Talabi is an Assistant Professor of Medicine in the Division of Rheumatology and Clinical Immunology at the University of Pittsburgh. She earned her medical degree and Ph.D. from the University of Pittsburgh, and completed

internship, residency, and Rheumatology fellowship at UPMC. She is currently funded through a Patient-centered Outcome Research K12 mechanism through the University of Pittsburgh.



## **Jessica Merlin, MD, PhD, MBA**

Dr. Merlin's research focuses on chronic pain in people living with HIV (PLWH), and more generally, individuals with comorbid mental illness and addiction. She currently holds a K23 career development award from the National Institute of Mental

Health to develop and pilot test a behavioral intervention for chronic pain in PLWH, and earned a PhD in health behavior in 2017 to supplement these pursuits. She is the PI of the first large-scale national study of chronic pain epidemiology in PLWH, and also leads projects relating to roles of pain sensitivity and inflammation in chronic pain pathogenesis among PLWH and management approaches to concerning behaviors that arise among individuals on long-term opioid therapy. Dr. Merlin's clinical interest is in chronic pain in people living with HIV (PLWH) and other medically and psychiatrically complex patient populations. While on faculty at the University of Alabama at Birmingham (UAB) from 2011-2017, she developed and ran the HIV Pain/Palliative Care clinic, which was embedded UAB's HIV Patient Centered Medical Home. This multidisciplinary clinic included a nurse practitioner, nurse, social worker, physical therapist, and pharmacist, and a total of 24 palliative care fellows in chronic pain care during her tenure. At Pitt, she will lead the pain clinic at the Pittsburgh AIDS Center for Treatment (PACT) started by Dr. Bob Arnold. Dr. Merlin also attends for one month per year on the inpatient general medicine service.

Dr. Merlin lectures to medical students, residents, fellows, and other physicians about chronic pain in primary care, and in patients with medical and psychiatric comorbidities. She is a frequent lecturer at the International AIDS Society-USA, AIDS Education and Training Center, and Ryan White conferences around the US.



## **Jason Rose, MD, PhD**

Jason Rose is an Assistant Professor of Medicine at the University of Pittsburgh School of Medicine. His training included a biomedical engineering degree from University of Michigan, MD from Wayne State Internal

Medicine at Duke, and Pulmonary & Critical Care Fellowship at University of Pittsburgh. He obtained an MBA from Carnegie Mellon University. His research focuses on the pathophysiology of CO poisoning and developing an antidotal therapy for CO poisoning.

## **Department Chair Session II Northwestern University**



## **Douglas Vaughan, MD, Chair**

Dr. Vaughan's primary clinical interest is in adult cardiovascular disease. His practice has focused on the management and treatment of patients with coronary artery disease. He is also interested in the diagnosis and management of arterial thrombosis.

Dr. Vaughan's research interests align with these clinical interests. His primary investigative focus is and has been on the mammalian plasminogen activator system and the role this system plays in cardiovascular disease. They apply a multidisciplinary approach in this effort, and utilize molecular and cellular approaches, as well as animal and human studies.



## **Panagiotis Flevaris, MD, PhD**

PhD: University of Illinois at Chicago College of Medicine, Pharmacology (2008)

MD: University of Illinois at Chicago College of Medicine (2010)

Residency: Northwestern University, McGaw Medical Center, Internal

Medicine (2012)

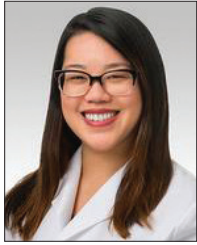
Fellowship: Northwestern University, McGaw Medical Center, Cardiology (2017)

Board certified cardiologist and internist with doctoral training in pharmacology, 13 years of basic science and clinical experience. Interested in mechanistic basic science and translational clinical research in cardiovascular disease.

Scientific and clinical background in thrombosis, platelet biology, coronary artery disease, cardiac fibrosis, heart failure, and arrhythmias. Current certifications in Cardiovascular Disease (ABIM, 2016), Internal Medicine (ABIM, 2013) and Echocardiography (ASE, 2014). Expertise in integrin biology, drug discovery, molecular interactions, cell signaling, proteases, and tyrosine kinases.



# FEATURED PRESENTERS



**Jennie Lin, MD, MTR**

Dr. Lin is building a research program at Northwestern dedicated to the translation of human-based discoveries to new biological insights. Areas of study include (1) the role of alternative RNA splicing events in mechanisms of lipid metabolism, atherosclerosis,

and renal fibrosis and (2) functional interrogation of the molecular mechanisms by which novel genes identified through human genetics studies impact disease phenotypes. Her group employs an integrative approach including cellular models derived from human induced pluripotent stem cells with genome-editing technology, animal-based mechanistic studies, and transcriptomic and proteomic discovery.



**Benjamin Singer, MD**

Dr. Singer is a physician-scientist specializing in pulmonary and critical care medicine as well as internal medicine. He received an MD from the Northwestern University Feinberg School of Medicine, where he also completed residency and

chief residency in internal medicine. Dr. Singer then undertook fellowship training in pulmonary and critical care medicine at the Johns Hopkins University School of Medicine.

## John B. Hickam Endowed Lecturer



**Jerry Krishnan, MD, PhD**

*University of Illinois at Chicago*

Dr. Jerry Krishnan is a physician-scientist with expertise in the care of patients with asthma, chronic obstructive pulmonary disease (COPD) and other complex obstructive lung disorders. He is an investigator in

National Institutes of Health (NIH)-sponsored research networks and is conducting studies to identify new treatment strategies for patients with asthma and COPD. Dr. Krishnan served as a member of the Pulmonary-Allergy Drugs Advisory Committee for the U.S. Food and Drug Administration (FDA) from 2007-2012 (Chair, 2011-2012). He is a member of the National Committee for Quality Assurance (NCQA) Respiratory Measurement Advisory Panel (2010- present) and the National Heart, Lung, and Blood Institute's Clinical Trials Review Committee (2012-present).

## Research Innovations



**Francis Brunicardi, MD**

*University of Toledo Medical Center*

Dr. Brunicardi received his medical degree from Rutgers University School of Medicine and trained in general surgery at SUNY-Brooklyn Health and Science Center. He was an assistant/associate Professor of Surgery at UCLA

from 1989-1995. In 1995 Dr. Brunicardi was recruited to the Baylor College of Medicine and was appointed as the DeBakey Professor and Chairman of the Michael E. DeBakey Department of Surgery in 1998. In 2011, Dr. Brunicardi rejoined the UCLA faculty as Moss Foundation Chair in Gastrointestinal and Personalized surgery and Vice Chair of the Department of Surgery at the David Geffen School of Medicine at UCLA.

In 2016, Dr. Brunicardi was recruited to the University of Toledo College of Medicine and Life Sciences as MCO Alumni Endowed Professor and Chair, Department of Surgery, and Academic Chief of Surgery for the ProMedica Health System. He is also the Cancer Program Director.

His clinical expertise includes gastrointestinal minimally invasive and robotic surgery. His research focuses on translational precision surgery for pancreatic cancer and developed several novel targeted cancer therapies using an actionable genomics platform. Dr. Brunicardi has published 284 papers and has served as the lead editor of the Schwartz's Principles of Surgery since 2000.



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- **4 Regional Meetings:** Eastern, Midwestern, Southern, Western



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### Poster Session A & Opening Reception

**A01** REDUCED HEMOLYSIS AND RELATED COMPLICATIONS IN FEMALES WITH SICKLE CELL DISEASE

*Santosh Saraf, Rasha Raslan, Xu Zhang, Binal Shah, Victor Gordeuk, University of Illinois at Chicago, IL*

**A02** PSEUDOVASCULITIS SECONDARY TO SCURVY

*Omar A Tolaymat, Florentina Berianu, Benjamin Wang, Mayo Clinic Jacksonville, FL*

**A03** THE PLATELET PHENOTYPE IN PATIENTS WITH ST-SEGMENT ELEVATION MYOCARDIAL INFARCTION IS DIFFERENT FROM NON-ST-SEGMENT ELEVATION MYOCARDIAL INFARCTION

*Scott J Cameron, Rachel A Schmidt, Preya Simlote, Fred Ling, Genaro Fernandez, Joe Gervase, David Adler, Craig Morrell, University of Rochester, NY*

**A04** HDAC INHIBITION-ENHANCED AUTOPHAGY RESCUES MITOCHONDRIAL FUNCTION DURING CARDIAC ISCHEMIA/REPERFUSION (I/R) INJURY

*Jing Yang, Jin He, Mahmoud Ismail, Sonja Tweeten, Scott Ballinger, Martin Young, Sumanth Prabhu, Jiangyi Zhang, MIN XIE, University of Alabama at Birmingham, AL*

**A05** CYANOSIS AS A LONG TERM COMPLICATION OF PULMONARY VALVE SURGICAL VALVOTOMY

*Usman A Bhatti, Maham Hayat, University of Oklahoma Health Sciences Center, OK*

**A06** RECURRENT PANCREATITIS SECONDARY TO DIFFUSE LARGE B-CELL LYMPHOMA

*Taseen A Syed, Zain Asad, Maham Hayat, Molly Disbrow, William Tierney, University of Oklahoma Health Sciences Center, OK*

**A07** EPIGASTRIC PAIN POST-PCI; A RARE ATHEROEMBOLIC COMPLICATION OF A COMMON PROCEDURE

*Ranju Kunwor, AnnMarie Canelas, MacNeal Hospital, IL*

**A08** BRIC: A RARELY CONSIDERED DIAGNOSIS IN THE EVALUATION OF INTRAHEPATIC CHOLESTASIS

*Mohamad H Khattab, Ahmed Salman, Ijlal Ali, George Salem, Javid Fazili, University of Oklahoma Health Sciences Center, OK*

**A09** RHEUMATIC HEART DISEASE IN AN ADULT PATIENT PRESENTING WITH NON-SPECIFIC SYMPTOMS

*Maiwand Mirwais<sup>1</sup>, Sabawoon Mirwais<sup>2</sup>, Laura Fay<sup>1</sup>*

*<sup>1</sup>University of Oklahoma Health Sciences Center, OK; <sup>2</sup>University of Health Sciences*

**A10** BRAIN GRAY MATTER VOLUME DIFFERENCES IN OBESE YOUTH WITH TYPE 2 DIABETES: A PILOT STUDY

*Jacob Redel, Mark DiFrancesco, Jennifer Vannest, Mekibib Altaye, Dean Beebe, Jane Khoury, Lawrence Dolan, Greg Lee, Amy S Shah, Cincinnati Children's Hospital Medical Center, OH*

**A11** HYPOTHALAMIC MTORC2 REGULATES METABOLIC HOMEOSTASIS

*Jacqueline A Brinkman<sup>1</sup>, Sebastian I Arriola Apel<sup>2</sup>, Mark Morrison<sup>1</sup>, Jay Tomaszewicz<sup>1</sup>, Amy Lin<sup>2</sup>, Emma Meyer<sup>2</sup>, Dudley W Lamming<sup>1</sup>*

*<sup>1</sup>Department of Medicine, University of Wisconsin, WI; <sup>2</sup>Department of Dairy Science, University of Wisconsin, WI*

**A12** POLYCYSTIC KIDNEY DISEASE (PKD) IS ASSOCIATED WITH INCREASED NOX4 ACTIVITY AND FUMARATE LEVELS

*Ivan Vuckovic, Song Zhang, Jennifer Arroyo, Petras Dzeja, Peter Harris, Slobodan Macura, Vicente Torres, Maria V Irazabal, Mayo Clinic, MN*

**A13** DNA METHYLATION AS A REGULATOR OF THE NEONATAL CD4+ T CELL RESPONSE TO PNEUMONIA

*Benjamin Singer<sup>1</sup>, Kathryn Helmin<sup>1</sup>, Shang-Yang Chen<sup>1</sup>, Kishore Anekalla<sup>1</sup>, Hiam Abdala-Valencia<sup>1</sup>, Roland Ndeh<sup>2</sup>, J. Michael Collaco<sup>2</sup>, Franco D'Alessio<sup>2</sup>, Sharon McGrath-Morrow<sup>2</sup>*

*<sup>1</sup>Northwestern University Feinberg School of Medicine, IL; <sup>2</sup>Johns Hopkins University, MD*

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**A14** TIMING DIFFERENCES IN DIAGNOSIS BETWEEN SOFA, QSOFA, AND SIRS CRITERIA IN A LARGE ICU COHORT

John Willoughby, Dominic Gentile, Prarthana Pradeep, Patrick Belvitch, University of Illinois at Chicago, IL

**A15** GROUP V SECRETORY PHOSPHOLIPASE A2 MEDIATES MRSA-INDUCED ENDOTHELIAL PERMEABILITY AND ACUTE LUNG INJURY

Lucille Meliton, Huashan Wang, Yulia Epshtein, Eleftheria Letsiou, Steve Dudek, University of Illinois at Chicago, IL

**A16** ABDOMINAL WALL ABSCESS SECONDARY TO CHOLECYSTOCUTANEOUS FISTULA: RARE COMPLICATION OF COMMON BILE DUCT STENT OCCLUSION

Taseen A Syed, Sultan Mahmood, Salman Nusrat, University of Oklahoma Health Sciences Center, OK

**A17** ESTRADIOL IMPEDES FIRST TRIMESTER CYTOTROPHOBLASTS FUNCTION VIA ANTI-ANGIOGENIC AND APOPTOTIC SIGNALING

Ahmed F Pantho<sup>1</sup>, Syeda H Afroze<sup>1</sup>, Nathan Drever<sup>2</sup>, David C Zawieja<sup>3</sup>, Thomas J Kuehl<sup>1</sup>, Mohammad N Uddin<sup>3</sup>

<sup>1</sup>University of Texas at Austin, TX; <sup>2</sup>Baylor Scott & White Health, TX; <sup>3</sup>Texas A&M University Health Science Center College of Medicine, TX

**A19** TCF19, A NOVEL DIABETES GENE, REGULATES STRESS RESPONSE PATHWAYS IN THE PANCREATIC  $\beta$ -CELL

Joseph T Blumer<sup>1</sup>, Grace H Yang<sup>2</sup>, Danielle A Fontaine<sup>1</sup>, Jee Young Han<sup>1</sup>, Avtar Roopra<sup>3</sup>, Dawn B Davis<sup>4</sup>

<sup>1</sup>Department of Medicine, Division of Endocrinology, University of Wisconsin - Madison, WI; <sup>2</sup>Interdepartmental Graduate Program in Nutritional Sciences, University of Wisconsin - Madison, WI; <sup>3</sup>Department of Neuroscience, University of Wisconsin-Madison, WI

**A20** EVIDENCE OF HEPATOTOXICITY FOLLOWING CHRONIC LOW DOSE EXPOSURE TO MICROCYSTIN-LR IN A MURINE MODEL OF NON-ALCOHOLIC FATTY LIVER DISEASE

Apurva C Lad, Adam Spegele, Andrew Kleinhenz, Fatimah K Khalaf, Shungang Zhang, Robin Su, Deepak Malhotra, Steven Haller, David J Kennedy, University of Toledo, OH

**A21** STEM CELL LINEAGE HIERARCHY BY KERATIN PROFILING IN NORMAL HUMAN PROSTATE EPITHELIAL CELLS AND PROSTATE CANCER

Wenyang Hu, Danping Hu, Lishi Xie, Ye Li, Gail Prins, University of Illinois at Chicago, IL

**A22** AUTOMATED MAPPING AND ANALYSIS OF STROMAL CELLS IN TUMOR MICROENVIRONMENT IN PANCREATIC ADENOCARCINOMA AND CHOLANGIOCARCINOMA USING DEEP LEARNING

Sunyoung S Lee<sup>1</sup>, Jin Cheon Kim<sup>2</sup>, Seongwon Lee<sup>3</sup>, Jillian Dolan<sup>4</sup>, Andrew Baird<sup>4</sup>

<sup>1</sup>Roswell Park Cancer Institute, NY; <sup>2</sup>Immuno AI; <sup>3</sup>National Institute for Mathematical Sciences; <sup>4</sup>University at Buffalo, School of Medicine, NY

**A23** EFFECTS OF IRON SUCROSE ON FGF23 LEVELS IN IRON-DEFICIENT PATIENTS WITH CHRONIC KIDNEY DISEASE

Rupal Mehta<sup>1</sup>, Alexander Hodakowski<sup>1</sup>, Xuan Cai<sup>1</sup>, Sanjiv Shah<sup>1</sup>, James Paparello<sup>1</sup>, Myles Wolf<sup>2</sup>, Tamara Isakova<sup>1</sup>

<sup>1</sup>Northwestern University, IL; <sup>2</sup>Duke University, NC

**A24** EFFICIENT CLEARANCE OF FREE LIGHT CHAINS USING HEMOFILTRATION

Ashraf El-Meanawy, Kayla Schwartz, Medical College of Wisconsin, WI

**A25** CARDIOTONIC STEROID SIGNALING THROUGH NA/K-ATPASE-A-1 AND SRC KINASE ENHANCE FUNCTIONAL INTERACTIONS BETWEEN IMMUNE CELLS AND ENDO/EPITHELIAL CELLS

Fatimah K Khalaf<sup>1</sup>, Amal Mohamed<sup>1</sup>, Andrew Kleinhenz<sup>1</sup>, Erin Crawford<sup>1</sup>, Jiang Tian<sup>1</sup>, Zijian Xie<sup>2</sup>, Deepak Malhotra<sup>1</sup>, Steven Haller<sup>1</sup>, David Kennedy<sup>1</sup>

<sup>1</sup>University of Toledo, OH; <sup>2</sup>Marshall University, WV



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**A26** EARLY AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE (ADPKD) PRESENTS WITH ENDOTHELIAL DYSFUNCTION THAT PRECEDES HEMODYNAMIC CHANGES AND CORRELATE WITH DISEASE SEVERITY

*Ali Kahveci, Alfonso Eirin, Lilach O. Lerman, Vicente Torres, Maria V Irazabal, Mayo Clinic, MN*

**A27** MRSA INDUCES EPIGENETIC CHANGES AND PERMEABILITY IN LUNG ENDOTHELIUM THAT ARE ATTENUATED BY FTY720 S-PHOSPHONATE

*Lichun Wang, Lucille Meliton, Eleftheria Letsiou, Huashan Wang, Steven M Dudek, Univ of Illinois at Chicago, IL*

**A28** SYNDECAN-1 MEDIATES LUNG ENDOTHELIAL CELL INFLAMMATORY SIGNALING BY INTEGRIN  $\beta 4$ .

*Yulia Epshtein, Mariam Anis, Weiguo Chen, Ting Wang, Anne E. Cress, Jeffrey R. Jacobson, University of Illinois at Chicago, IL*

**A30** ELUCIDATING THE ROLE OF PHOSPHOLIPASE D IN IDIOPATHIC PULMONARY FIBROSIS AND HOW IT MEDIATES EPITHELIAL INJURY AND APOPTOSIS

*Vidyani Suryadevara, Viswanathan Natarajan, University of Illinois, Chicago, IL*

**A31** MYXOID DEGENERATION OF ASYMPTOMATIC ACCESSORY MITRAL VALVE TISSUE WITHOUT LEFT VENTRICULAR OUTFLOW TRACT OBSTRUCTION IN AN ADULT – A CASE REPORT

*Muhammad T Bajwa, Sepideh N Asadbeigi, Aneesh Pakala, Lacy Harville, Kofi Vandyck, University of Oklahoma Health Sciences Center, OK*

**A32** THE IMPACT OF MATERNAL DEPRESSION ON FUTURE CHILD PROBLEM BEHAVIOR

*Natalie Guerrero, Ronald Gangnon, Marah Curtis, Carmen Valdez, Deborah Ehrental, Elizabeth Jacobs, University of Wisconsin, WI*

**A33** ACUTE MYOCARDIAL INFARCTION IN PATIENT WITH INFECTIVE ENDOCARDITIS OF HYPERTROPHIC OBSTRUCTIVE CARDIOMYOPATHY

*Zachary Oman, Lucas Gu, Max Bourdillon, St. Louis University Hospital, MO*

**A34** PEA ARREST IN PATIENT WITH AL CARDIAC AMYLOIDOSIS

*Zachary Oman, Lucas Gu, Max Bourdillon, St. Louis University Hospital, MO*

**A35** MYOSIN BINDING PROTEIN-H LIKE IS A NOVEL MYOFILAMENT COMPONENT IMPLICATED IN ARRHYTHMIA AND DILATED CARDIOMYOPATHY

*David Y Barefield<sup>1</sup>, Megan J Puckelwartz<sup>1</sup>, Ellis Y Kim<sup>2</sup>, Lisa D Wilsbacher<sup>1</sup>, Lisa Dellefave-Castillo<sup>1</sup>, Lorenzo L Pesce<sup>2</sup>, Elizabeth M McNally<sup>1</sup>*

*<sup>1</sup>Northwestern University, IL;<sup>2</sup>University of Chicago, IL*

**A36** HIF-1 $\alpha$  IS REQUIRED FOR FLOW-MEDIATED REGULATION OF ENDOTHELIAL CELL METABOLISM

*David Wu, Ru-Ting Huang, Matthew Krause, Robert Hamanaka, Angelo Meliton, Yun Fang, Gokhan Mutlu University of Chicago, IL*

**A37** CHILADITI'S SYNDROME ASSOCIATED WITH ACUTE COLONIC PSEUDO-OBSTRUCTION: A RADIOLOGICAL DIAGNOSIS

*Taseen A Syed, Samid Farooqui, Sultan Mahmood, Donald Kastens, University of Oklahoma Health Sciences Center, OK*

**A38** METASTATIC GASTROINTESTINAL STROMAL TUMOR DISGUISED AS PANCREATIC PSEUDOCYST

*Aneesh kuruvilla, Elizabeth Brindise, Amer Al Homssi, Neesh Anand, University of Illinois at Chicago/Christ, IL*

**A39** PRIMARY DUODENAL ADENOCARCINOMA PRESENTING AS A GIANT DUODENAL ULCER

*Muaataz Azawi, Raghav Bansal, Maher Homsy, Soohwan Chun, Mount Sinai Elmhurst, NY*

**A40** SPONTANEOUS ATRAUMATIC SPLENIC RUPTURE IN A PATIENT WITH STREPTOCOCCAL PNEUMONIA

*Maiwand Mirwais<sup>1</sup>, Sabawoon Mirwais<sup>2</sup>, Ahmed Awab<sup>1</sup>*

*<sup>1</sup>University of Oklahoma Health Sciences Center, OK;<sup>2</sup>University of Health Sciences*

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**A41** CHOLECYSTOKININ PROTECTS INS-1 CELLS AND HUMAN ISLETS FROM CYTOKINE-MEDIATED APOPTOSIS

*Hung Tae Kim, Araldo H De Souza, Carly R Kibbe, Jeeyoung Han, Amelia K Linnemann, Dawn B Davis  
University of Wisconsin - Madison, WI*

**A42** A CURIOUS CASE OF KANSAS LADY

*Usman A Bhatti, Maham A Hayat, University of Oklahoma Health Sciences Center, OK*

**A43** GHRELIN RECEPTOR ANTAGONIST [D-LYS-3] GHRP-6 INHIBITS CHRONIC ALCOHOL INDUCED HEPATIC STEATOSIS

*Karuna Rasineni, University of Nebraska Medical Center, NE*

**A44** MATRIX STIFFNESS PROMOTES ADIPOCYTE THERMOGENESIS

*Maximilian McCann, Michael Mkrtschjan, Victoria Gil, Brenda Russell, Chong Wee Liew, University of Illinois at Chicago, IL*

**A45** EXAMINING SPATIAL ACCESSIBILITY TO SCREENING COLONOSCOPY AND DISPARITIES IN COLORECTAL CANCER SCREENING IN CHICAGO

*Keith Naylor, Karen Kim, University of Chicago, IL*

**A46** DETERMINANTS OF OUTCOMES AFTER PERCUTANEOUS ANGIOPLASTY OF HEMODIALYSIS FISTULAS AND GRAFTS

*Malgorzata A Kochanek, Rita McGill, Rakesh Navuluri, Mary Hammes, University of Chicago, IL*

**A47** MECHANOTRANSDUCTION IN ALVEOLAR MACROPHAGES CONTRIBUTES TO LUNG INJURY BY MODULATING PRO-INFLAMMATORY CYTOKINE SECRETION AND MIR-146A EXPRESSION

*Christopher Bobba, Megan Ballinger, Joshua Englert, Samir Ghadiali, The Ohio State University Wexner Medical Center, OH*

**A48** GROUP V PHOSPHOLIPASE A2 (GVPLA2) MEDIATES RESPONSES TO METHICILLIN-RESISTANT STAPH AUREUS (MRSA) IN LUNG ENDOTHELIUM

*Yu M Htwe, Lucille Meliton, Kawasaki Takeshi, Steven M Dudek, University of Illinois at Chicago, IL*

**A49** SIMVASTATIN UPREGULATES ENDOTHELIAL CELL INTEGRIN B4 EXPRESSION BY PROMOTER ACTIVATION AND EPIGENETIC MODIFICATION

*Weiguo Chen, Venkateswan Elagovan, Jeffrey R Jacobson, University of Illinois at Chicago, IL*

**A50** CORTACTIN DEFICIENCY ALTERS LUNG MECHANICS DURING INFLAMMATORY LUNG INJURY

*Patrick Belvitch<sup>1</sup>, Huashan Wang<sup>1</sup>, Nirmal Desai<sup>1</sup>, Regaina Demeritte<sup>1</sup>, Joe GN Garcia<sup>2</sup>, Steven M Dudek<sup>1</sup>*

*<sup>1</sup>University of Illinois at Chicago, IL,<sup>2</sup>University of Arizona, AZ*

**A51** DYSREGULATED METABOLISM IN INTERSTITIAL MACROPHAGES MAY CONTRIBUTE TO THROMBOSPONDIN-1 MEDIATED HYPOXIC PULMONARY HYPERTENSION

*Rahul Kumar, Claudia Mickael, Biruk Kassa, Linda Sanders, Daniel Hernandez-Saavedra, Dan Koyanagi, Rubin Tuder, Brian Graham, University of Colorado, CO*

**A52** INHIBITION OF 14-3-3 PROTEINS PROVIDES A NOVEL ANTIFUNGAL STRATEGY

*Jenna McGowan, Jacqueline Kratch, Saurabh Chattopadhyay, Bina Joe, Heather R Conti, Ritu Chakravarti, University of Toledo, OH*

**A53** ASCORBIC ACID INDUCES EPIGENETIC MODULATION OF LYMPHOMA CELLS VIA TET (TEN-ELEVEN TRANSLOCATION) ACTIVITY ENHANCEMENT

*Niraj Shenoy<sup>1</sup>, Tushar Bhagal<sup>2</sup>, Amit Verma<sup>2</sup>, Thomas Witzig<sup>1</sup>*

*<sup>1</sup>Mayo Clinic Rochester, MN,<sup>2</sup>Albert Einstein College of Medicine, NY*

**A54** VINCRISTINE INDUCED UNILATERAL VOCAL CORD PARALYSIS

*Zachary Oman, Julie Friend, Lucas Gu, Max Bourdillon, St. Louis University Hospital, MO*

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**A55** ACUTE ANGIOTENSIN-(1-7) ADMINISTRATION DOES NOT LOWER BLOOD PRESSURE IN ESSENTIAL HYPERTENSION

Amy C Arnold<sup>1</sup>, Jorge E Celedonio<sup>2</sup>, Italo Biaggioni<sup>2</sup>, Alfredo Gamboa<sup>2</sup>

<sup>1</sup>Penn State College of Medicine, PA,<sup>2</sup>Vanderbilt University Medical Center, TN

**A56** UNUSUAL PRESENTATION OF SOLID PSEUDOPAPILLARY TUMOR OF THE PANCREAS WITH PYELONEPHRITIS AND WEIGHT LOSS

Michael Kalinowski, Shana Kothari, Matthew Kobeszko, Rogelio Silva, University of Illinois at Chicago - Advocate Christ Medical Center, IL

**A57** ATYPICAL BRUGADA SYNDROME PRESENTING AS PERSISTENT VENTRICULAR TACHYCARDIA STORM REFRACTORY TO MAXIMAL MEDICAL AND INTERVENTIONAL MANAGEMENT

Usman A Bhatti, Maham Hayat, University of Oklahoma Health Sciences Center, OK

**A58** POSTPARTUM INDUCED THROMBOTIC THROMBOCYTOPENIC PURPURA

Aneesh Kuruvilla, Elizabeth Brindise, Sushma Chinni, Jeffrey Ording, University of Illinois at Chicago/Christ, IL

**A59** HYPERTRIGLYCERIDEMIA LEADING TO ACUTE PANCREATITIS IN A THIRTY ONE YEAR OLD MALE

Maiwand Mirwais<sup>1</sup>, Sabawoon Mirwais<sup>2</sup>, Usman Bhutta<sup>1</sup>

<sup>1</sup>University of Oklahoma Health Sciences Center, OK,<sup>2</sup>University of Health Sciences

**A60** SEVERE REFRACTORY HYPOXEMIA; A CASE OF UNTREATED EBSTEIN'S ANOMALY IN AN ADULT

Ayesha Saeed, Rizwan A Khan, C. Erick Kaufman, University of Oklahoma, OK

**A61** PULMONARY ARTERY ANEURYSM AND PERICARDIAL EFFUSION: HEART TEAM APPROACH IN MANAGING AN UNCOMMON CASE

Mohamed Khayata, Sanjay Rajagopalan, Farshad Farouzan, University Hospitals Cleveland Medical Center, OH

**A62** DELAYED MANAGEMENT OF MICROSCOPIC POLYANGIITIS LEADS TO CATASTROPHIC DIFFUSE ALVEOLAR HEMORRHAGE AND PROLONGED ICU STAY

Laith Numan, Laith Derbas, Mohammad Tahboub, Mohannad Abu Omar, University of Missouri-Kansas City, MO

**A63** MANAGEMENT AND COMPLICATIONS OF GCK-MODY IN PREGNANCY IN WOMEN ENROLLED IN THE US MONOGENIC DIABETES REGISTRY

Laura T Dickens, Lisa R Letourneau, May Sanyoura, Siri AW Greeley, Louis H Philipson, Rochelle N. Naylor  
University of Chicago, IL

**A64** REDUNDANT EFFECTS OF INSULIN-LIKE GROWTH FACTOR-2 ON HUMAN PROSTATE STEM-PROGENITOR CELLS AMPLIFICATION

Danping Hu, Wen-Yang Hu, Lishi Xie, Ye Li, Gail Prins, University of Illinois at Chicago, IL

Friday, April 27

11:30 am – 1:00 pm

Lincoln Park

## Poster Session B & Lunch

### **B02** INTERVENTIONS TO REDUCE SEDENTARY BEHAVIOR AT WORK

*Jacquelyn Kulinski<sup>1</sup>, Ariel Bodker<sup>1</sup>, Scott Strath<sup>2</sup>, Michael Widlansky<sup>1</sup>, David Gutterman<sup>1</sup>*  
<sup>1</sup>Medical College of Wisconsin, WI;<sup>2</sup>University of Wisconsin–Milwaukee, WI

### **B03** ACUTE DECOMPENSATED HEART FAILURE SECONDARY TO METASTATIC OROPHARYNGEAL SQUAMOUS CELL CARCINOMA

*Zachary Oman, Adam Fritz, Lucas Gu, Rishi Menon, Max Bourdillon, St. Louis University Hospital, MO*

### **B04** THE EFFECT OF E-CIGARETTE VAPING ON CARDIAC FUNCTION IN MICE

*Huilin Shi, Xiaoming Fan, Jiang Tian, University of Toledo College of Medicine, OH*

### **B05** THE ROLE OF ADIPOSE MECHANISTIC TARGET OF RAPAMYCIN COMPLEX 2LONGEVITY AND THE RESPONSE TO CALORIE RESTRICTION

*Deyang Yu<sup>1</sup>, Jay L Tomasiwicz<sup>2</sup>, Shany E Yang<sup>1</sup>, Blake R Miller<sup>1</sup>, Matthew H Wakai<sup>1</sup>, Jacqueline A Brinkman<sup>1</sup>, Dawn S Sherman<sup>1</sup>, Emma L Barr<sup>1</sup>, Faizan A Syed<sup>1</sup>, Dudley L Lamming<sup>1</sup>*  
<sup>1</sup>University of Wisconsin–Madison, WI;<sup>2</sup>William S. Middleton Memorial Veterans Hospital, WI

### **B06** ONCOGENIC FACTORS REGULATE NAMPT GENE (NICOTINAMIDE PHOSPHORIBOSYLTRANSFERASE) PROMOTING LUNG NON-SMALL CELL CARCINOMA PROGRESSION

*Angela Sun, Radu Oita, Joe Garcia, University of Arizona, AZ*

### **B07** RADIATION IMPAIRS AFFERENT ARTERIOLAR ENDOTHELIAL FUNCTIONS IN MALE AND FEMALE RATS

*Md. Abdul H. Khan<sup>1</sup>, Melissa Skibba<sup>1</sup>, Brian Fish<sup>2</sup>, John D. Imig<sup>1</sup>, Eric P. Cohen<sup>3</sup>*  
<sup>1</sup>Pharmacology & Toxicology, Medical College of Wisconsin, Milwaukee, WI;<sup>2</sup>Radiation Oncology, Medical College of Wisconsin, Milwaukee, WI;<sup>3</sup>Baltimore Veterans Affairs Medical Center, Baltimore, MD

### **B08** ARSENIC DISTURBS PROSTATE STEM-PROGENITOR HOMEOSTASIS BY ACTIVATION OF NRF2 PATHWAY

*Lishi Xie, Wen-Yang Hu, Dan-Ping Hu, Ye Li, Gail S Prins, University of Illinois at Chicago, IL*

### **B09** BLOOD GROUP A PREDICTS ENTEROTOXIGENIC ESCHERICHIA COLI SEVERITY

*Frederick M Kuhlmann, Pardeep Kumar, Brunda Tumala, Tim J. Vickers, Matthew A. Ciorba, Srikanth Santhanam, Alexander Polino, Alaullah Sheikh, James M. Fleckenstein, Washington University, MO*

### **B10** OBESITY AND HYPERTENSION MODULATE MITOCHONDRIAL DYNAMICS, CONTRIBUTING TO RENAL INJURY IN SWINE

*Arash Aghajani Nargesi, Ishran M Saadiq, Hui Tang, Amir Lerman, Lilach O Lerman, Alfonso Eirin, Mayo Clinic, MN*

### **B11** ILC2S AND EOSINOPHILS PROTECT AGAINST STAPHYLOCOCCUS AUREUS-INDUCED SEPSIS

*Philip A Verhoef, Paulette Krishack, Tyler J Louviere, Anne I Sperling, University of Chicago, IL*

### **B12** MYELIN DENSITY IN THE PRIMARY MOTOR CORTEX IS RELATED TO THE DENSITY OF ASSOCIATED LOWER MOTOR NEURONS IN PATIENTS WITH AMYOTROPHIC LATERAL SCLEROSIS

*Jacqueline Chen, Volodymyr Kostenko, Erik Pioro, Bruce Trapp, Lerner Research Institute, Cleveland Clinic, OH*

### **B13** A LOOK INTO COUP-TFII ROLE IN GLUCOSE HOMOEOSTASIS AND BLOOD PRESSURE REGULATION IN DAHL SS RATS

*Usman M Ashraf, Sivarajan Kumarasamy, University of Toledo College of Medicine and Life Sciences, OH*

### **B14** SITE-2 PROTEASE AND NON-ALCOHOLIC FATTY LIVER DISEASE

*Yanchao Xu, Angelica Calderon-Rodriguez, Luke J. Engelking, University of Texas Southwestern, TX*



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**B15** MYC ONCOGENE AMPLIFICATION AND COMMONLY MUTATED GENES IN ADENOSQUAMOUS CARCINOMA OF PANCREAS

*Belinda Sun, Erik Knudsen, Agnieszka Witkiewicz, Banner-University Medical Center Tucson, AZ*

**B16** RISK OF URINARY STONES IN PATIENTS WITH CELIAC DISEASE A SYSTEMATIC REVIEW AND META-ANALYSIS

*Boonphiphop Boonpheng, Diego Hidalgo, David Ginn, East Tennessee State University, TN*

**B18** PRE-CLINICAL EVALUATION OF CINobufotalin AS A POTENTIAL ANTI-OVARIAN CANCER AGENT

*Syeda H Afroz<sup>1</sup>, Anthony B McDowell<sup>2</sup>, V O Speights<sup>2</sup>, Timothy C McCormick<sup>2</sup>, Thomas J Kueh<sup>2</sup>, David C Zawieja<sup>1</sup>, Mohammad N Uddin<sup>1</sup>*

<sup>1</sup>Texas A&M Health Science Center College of Medicine, TX;<sup>2</sup>Baylor Scott & White Health, TX

**B19** PRIMARY HUMAN TYPE I ALVEOLAR EPITHELIAL CELLS PRODUCE BIOLOGICALLY-ACTIVE NEUTROPHIL AND MONOCYTE CHEMOKINES IN RESPONSE TO BACILLUS ANTHRACIS SPORE EXPOSURE

*J. Leland Booth<sup>1</sup>, Elizabeth S Duggan<sup>1</sup>, Vineet I Patel<sup>1</sup>, Wenxin Wu<sup>1</sup>, Dennis M Burian<sup>2</sup>, David C Hutchings<sup>3</sup>, Vicky L White<sup>2</sup>, K Mark Coggeshall<sup>4</sup>, Mikhail G Dozmorov<sup>5</sup>, Jordan P Metcalf<sup>4</sup>*

<sup>1</sup>University of Oklahoma Health Sciences Center, OK;<sup>2</sup>Federal Aviation Administration, OK;<sup>3</sup>Venesco LLC, VA;<sup>4</sup>Oklahoma Medical Research Foundation, OK;<sup>5</sup>Virginia Commonwealth University, VA

**B21** UPREGULATION OF INTERFERON-REGULATED SIGNATURES IS ASSOCIATED WITH ERYTHROPOIETIC SUPPRESSION IN UGANDAN CHILDREN WITH CEREBRAL MALARIA AS COMPARED TO SEVERE MALARIAL ANEMIA

*Srinivas Nallandhigal<sup>1</sup>, Gregory S. Park<sup>2</sup>, Yen-Yi Ho<sup>2</sup>, Robert O. Opoka<sup>3</sup>, Chandy C. John<sup>1</sup>, Tuan M Tran<sup>1</sup>*

<sup>1</sup>Indiana University School of Medicine, IN;<sup>2</sup>University of Minnesota Medical School, MN;<sup>3</sup>Makerere University, Kampala, Uganda

**B22** LIPOXINS AND THEIR ROLE IN KAPOSI'S SARCOMA-ASSOCIATED HERPESVIRUS (KSHV) INFECTION AND PATHOGENESIS

*Neeam Sharma-Walia, rfums, IL*

**B23** METABOLIC SYNDROME INDUCES POST-STENOTIC KIDNEY MITOCHONDRIAL DAMAGE, MAGNIFYING RENAL INJURY AND DYSFUNCTION IN PIGS WITH RENOVASCULAR DISEASE

*Arash Aghajani Nargesi, Kyra L Jordan, Hui Tang, Amir Lerman, Lilach O Lerman, Alfonso Eirin, Mayo Clinic, MN*

**B24** VANCOMYCIN VS CEFAZOLIN AS AN INTITIAL TREATMENT OF DIALYSISASSOCIATED PERITONITIS

*Ziad AlKhouri, University of Chicago, IL*

**B25** AGING MAY ALTER URINE PH BUT NOT GI ANION ABSORPTION IN WOMEN VS MEN

*Cameron J Menezes, Elaine Worcester, Fredric Coe, University of Chicago, IL*

**B26** MYD88 REGULATES AIRWAY MUCINS MUC5AC AND MUC5B IN A MODEL OF AGRICULTURAL ORGANIC DUST EXPOSURE RELATED CHRONIC BRONCHITIS

*John Dickinson<sup>1</sup>, Jenea Sweeter<sup>1</sup>, Burton Dickey<sup>2</sup>, Jill Poole<sup>1</sup>*

<sup>1</sup>University of Nebraska Medical Center, NE;<sup>2</sup>MD Anderson Cancer Center, TX

**B27** ENDOTHELIAL GROUP V PHOSPHOLIPASE A2 (GVPLA2) MEDIATES ACUTE LUNG INJURY CAUSED BY METHYCYLLIN-RESISTANT STAPHYLOCOCCUS AUREUS (MRSA) IN MICE

*Huashan Wang, Lucille Meliton, Yulia Epshtein, Jiawang Chen, Lichun Wang, Eleftheria Letsiou, Steven Dudek University of Illinois at Chicago, IL*

**B28** PULMONARY FUNCTION TESTING AS A SCREENING TOOL TO PREDICT INTERSTITIAL LUNG DISEASE

*Shehabaldin Alqalyoobi, Aleksandar Kitich, Elyse LaFond, Saad A Choudhry, Cesar Mendez, Michael Kadoch, Justin Oldham, University of California at Davis Medical Center, CA*

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**B29** IMPAIRED HYPOXIC PULMONARY VASOCONSTRICTION CAUSE BY ACUTE LUNG INJURY IS MEDIATED THROUGH NUCLEAR FACTOR OF ACTIVATED T-CELLS IN PULMONARY ARTERY SMOOTH MUSCLE CELLS  
*Dustin R Fraidenburg, Jason X.-J. Yuan, Roberto F Machado, Steven M Dudek, University of Illinois at Chicago, IL*

**B30** IDENTIFYING BARRIERS TO PHYSICAL ACTIVITY AMONG SEDENTARY AFRICAN AMERICAN WOMEN WITH ASTHMA  
*Sharmilee Nyenhuis, Nida Shah, Lisa Sharp, University of Illinois at Chicago, IL*

**B31** A RARE COMPLICATION OF LUPUS.  
*Omar A Tolaymat, Florentina Berianu, Mayo Clinic Jacksonville, FL*

**B32** A UNIQUE PRESENTATION OF ACUTE SARCOID MONOARTHRITIS IN A PATIENT WITH SARCOIDOSIS  
*Ahmed Alsaer<sup>1</sup>, John Hiltz<sup>2</sup>, S Volkov<sup>2</sup>, Nadera Sweiss<sup>2</sup>*  
*University of Illinois at Chicago, IL/Advocate Christ Medical Center, IL;<sup>2</sup>University of Illinois at Chicago, IL*

**B33** MULTICENTRIC MYELOID SARCOMA WITH TESTICULAR INVOLVEMENT  
*Natthapon Angsubhakorn, Attaya Suvannasankha, Indiana University School of Medicine, IN*

**B35** WHEN YOUR GUARDIAN ANGEL TURNS AGAINST YOU (EXTRANODAL NATURAL KILLER CELL/T-CELL LYMPHOMA)  
*Isma N Javed, Zain Asad, Sarbajit Mukherjee, Terence Herman, University of Oklahoma Health Sciences Center, OK*

**B36** PROTEIN KINASE D1-CD36 SIGNALING IN ARTERIOLAR DIFFERENTIATION OF MICROVASCULAR ENDOTHELIAL CELLS: A LINK BETWEEN ENDOTHELIAL CELLS AND SKIN CANCER STEM CELLS FOR TUMOR PROGRESSION?  
*Nicholas Barnekow<sup>1</sup>, Rong Yuan<sup>1</sup>, Patrick Moran<sup>2</sup>, Bin Ren<sup>2</sup>*  
*<sup>1</sup>Blood Center of Wisconsin, WI;<sup>2</sup>Medical College of Wisconsin, WI*

**B37** ROLE OF VITAMIN D INSUFFICIENCY AND/OR DEFICIENCY IN PATIENTS WITH HEART FAILURE AND REDUCED EJECTION FRACTION  
*Fadi Ghrair<sup>1</sup>, Hassan Alkhawam<sup>2</sup>, Maher Homs<sup>1</sup>, Priya Bansal<sup>1</sup>, Muneer Kaba<sup>1</sup>, Amir Sara<sup>1</sup>, Muaataz Azawi<sup>1</sup>, Timothy Vittorio<sup>3</sup>*  
*<sup>1</sup>Icahn School of Medicine at Mount Sinai (Elmhurst), NY;<sup>2</sup>Saint Louis University School of Medicine, MO;<sup>3</sup>Bronx Lebanon Hospital Center, NY*

**B38** CORONARY ARTERY DISEASE AND THE IMPACT OF AUTOIMMUNE DISEASES (RA, PSORIASIS AND SLE) ON THE SEVERITY, TYPE OF PRESENTATION AND PREVALENCE: A RETROSPECTIVE ANALYSIS  
*Fadi Ghrair<sup>1</sup>, Hassan Alkhawam<sup>2</sup>, Priya Bansal<sup>1</sup>, Amir Sara<sup>3</sup>, Muneer Kaba<sup>4</sup>, Maher Homs<sup>1</sup>, Sara Shahid<sup>1</sup>, Timothy J. Vittorio<sup>5</sup>*  
*<sup>1</sup>Icahn School of Medicine at Mount Sinai (Elmhurst), NY;<sup>2</sup>Saint Louis University, MO;<sup>3</sup>Wayne State University–Detroit Medical Center, MI;<sup>4</sup>NY;<sup>5</sup>Bronx Lebanon Hospital, NY*

**B39** EVALUATION OF THE EXTENT OF CORONARY ARTERY DISEASE AMONG PATIENTS WITH SOLID CANCER: A RETROSPECTIVE ANALYSIS  
*Fadi Ghrair<sup>1</sup>, Hassan Alkhawam<sup>2</sup>, Amir Sara<sup>3</sup>, Muaataz Azawi<sup>1</sup>, Maher Homs<sup>1</sup>, Priya Bansal<sup>1</sup>, Darshan Patel<sup>1</sup>, Sara Shahid<sup>1</sup>, Muneer Kaba<sup>4</sup>, Timothy J. Vittorio<sup>5</sup>*  
*<sup>1</sup>Icahn School of Medicine at Mount Sinai (Elmhurst), NY;<sup>2</sup>Saint Louis University, MO;<sup>3</sup>Wayne State University–Detroit Medical Center, MI;<sup>4</sup>NY;<sup>5</sup>Bronx–Lebanon Hospital Center, NY*

**B40** UTILIZATION OF ROUTINE LABS TO DETERMINE LENGTH OF STAY, MORTALITY AND READMISSION RATES FOR PATIENTS ADMITTED FOR ACUTE HEART FAILURE SYNDROME  
*Darshan Patel, Priya Bansal, Fadi Ghrair, Maher Homs, Lawrence Reich*  
*Icahn School of Medicine at Mount Sinai (Elmhurst) Program, NY*

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**B41** VALIDITY OF THE ALIVECOR SOFTWARE IN DETECTING PAROXYSMAL ATRIAL FIBRILLATION: A SUB STUDY OF THE INTERMITTENT VS CONTINUOUS ANTICOAGULATION THERAPY IN PATIENTS WITH ATRIAL FIBRILLATION (ICARE-AF) PILOT STUDY

Maiwand Mirwais<sup>1</sup>, Jared Hooker<sup>1</sup>, Joel Kardokus<sup>1</sup>, Sabawoon Mirwais<sup>2</sup>, Stavros Stavrakis<sup>1</sup>

<sup>1</sup>University of Oklahoma Health Sciences Center, OK; <sup>2</sup>University of Health Sciences

**B42** MENTAL STRESS-INDUCED MYOCARDIAL ISCHEMIA: A SYSTEMATIC REVIEW OF THE LITERATURE

Nicole M Pristera, Zainab Samad, Duke University Hospital, NC

**B43** A CASE OF CLOZAPINE INDUCED MYOCARDITIS

Zachary Oman, Lucas Gu, Max Bourdillon, St. Louis University Hospital, MO

**B44** NEW ONSET CONGESTIVE HEART FAILURE WITH POLYCYTHEMIA VERA

Laith Derbas, Laith Numan, Kavelin Rumalla, Ahmed Elkaryoni, Anweshan Samanta, Paramdeep Baweja, University of Missouri–Kansas City, MO

**B45** ADDISON'S DISEASE IN A PATIENT WITH NECK TRAUMA

Anusha Lekshminarayanan, Naila Goldenberg, Jewish Hospital Mercy Health, OH

**B46** IMMUNE THROMBOCYTOPENIC PURPURA- NOT NECESSARILY A DIAGNOSIS OF EXCLUSION

Muhammad A Sardar, Ahmad Sharayah, Monmouth Medical Center, NJ

**B47** ALPHAB-CRYSTALLIN EXPRESSION IN BREAST CANCER CORRELATES WITH POOR CLINICAL OUTCOMES

Gisele Toumi, Zhanhai Li, Emmanuel Sampene, Christopher Flynn, Vincent L Cryns

University of Wisconsin School of Medicine and Public Health, WI

**B48** THE TAXONOMIC COMPOSITION OF THE GUT MICROBIOME IS ALTERED BY AND AFFECTS THE METABOLIC RESPONSE TO DIETARY BRANCHED-CHAIN AMINO ACIDS

Heidi Pak, Nicole Cummings, Colin Boyle, Deyang Yu, Shany Yang, Blake Miller, Jay Tomasiewicz, Madalyn Walter, Dudley Lamming

University of Wisconsin–Madison, WI

**B49** DECREASED CONSUMPTION OF SPECIFIC MACRONUTRIENTS PROMOTES METABOLIC HEALTH AND LONGEVITY

Nicole E Cummings, Elizabeth Konon, Colin Boyle, Alexis Mitchell, Megan Finke, Abigail Radcliff, Elizabeth Williams, Allison Rodgers, Timothy Hacker, Dudley Lamming, University of Wisconsin–Madison, WI

**B50** A CASE OF DRUG INDUCED PANCREATITIS

Zachary Oman, Lucas Gu, Max Bourdillon, St. Louis University Hospital, MO

**B51** EXPRESSION OF THE HEPATOCYTE ASIALOGLYCOPROTEIN RECEPTOR IS DECREASED IN HUMAN CIRRHOTIC LIVERS OF DIFFERENT ETIOLOGIES

Daniel D Penrice<sup>1</sup>, Rinjal Brahmhatt<sup>1</sup>, Benjamin Roberts<sup>2</sup>, Steven Weinman<sup>2</sup>, Benita McVicker<sup>1</sup>, Paul Thomes<sup>1</sup>, Carol Casey<sup>1</sup>

<sup>1</sup>University of Nebraska Medical Center, NE; <sup>2</sup>University of Kansas Medical Center Liver Center, KS

**B52** SELECTED HYDROXYEICOSATETRAENOIC ACIDS IN PATIENTS WITH PANCREATIC CANCER: A PRELIMINARY REPORT

Wojciech Blogowski<sup>1</sup>, Tomasz Bodnarczuk<sup>2</sup>, Anna Deskur<sup>2</sup>, Katarzyna Dolegowska<sup>2</sup>, Barbara Dolegowska<sup>2</sup>, Teresa Starzynska<sup>2</sup>

<sup>1</sup>University of Zielona Gora; <sup>2</sup>Pomeranian Medical University, Poland

**B53** ALTERATIONS IN THE GASTRIC LANDSCAPE AND THEIR EFFECTS ON HELICOBACTER PYLORI PATHOGENESIS

Jose B Saenz, Nancy Vargas, Jason C. Mills, Washington University School of Medicine, MO

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**B54** THE EFFECTIVENESS OF NANOFORMULATED COPPER/ZINC SUPEROXIDE DISMUTASE IN AMELIORATING ETHANOL AND/OR FREE FATTY ACID-INDUCED LIVER INJURY

*Saraswathi Viswanathan, Gopalakrishnan Natarajan, Curtis Perriotte-Olson, Carol Casey, Terrence Donohue, Alexander Kabanov, Cyrus Desouza, University of Nebraska Medical Center, NE*

**B55** NOVEL DRUG BASED THERAPY FOR TREATMENT OF VASCULAR LEAKAGE

*Xinyan Qu, Ben Hitchinson, Avik Banerjee, Chongxu Zhang, Vadim Gaponenko, Yulia Komarova University of Illinois at Chicago, IL*

**B56** CROSSING A BRIDGE TO HEARTBREAK

*Huiwen Chen, Ayham Alagha, Parin Mehta, West Suburban Medical Center, IL*

**B57** LIQUID BIOPSY DISTINGUISHES RECURRENT GBM FROM RADIATION NECROSIS IN PERIPHERAL BLOOD OF PATIENTS WITH GBM.

*David C Soler, Anrew B Young, Kevin D Cooper, Amber Kerstetter-Fogle, Jill S. Barnholtz-Sloan, Haley Gittleman, Thomas S McCormick, Andrew E Sloan, Case Western Reserve University, OH*

**B58** PAROXYSMAL AUTONOMIC INSTABILITY AND DYSTONIA FOLLOWING A MOTOR VEHICLE ACCIDENT

*Matthew V Purbaugh, Marco A Gonzalez-Castellon, Krishna M Galla, University of Nebraska Medical Center, NE*

**B59** ANTICOAGULATION FOR ATRIAL FIBRILLATION FOLLOWING GI BLEED IN PATIENTS WITH HIGH HASBLED AND CHADS<sub>2</sub>VASC SCORES

*Nasreen Shaikh, Muhammad A Sardar, Muhammad Azharuddin, Samrah Zaigham, Sai Koyoda, Jacob Aasems, Doantrang Du Monmouth Medical Center, NJ*

**B60** GALECTIN-3 AS A RISK PREDICTOR OF SUDDEN CARDIAC ARREST IN ISCHEMIC CARDIOMYOPATHY

*Umesh Sharma, Wassim Mosleh, Zaid Al-Jebaje, Kevin Frodey, Sahoor Khan, John Elibol, Tanvi Shah, Charl Khalil, Milind Chaudhari, John Canty, University at Buffalo, NY*

**B61** ST-ELEVATION MYOCARDIAL INFARCTION LEADING TO EMPHYSEMATOUS CHOLECYSTITIS AND SEPTIC SHOCK

*Zachary Oman, Krystyna Majkut, Tarek Ajam, Ammar Nasir, Elsayed Abo-Salem, St. Louis University Hospital, MO*

**B62** LIFE THREATENING: CARDIAC TAMPONADE FROM ACUTE BLEEDING SECONDARY TO APIXABAN

*Sardar H Ijaz, Taseen Syed, Zain U Asad, Aneesh V Pakala, Oklahoma University of Health Sciences Center, OK*

**B63** PRIMARY GASTRIC HODGKIN'S LYMPHOMA

*Maher Homsy, Soohwan Chun, Ishan Patel, Fadi Ghrair, Raghav Bansal, Ichan school of Medicine at Elmhurst Hospital, NY*

**B64** RETROPERITONEAL FIBROSIS- AN UNCOMMON CAUSE OF ACUTE RENAL FAILURE

*Aneesh Kuruvilla, Tenisha Mckaskil, Irfan Siddiqui, Ghulam Murtaza, University of Illinois at Chicago/Christ, IL*

4:30 – 6:00 pm

Wheaton

## Poster Session C & Closing Reception

**C01** A PACEMAKER THAT WAS AVOIDED

*Husnain Waseem, Arsalan Hashmi, Neehal Wali, Daniel Rodriguez, Maimonides Medical Center, NY*

**C03** CULTURE NEGATIVE NEUTROCYTIC ASCITES FOLLOWING A URINARY TRACT INFECTION: A CASE REPORT

*Onix C Garib, Marcial Torres, Hospital Universitarion Ramon Ruiz Arnau, PR*



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**C04** SERUM METABOLIC PROFILES PROVIDE NEW INSIGHT ON THE EFFECT OF ALCOHOL AND METABOLIC PATHWAYS IN HUMANS

AdePeju Oshodi<sup>1</sup>, Kristina Chandler<sup>1</sup>, Praveen Kusumanch<sup>2</sup>, Ruth Anne Ross<sup>2</sup>, Suthat Liangpunsaku<sup>3</sup>

<sup>1</sup>Indiana University School of Medicine and Roudebush Veterans Administration Medical Center, IN;<sup>2</sup>Indiana University School of Medicine, IN;<sup>3</sup>Indiana University School of Medicine and Roudebush Veterans Administration Medical Center, IN

**C05** METASTATIC SARCOMATOID CARCINOMA TO THE HEART, PANCREAS, AND UPPER EXTREMITY

Zachary Oman, Lucas Gu, Max Bourdillon, Tarek Ajam, St. Louis University Hospital, MO

**C06** RISK FACTORS FOR CLOSTRIDIUM DIFFICILE INFECTION AMONG PEDIATRIC INPATIENTS: A META-ANALYSIS

Scott Anjewierden<sup>1</sup>, Zheyi Han<sup>1</sup>, Abhishek Deshpande<sup>2</sup>

<sup>1</sup>Cleveland Clinic Lerner College of Medicine at Case Western Reserve University, OH;<sup>2</sup>Medicine Institute Center for Value Based Care Research, Cleveland Clinic, OH

**C07** CHARACTERIZATION OF A LONG NON-CODING RNA, THE ANTISENSE RNA OF NA/K-ATPASE ALPHA 1

Xiaoming Fan, Huilin Shi, Jiang Tian, University of Toledo College of Medicine, OH

**C08** INTERACTIONS OF CALCIUM, VITAMIN D, AND KIDNEY FUNCTION WITH PARATHYROID HORMONE LEVELS

Rita McGill<sup>1</sup>, Elaine Worcester<sup>1</sup>, Fredric Coe<sup>1</sup>, Sangeet Dhillon-Jhattu<sup>1</sup>, Jennifer Ennis<sup>1</sup>

<sup>1</sup>University of Chicago, IL

**C09** GREY MATTER INJURY AFTER MODERATE CLOSED-SKULL TRAUMATIC BRAIN INJURY

Andrew D Sauerbeck, Grant Baxter, Adam Q Bauer, Terrance T Kummer, David L Brody, Washington University, MO

**C10** VARIATIONS IN MICROVESICULAR INSULIN-DEGRADING ENZYMES IN BV-2 MICROGLIAL CELLS IN RESPONSE TO CYTOKINE AND INSULIN TREATMENT

Matthew V Purbaugh<sup>1</sup>, Fredrick G Hamel<sup>2</sup>, Robert G. Bennett<sup>2</sup>, Rhonda White<sup>2</sup>

<sup>1</sup>University of Nebraska Medical Center and VA Nebraska–Western Iowa Health Care System, NE;<sup>2</sup>University of Nebraska Medical Center and VA Nebraska–Western Iowa Health Care System, NE

**C11** VENTILATOR MANAGEMENT IN ARDS: A SINGLE ACADEMIC CENTER EXPERIENCE

Ashvini Damodaran<sup>1</sup>, Jessica Kuppy<sup>1</sup>, Natalia Levytka<sup>1</sup>, Shuvani Sanyal<sup>1</sup>, Joe GN Garcia<sup>2</sup>, Steven M Dudek<sup>1</sup>, Patrick G Belvitch<sup>1</sup>

<sup>1</sup>University of Illinois at Chicago, IL;<sup>2</sup>University of Arizona, AZ

**C12** REGULATION OF IL33 NUCLEOKINE FUNCTION IN COPD

Jennifer Alexander-Brett, Ella Katz, Deborah Steinberg, Washington University, MO

**C13** EPIGLOTTITIS IN AN ADULT: A TRUE EMERGENCY FOR THE INTERNIST

Narayana Gandham, MacNeal Hospital, IL

**C14** TIME DOES NOT HEAL ALL WOUNDS

Maham Hayat, Bitar Hussein, University of Oklahoma Health Sciences Center, OK

**C15** DIABETIC KETOACIDOSIS COMPLICATED BY PSEUDOHYONATREMIA AND SEVERE DYLIPIDEMIA

Maham Hayat, Adanna Ayanambakkam, University of Oklahoma Health Sciences Center, OK

**C16** PATIENT AND SOCIETAL FACTORS ASSOCIATED WITH ACUTE DECOMPENSATED HEART FAILURE ADMISSION

Kristina M Munoz<sup>1</sup>, Chakradhar Velagapudi<sup>2</sup>, Sonja Brune<sup>2</sup>, Anand Prasad<sup>2</sup>, Shweta Bansal<sup>2</sup>

<sup>1</sup>Central Michigan University College of Medicine, MI;<sup>2</sup>University of Texas Health San Antonio, TX

**C17** ASSESSING COST-EFFECTIVENESS AND SOCIAL JUSTICE IN PHARMACOGENOMIC AND PUBLIC HEALTH APPROACHES TO THREE MAJOR CANCER GROUPS

Stephen M Modell, Sharon L.R. Kardia, University of Michigan, MI

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**C18** HIGH RATES AND LOW DOCUMENTATION OF HOSPITAL ACQUIRED ACUTE KIDNEY INJURY

*Milda R Saunders, Tanya Rudakevych, David Meltzer, Marshall H. Chin, University of Chicago, IL*

**C19** IMPACT OF CREATION OF NATIONAL HEART VALVE DISEASE AWARENESS DAY ON PUBLIC ENGAGEMENT ONLINE AND SUBSEQUENT CREATION OF WEBSITE/IPHONE APPLICATION FOR PUBLIC AWARENESS

*Rizwan A Khan<sup>1</sup>, Omer Iftikhar<sup>2</sup>, Nicole Tran<sup>1</sup>*

<sup>1</sup>University of Oklahoma, OK;<sup>2</sup>University of Chicago (Northshore campus), IL

**C20** SIGNIFICANCE OF 30-DAY READMISSION RATE IN PATIENTS WITH CORONARY ARTERY DISEASE ADMITTED FOR CARDIAC CATHETERIZATION

*Fadi Ghrair<sup>1</sup>, Hassan Alkhawam<sup>2</sup>, Priya Bansal<sup>1</sup>, Maher Homs<sup>1</sup>, Amir Sara<sup>3</sup>, Muneer Kaba<sup>3</sup>, Timothy J. Vittorio<sup>4</sup>*

<sup>1</sup>Icahn School of Medicine at Mount Sinai (Elmhurst), NY;<sup>2</sup>Saint Louis, MO;<sup>3</sup>NY;<sup>4</sup>Bronx Lebanon, NY

**C21** URINARY LEVELS OF MARINOBUFAGENIN AND ANGIOGENIC FACTORS IN PREECLAMPTIC PATIENTS

*Afroze Midori<sup>1</sup>, John M Wages<sup>2</sup>, Nathan Drever<sup>3</sup>, David C Zawieja<sup>4</sup>, Thomas J Kuehl<sup>5</sup>, James W Larrick<sup>2</sup>, Andrew R Mendelsohn<sup>2</sup>, Mohammad N Uddin<sup>4</sup>*

<sup>1</sup>University of Texas at Austin, TX;<sup>2</sup>Panorama Research Inc., CA;<sup>3</sup>Baylor Scott & White Health, TX;<sup>4</sup>Texas A&M University Health Science Center College of Medicine, TX

**C22** CELIAC DISEASE AND RISK OF ATRIAL FIBRILLATION: A SYSTEMATIC REVIEW AND META-ANALYSIS

*Boonphiphop Boonpheng, Diego Hidalgo, David Roy Ginn, East Tennessee State University, TN*

**C23** RECURRENCE OF RENAL CELL CARCINOMA PRESENTING AS HEMATEMESIS FROM ESOPHAGEAL METASTASIS

*Taseen A Syed, Sanobar Nusrat, George Salem, Ralph Guild, University of Oklahoma Health Sciences Center, OK*

**C24** ARTERIOVENOUS METABOLOMICS REVEALS INCREASED CEREBRAL METABOLITE CONSUMPTION IN A PORCINE MODEL OF HEMORRHAGIC SHOCK

*Benjamin H Singer<sup>1</sup>, Brandon Cummings<sup>1</sup>, Brendan McCracken<sup>1</sup>, Yihan Sun<sup>2</sup>, Zyad Smiley<sup>2</sup>, Hakam Tiba<sup>1</sup>, Kathleen A Stringer<sup>2</sup>*

<sup>1</sup>University of Michigan Medical School, MI;<sup>2</sup>University of Michigan College of Pharmacy, MI

**C25** VIRTUAL TEACH-TO-GOAL™ IS EFFECTIVE FOR TEACHING RESPIRATORY INHALER SKILLS BUT MAY BE LESS EFFECTIVE AMONG OLDER PATIENTS WITH COPD

*Valerie G Press, Vineet M Arora, University of Chicago, IL*

**C26** A SINGLE INSTITUTIONS EXPERIENCE WITH GREENLIGHT PHOTOVAPORIZATION OF THE PROSTATE EVALUATION OF IMMEDIATE POSTOPERATIVE COMPLICATIONS

*Edward Capoccia, Rush University Medical Center, IL*

**C27** NSTEMI IN ABSENCE OF CORONARY ARTERY DISEASE

*Usman A Bhatti, Maham A Hayat, University of Oklahoma Health Sciences Center, OK*

**C28** LP(A) AND ATHEROSCLEROSIS

*Marc Lubitz, Vaskar Mukerji, Wright State University Boonshoft School of Medicine, OH*

**C29** POSTERIOR REVERSIBLE ENCEPHALOPATHY SYNDROME PRESENTING AS A ST-ELEVATION MYOCARDIAL INFARCTION

*Zachary Oman, Lucas Gu, Hassan Alkhawan, Max Bourdillon, Ammar Nasir, Tarek Ajam, St. Louis University Hospital, MO*

**C30** SEVERE BRADYCARDIA REQUIRING TEMPORARY PACING IN THE EMERGENCY SETTING: THE VICIOUS TRIAD OF AKI, HYPERKALEMIA AND AV NODAL BLOCKER TOXICITY

*Rizwan A Khan<sup>1</sup>, Ayesha Saeed<sup>1</sup>, Nicole Tran<sup>1</sup>*

<sup>1</sup>University of Oklahoma, OK

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**C31** USE OF MECHANICAL CIRCULATORY SUPPORT DEVICES IN TAKOTSUBO CARDIOMYOPATHY: CASE SERIES

Muhammad Bajwa, Samid Farooqui, Zain Asad, University of Oklahoma Health Sciences Center, OK

**C32** A COMPLICATED CASE OF SIGMOID COLON CARCINOMA

Salah D. Dajani, Stephen P Boghossian, Rosalind Franklin University of Medicine and Science, IL

**C33** DIARRHEA DISTURBING HORMONES: A CASE REPORT OF MYXEDEMA COMA SECONDARY TO CLOSTRIDIUM DIFFICILE COLITIS.

Maria Tariq Siddiqui, Samid Farooqui, Shouvik Chakrabarty, University of Oklahoma Health Sciences Center, OK

**C35** SPLENIC RUPTURE AFTER DIAGNOSTIC UPPER ENDOSCOPY

Shana Kothari<sup>1</sup>, Sybila Martinez<sup>1</sup>, Tarek Almourad<sup>2</sup>

<sup>1</sup>University of Illinois at Chicago/ACMC, IL,<sup>2</sup>Advocate Christ Medical Center, IL

**C36** CLOSTRIDIUM PERFRINGES CAUSING SEPTICARTHRITIS SECONDARY TO ACUTE CHOLECYSTITIS: A CASE REPORT

Yousaf Zafar<sup>1</sup>, Adnan Zafar<sup>2</sup>

<sup>1</sup>University of Missouri at Kansas City, KS,<sup>2</sup>CMH Lahore Medical College, Pakistan

**C37** THE TRANSCRIPTION FACTOR IRF-7 DIRECTLY REGULATES THE FIRST PHASE OF INTERFERON INDUCTION TO MODULATE RIG-I EXPRESSION DURING INFLUENZA A INFECTION OF HUMAN AIRWAY EPITHELIA

Wenxin Wu, Wei Zhang, Lili Tian, Jordan P Metcalf

University of Oklahoma Health Sciences Center, OK

**C39** DANGEROUSLY LOW SODIUM LEVEL: A CASE REPORT ON HYPONATREMIA

Samid M Farooqui, Taseen Syed, Usman A Bhatti, Usman Z Bhutta, University of Oklahoma Health Sciences Center, OK

**C40** PARAOXONASE REGULATION OF CARDIOTONIC STEROIDS IN CHRONIC KIDNEY DISEASE

Chrysan J Mohammed<sup>1</sup>, Bruce S Levison<sup>2</sup>, Yanmei Xi<sup>1</sup>, Pamela S Brewster<sup>1</sup>, Andrew L Kleinhenz<sup>1</sup>, Deepak Malhotra<sup>1</sup>, Richard W James<sup>3</sup>, Philip A Kabra<sup>4</sup>, Steven T Haller<sup>1</sup>, David J Kennedy<sup>1</sup>

<sup>1</sup>Department of Medicine, University of Toledo College of Medicine and Life Sciences, OH,<sup>2</sup>Department of Physiology and Pharmacology, University of Toledo College of Medicine and Life Sciences, OH,<sup>3</sup>Department of Internal Medicine, Geneva University Hospital, Geneva, Switzerland,<sup>4</sup>Salford Royal Hospital, Salford, United Kingdom.

**C41** COGNITIVE ERRORS IN THE DIAGNOSIS OF MYASTHENIA GRAVIS

Shalvinder K Seehra, University of Missouri School of Medicine, MO

**C42** DEMOGRAPHICS INCLUDING AGE, GENDER AND IMMIGRATION STATUS IMPACT ONCORONARY ARTERY DISEASE: A RETROSPECTIVE ANALYSIS

Fadi Ghrair<sup>1</sup>, Hassan Alkhawam<sup>2</sup>, <sup>1</sup>Icahn School of Medicine at Mount Sinai (Elmhurst), NY,<sup>2</sup>Saint Louis University, MO

**C43** PREVALENCE OF GASTRIC INTESTINAL METAPLASIA IN A DIVERSE COMMUNITY

Maher Homsy, Muaataz Azawi, Fadi Ghrair, Darshan Patel, Rafael Ching Companioni, Mount Sinai, NY

**C44** RAPIDLY PROGRESSIVE GLOMERULONEPHRITIS IN SYSTEMIC LUPUS ERYTHEMATOSUS, A CASE PRESENTATION

Sara Shahid, Fadi Ghrair, Ismail Omran, Icahn School of Medicine at Mount Sinai (Elmhurst), NY

**C45** SIMPLE THROMBUS OR SOMETHING MORE SINISTER: INTRACARDIAC FUNGAL BALL SECONDARY TO TOTAL PARENTERAL NUTRITION; THE ONLY REPORTED CASE

Sardar H Ijaz, Murtaza Mazhar, Usman A Bhatti, Nicole T Tran, Oklahoma University of Health Sciences Center, OK

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**C46** PULMONARY ASPERGILLOMA DISGUISED AS ACTINOMYCES INFECTION IN A HEALED TUBERCULOUS CAVITARY LESION

*Usman A Bhatti, Maham Hayat, University of Oklahoma Health Sciences Center, OK*

**C47** COMPARISON OF 3,4',7-O-TRIMETHYLQUERCETIN INDUCED APOPTOTIC SIGNALING IN THREE OVARIAN CANCER CELL LINES

*A H M Z Ashraf<sup>1</sup>, Ahmed F Pantho<sup>2</sup>, Syeda H Afroze<sup>3</sup>, David C Zawieja<sup>3</sup>, Thomas J Kuehl<sup>1</sup>, Mohammad N Uddin<sup>3</sup>*

*<sup>1</sup>Texas A&M University Central Texas, TX;<sup>2</sup>University of Texas at Austin, TX;<sup>3</sup>Texas A&M University Health Science Center College of Medicine, TX;<sup>4</sup>Baylor Scott & White Health, TX*

**C48** MULTIPLE CANCERS AFTER CHEMOTHERAPY, RADIOTHERAPY AND HORMONAL THERAPY AT UNIVERSITY OF FLORIDA: A PILOT STUDY

*Karan Seegobin, Estela Staggs, Robina Khawaja, Satish Maharaj, Shiva Gautam, Carmen Smotherman, Fauzia Rana University of Florida College of Medicine, FL*

**C49** DONOR TATTOOS ARE NOT ASSOCIATED WITH POOR OUTCOMES IN HEART TRANSPLANTATION

*Mohamed Khayata, Sadeer Al-Kindi, Guilherme Oliveira, University Hospitals Cleveland Medical Center, OH*

**C50** A FATAL CASE OF PINEAL GLAND TUMOR

*Muhammad A Sardar, Nasreen Shaikh, Chandler Patton, Monmouth Medical Center, NJ*

**C51** COAGULOPATHY COMPLICATED BY BLEEDING DISORDER

*Anusha Lekshminarayanan, Naila Goldenberg, Jewish Hospital Mercy Health, OH*

**C52** "I CANNOT WALK BECAUSE OF THE FLU": A CASE OF CEREBELLITIS POST VIRAL UPPER RESPIRATORY TRACT INFECTION

*Anam Siddiqui, Samid M Farooqui, Shouvik Chakrabarty, Department of Internal Medicine, University of Oklahoma Health Sciences Center, OK*

**C53** A CASE OF SEVERE MALARIA

*Zachary Oman, Lucas Gu, Ariana Mooradian, Max Bourdillon, St. Louis University Hospital, MO*

**C54** PERICARDITIS AS THE PRESENTING SYMPTOM OF GRAVE'S DISEASE, A RARE CASE REPORT

*Fadi Ghrair<sup>1</sup>, Sara Shahid<sup>1</sup>, Hassan Alkhawam<sup>2</sup>, Priya Bansal<sup>1</sup>, Amir Sara<sup>3</sup>, Muneer Kaba<sup>4</sup>, Maher Homsy<sup>1</sup>, Muaataz Azawi<sup>1</sup>, Timothy J. Vittorio<sup>5</sup>*

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*Rowan Karaman, Brittany Galusha, Dawn Belt Davis, Dudley W Lamming University of Wisconsin - Madison, WI*

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*Anusha Lekshminarayanan, Naila Goldenberg, Jewish Hospital Mercy Health, OH*

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*Zachary Oman, Krista Dollar, Lucas Gu, Max Bourdillon, St. Louis University Hospital, MO*



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*Friday, April 27*

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