

2011 Combined Annual Meeting  
 Marriott Chicago Downtown, Chicago, Illinois  
 April 14–15, 2011

Date	Time	Session Name	Presenter/Location
Thursday April 14, 2011			
	12:00pm–1:00pm	Editorial Board Meeting and Luncheon	Cook Room
	2:00pm–8:00pm	Registration Open	State Room
	2:00pm–4:00pm	CSCR Council Meeting	DuPage Room
	2:00pm–5:00pm	AFMR Career Development Workshop	Cook Room
	2:00pm	Introduction to Workshop Goals and Objectives	<b>Abraham Thomas, MD, MPH</b> Division Head, Endocrinology, Diabetes, Bone and Mineral Disorders Whitehouse Chair in Endocrinology Program Director, Endocrinology and Metabolism Fellowship, Henry Ford Hospital Chair, Midwestern Region, American Federation for Medical Research
	2:00pm	An Investigative Career in Academic Medicine; Understanding the Roadmap to Success, An Administrator's Perspective	<b>Mr. Joe Doty</b> Vice Chair, Administration Department of Medicine Duke University School of Medicine
	2:50pm	Question & Answer Session	
	3:00pm–3:20pm	Break	
	3:20pm	Creating Mentoring Networks to Optimize Career Development <i>Presented with an interactive component</i>	<b>Ellen Wells Seely, MD</b> Vice Chair, Faculty Development Department of Medicine Brigham and Women's Hospital
	4:50pm	Question & Answer Session	
	2:00pm–5:00pm	Poster Set-up	Avenue Ballroom
	5:00pm–7:00pm	Welcome Reception & Poster Session	Avenue Ballroom/Halstead
	6:00pm–10:00pm	CSCR Sugar Club/Midwest Metabolism Dinner	Addison Room ( <i>Marriott Ballroom</i> ) <b>Joseph Bass, MD</b> Associate Professor of Medicine at the Northwestern University Feinberg School of Medicine
	7:00pm–9:00pm	Past Presidents Reception	Halstead
Friday, April 15, 2011			
	7:30am–8:00am	Continental Breakfast	Marriott Ballroom
	8:00am–8:15am	Welcome Remarks & CSCR Business Meeting	Marriott Ballroom <b>Bradley Britigan, MD</b> <i>Chair, CSCR</i> <b>Abraham Thomas, MD, MPH</b> <i>Chair, MWAfMR</i> <b>Jordan Metcalf, MD</b> <i>Treasurer, CSCR</i>
	8:15am–9:15am	AFMR Key Note Presentation	Marriott Ballroom <b>Kenneth S. Polonsky, MD</b> Dean of the Division of the Biological Sciences and the Pritzker School of Medicine
	9:15am–9:40am	Break	Halstead

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9:40am–1:00pm	Poster Author Set-up	Avenue Ballroom
9:40am–10:40am	Department Chair Session I	Clark ( <i>Marriott Ballroom</i> ) <b>John M. Carethers, MD</b> John G. Searle Professor and Chair Department of Internal Medicine University of Michigan ■ <b>Jennifer Meddings, MD</b> Assistant Professor, Internal Medicine (General Medicine) ■ <b>Andrew Tai, MD</b> Assistant Professor, Internal Medicine (Gastroenterology) ■ <b>Tae-Hwa Chun, MD</b> Assistant Professor, Internal Medicine (Endocrinology)
9:40am–10:40am	Department Chair Session II	Addison Room ( <i>Marriott Ballroom</i> ) <b>Mark E. Anderson, MD, PhD</b> Professor of Medicine and Physiology Head, Department of Internal Medicine Associate Director, Cardiovascular Research Center University of Iowa College of Medicine ■ <b>Thomas J. Hund, PhD</b> Assistant Professor of Medicine and Biomedical Engineering ■ <b>Fayyaz Sutterwala, MD, PhD</b> Assistant Professor ■ <b>Lakshmi Durairaj, MBBS, MS</b> Assistant Professor
<b>10:45am–12:05pm</b>	<b>Oral Abstract Presentation I</b>	Clark ( <i>Marriott Ballroom</i> )
10:45am–11:05am	Cardiovascular Award winner	The Metabolic Syndrome and Advanced Subclinical Atherosclerosis as Assessed by Coronary Calcium <b>Muddassir Mehmood, MBBS</b> <i>Wright State University</i>
11:05am–11:20am		Two functional promoter variants of sphingosine-1-phosphate receptor 3 gene decrease human susceptibility to severe sepsis-associated acute lung injury <b>XiaoGuang Sun, MD, PhD</b> <i>University of Illinois at Chicago</i>
11:20am–11:40am		Rac1 interaction with Cytochrome C mediates mitochondrial H <sub>2</sub> O <sub>2</sub> production in asbestos-exposed macrophages. <b>Heather Osborn, MD</b> <i>University of Iowa Hospitals and Clinics</i>
11:40am–12:00pm	Outstanding Young Investigator Award winner	Mitochondria-Targeted Antioxidant Mito-TEMPO Prevents Angiotensin II Mediated Connexin 43 Remodeling and Sudden Cardiac Death <b>Ali Sovari, MD</b> <i>University of Illinois at Chicago</i>
<b>10:45am–12:05pm</b>	<b>Oral Abstract Presentation II</b>	Addison Room ( <i>Marriott Ballroom</i> )
10:45am–11:05am		Regulation of islet beta cell SERCA2 expression and calcium homeostasis in type 2 diabetes mellitus <b>Carmella Evans-Molina, MD, PhD</b> <i>Indiana University</i>
11:05am–11:20am		Ghrelin Suppresses Insulin Secretion and Compromises Beta-cell Function in Healthy Humans <b>Jenny Tong, MD, PhD</b> <i>University of Cincinnati</i>

11:20am–11:40am		REG3? is a Biomarker of Graft Versus Host Disease of the Gastrointestinal Tract <b>Andrew Harris, MD</b> <i>University of Michigan</i>
11:40am–12:00pm		TAZ as a regulator of mesenchymal transformation and clinical aggressiveness in gliomas <b>Katrina Salazar</b> <i>University of Texas Health Science Center Houston/MD Anderson Cancer Center</i>
12:10pm–12:40	Conflict of Interest Session <b>Ethics in Clinical Research</b>	<b>Dr. Walter Stadler</b> Fred C. Buffett Professor of Medicine & Surgery Associate Dean for Clinical Research Director, Genitourinary Program University of Chicago Medical Center <b>Carol Zuiches</b> Associate Vice President for Research, and Director, University Research Administration University of Chicago Research
12:40pm–1:10pm	Lunch	
1:10pm–2:10pm	Hickam lecture	<b>Joe G. N. Garcia, MD</b> Vice Chancellor Research University of Illinois at Chicago
2:20pm–3:50pm	Poster Session w/refreshments	<b>Avenue Ballroom</b>
4:00pm–7:00pm	MWAFMR Scholars Program	McHenry Room (3rd Floor)

*All sessions jointly presented by*

**CENTRAL SOCIETY FOR CLINICAL RESEARCH  
MIDWESTERN SECTION AMERICAN FEDERATION FOR MEDICAL RESEARCH**

**Thursday, April 15, 2011**

**12:00pm – 1:00pm**

**CSCR Editorial Board Meeting & Luncheon**

**Cook Room**

**2:00pm – 4:00pm**

**CSCR Council Meeting**

**Dupage Room**

**2:00pm – 5:00pm**

**AFMR Career Development Workshop**

**Cook Room**

***Abraham Thomas, MD, MPH, presiding***

Division Head, Endocrinology, Diabetes, Bone and Mineral Disorders

Whitehouse Chair in Endocrinology,

Program Director, Endocrinology and Metabolism Fellowship, Henry Ford Hospital  
Chair, Midwestern Region, American Federation for Medical Research

**2:00pm Introduction to Workshop Goals and Objectives**

*Abraham Thomas, MD*

- 2:00pm**    **An Investigative Career in Academic Medicine; Understanding the Roadmap to Success, an Administrator's Perspective**  
*Mr. Joe Doty*  
*Vice Chair, Administration*  
*Department of Medicine*  
*Duke University School of Medicine*
- 2:50pm**    **Question & Answer session**
- 3:00pm**    **Break**
- 3:20pm**    **Creating Mentoring Networks to Optimize Career Development**  
*Presented with an interactive component*  
*Ellen Wells Seely, MD*  
*Vice Chair, Faculty Development, Department of Medicine*  
*Brigham and Women's Hospital*
- 4:50pm**    **Question & Answer session**

**5:00pm – 7:00pm**  
**Welcome Reception & Poster Session**  
**Avenue Ballroom**

**6:00pm – 10:00pm**  
**CSCR Sugar Club/Midwest Metabolism Dinner & Max Miller Lecture in the Diabetes Research**  
*Guest Lecture by*  
**Joseph Bass, MD**  
**Associate Professor of Medicine**  
**Northwestern University Feinberg School of Medicine**

*All sessions jointly presented by*

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**MIDWESTERN SECTION AMERICAN FEDERATION FOR MEDICAL RESEARCH**

**Friday, April 15, 2011**  
**8:00 am – 9:15 am**

**Marriott Ballroom**

- 8:00**    **Welcome Remarks and CSCR Business Meeting**
- 8:15**    **MWAFMR Keynote Presentation**  
*Kenneth S. Polonsky, MD*  
*Dean of the Division of the Biological Sciences and the Pritzker School of Medicine*
- 9:15**    **Break**  
*Halstead foyer*

**9:40 am – 10:40 am**  
**Department Chair Session I**

**Clark Ballroom**

- 9:40**    **John M. Carethers, MD, presiding,**  
*John G. Searle Professor and Chair, Department of Internal Medicine*  
*University of Michigan*
- 9:45**    **Presentation TBD**  
*Jennifer Meddings, MD, Assistant Professor, Internal Medicine*

- 10:05 Presentation TBD**  
*Andrew Tai, MD, Assistant Professor, Internal Medicine*
- 10:25 Presentation TBD**  
*Tae-Hwa Chun, MD, Assistant Professor, Internal Medicine*

**9:40 am – 10:40 am**  
**Department Chair Session II**

**Addison Ballroom**

- 9:40 Mark E. Anderson, MD, PhD, presiding,**  
*Professor of Medicine and Physiology*  
*Head, Department of Internal Medicine, Associate Director, Cardiovascular Research Center*  
*University of Iowa College of Medicine*
- 9:45 Presentation TBD**  
*Thomas J. Hund, PhD, Assistant Professor of Medicine and Biomedical Engineering*
- 10:05 Presentation TBD**  
*Fayyaz Sutterwala, MD, PhD, Assistant Professor*
- 10:25 Presentation TBD**  
*Lakshmi Durairaj, MBBS, MS, Assistant Professor*

**10:45 am – 12:05 pm**  
**Oral Abstract Presentation I**

**Clark Ballroom**

- 10:45 The Metabolic Syndrome and Advanced Subclinical Atherosclerosis as Assessed by Coronary Calcium**  
*Muddassir Mehmood, MBBS, Wright State University, Cardiovascular Award Winner*
- 11:05 Two Functional Promoter Variants of Sphingosine-1-Phosphate Receptor 3 Gene Decrease Human Susceptibility to Severe Sepsis-Associated Acute Lung Injury**  
*XiaoGuang Sun, MD, PhD, University of Illinois at Chicago*
- 11:20 Rac1 Interaction With Cytochrome C Mediates Mitochondrial H<sub>2</sub>O<sub>2</sub> Production in Asbestos-Exposed Macrophages**  
*Heather Osborn, MD, University of Iowa Hospitals and Clinics*
- 11:40 Mitochondria-Targeted Antioxidant Mito-TEMPO Prevents Angiotensin II Mediated Connexin 43 Remodeling and Sudden Cardiac Death**  
*Ali Sovari, MD, University of Illinois at Chicago, Outstanding Young Investigator Award Winner*

**10:45 am – 12:05 pm**  
**Oral Abstract Presentation II**

**Addison Ballroom**

- 10:45 Regulation of Islet Beta Cell SERCA2 Expression and Calcium Homeostasis in Type 2 Diabetes Mellitus**  
*Carmella Evans-Molina, MD, PhD, Indiana University*
- 11:05 C Ghrelin Suppresses Insulin Secretion and Compromises Beta-Cell Function in Healthy Humans**  
*Jenny Tong, MD, PhD, University of Cincinnati*
- 11:20 REG3? is a Biomarker of Graft Versus Host Disease of the Gastrointestinal Tract**  
*Andrew Harris, MD, University of Michigan*
- 11:40 TAZ as a Regulator of Mesenchymal Transformation and Clinical Aggressiveness in Gliomas**  
*Katrina Salazar, University of Texas Health Science Center Houston/MD Anderson Cancer Center*

**12:05 pm – 12:40 pm**  
**Conflict of Interest Session**

**Room-TBD**

- Roy Weiss presiding,*
- 12:05 Ethics in Clinical Research**  
*Dr. Walter Stadler*  
*Fred C. Buffett Professor of Medicine & Surgery*  
*Associate Dean for Clinical Research*  
*Director, Genitourinary Program, University of Chicago Medical Center*
- Carol Zuiches*  
*Associate Vice President for Research, and Director, University Research Administration*  
*University of Chicago Research*

12:40 pm – 1:10 pm

Lunch

1:10 pm – 2:10 pm  
CSCR Hickam Lecture

Marriott Ballroom

**Bradley Britigan presiding,**

1:10 CSCR Hickam Lecture

*Joe G.N. Garcia, MD*

*Vice Chancellor Research, University of Illinois at Chicago*

2:20 pm – 3:50 pm

Poster Session with Refreshments

Avenue Ballroom

4:00 pm – 7:00 pm  
MWAfMR Scholars Program

McHenry Room (3rd floor)

Welcome Reception and Poster Session

*Jointly presented by*

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MIDWESTERN SECTION AMERICAN FEDERATION FOR MEDICAL RESEARCH**

Thursday, April 14, 2011

5:00 pm – 7:00 pm

Avenue Ballroom

**Cardiology/Cardiovascular Disease**

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**The Metabolic Syndrome and Advanced Subclinical Atherosclerosis as Assessed by Coronary Calcium**

*M. Mehmood, R.J. Markert, M.S. Chandra, Medicine, Wright State University, Dayton, OH; B. Bodenmiller, Miami Valley Hospital, Dayton, OH; (Cardiovascular Award winner, Trainee Travel Award winner)*

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**Mitochondria-Targeted Antioxidant, Mito-TEMPO, Prevents Angiotensin II Mediated Connexin 43 Remodeling and Sudden Cardiac Death**

*A.A. Sovari, L. Gu, D. Mitchell, E. Jeong, M.G. Bonini, S.C. Dudley, Cardiology, UIC, Chicago, IL; S. Irvanian, Cardiology, Emory University, Atlanta, GA; (Outstanding Young Investigator Award winner, Trainee Travel Award winner)*

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**Myocardial Late Gadolinium Enhancement is a Novel Finding in Sickle Cell Disease: A Cardiac Magnetic Resonance and Genomic Study**

*A.A. Desai, S. Trevino, T. Zhou, M. Wade, R.F. Machado, J. Garcia, Medicine, University of Illinois at Chicago, Chicago, IL; H. Ahmad, T. Thiruvoipati, R.M. Lang, A.R. Patel, Medicine, University of Chicago, Chicago, IL; K. Turner, N. Artz, Medicine, Loyola University, Maywood, IL; (Trainee Travel Award winner)*

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**Race-Based Disparities in Post Percutaneous Coronary Intervention (PCI) Outcomes Persist Independent of Socioeconomic Status (SES) and Access to Healthcare**

*A.W. Appis, A. Mithani, S. Attanasio, RUSH University Medical Center, Chicago, IL; S. Dontarajus, M. Ravilla, L. Lee, R. Kelly, John Stroger Hospital of Cook County, Chicago, IL; S. Nathan, The University of Chicago Hospitals, Chicago, IL; A. Amin, Mid-America Heart Institute, Kansas City, MO.*

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**Right Ventricular Contractility Predicts Functional Response to Resynchronization**

*M.V. Burri, R.M. Weiss, J.B. Martins, University of Iowa Hospitals and Clinics, Iowa City, IA; (Trainee Travel Award)*

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**A Tissue Stem Cell Niche Regulates Oxidative-Mechanical Lrp5 Aortic Valve Osteoblastogenesis**

*N.M. Rajamannan, Cardiology, Northwestern University Feinberg School of Medicine, Chicago, IL.*

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**Probenecid Increases Myocardial Contractility Without Worsening Ischemic Damage in an Infarct Model**

S. Koch, A. Anjak, M. Jiang, J. Rubinstein, *Cardiology, University of Cincinnati, Cincinnati, OH*; L. Haar, X. Ren, Y. Liu, H. Wang, W. Jones, *Pharmacology and Cell Biophysics, University of Cincinnati, Cincinnati, OH*.

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**Vasodilator-Stimulated Phosphoprotein Deficiency Potentiates PAR-1-Induced Increase in Endothelial Permeability in Mouse Lungs**

J. Profirovic, J. Han, A.V. Andreeva, R.F. Neamu, T.A. Voyno-Yasenetskaya, *University of Illinois, Chicago, IL*; U. Walter, *University of Würzburg, Würzburg, Germany*.

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**Supernormal Ejection Fraction and Left Ventricular Diastolic Dysfunction**

M. Garg, *Guthrie Clinic, Sayre, PA*; J.A. Goetze, A.N. Magalski, *Mid America Heart Institute, University of Missouri Kansas City, Kansas City, MO*.

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**Atherothrombosis: Atherosclerosis, Thrombophilia, Hypofibrinolysis and Progressive Coronary Artery Disease**

A. Gal, C. Abuchaibe, C. Glueck, P. Wang, I.M., *Jewish Hospital Cincinnati, Blue Ash, OH*.

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**Gender Differences in Cardiac Repolarization Following Intravenous Sotalol Administration**

J.C. Somberg, *Department of Medicine and Pharmacology, Rush University, Chicago, IL*; R.A. Preston, *Department of Clinical Pharmacology, University of Miami, Miller School of Medicine, Miami, FL*; V.V. Ranade, *Department of Chemistry, Academic Pharmaceuticals, Lake Bluff, IL*; J. Molnar, *Department of Clinical Research, Academic Pharmaceuticals, Lake Bluff, IL*; I. Cvetanovic, *Department of Pharmacology, Rush University, Chicago, IL*.

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**Validation of Velocity Vector Imaging Echocardiography With Magnetic Resonance Imaging in Mouse Models of Cardiomyopathy**

S.M. Azam, A. Liner, B.D. Hoit, *Division of Cardiovascular Medicine, University Hospitals Case Medical Center, Cleveland, OH*; J. Stelzer, *Department of Physiology and Biophysics, Case Western Reserve University, Cleveland, OH*; C.L. Desjardin (**Trainee Travel Award**), X. Yu, *Department of Biomedical Engineering, Case Western Reserve University, Cleveland, OH*.

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**Thromboelastogram-Platelet Mapping is Useful in Determining Platelet Inhibition Preoperatively in Patients Receiving Dual Antiplatelet Therapy**

E. Kaynak, A. Denktas, *Cardiology, University of Texas at Houston, Houston, TX*; A. Altamirano, E. Pivalizza, D. Cattano, *Anesthesiology, University of Texas at Houston, Houston, TX*.

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**Pegloticase Does Not Cause QT Interval Prolongation**

J.C. Somberg, *Department of Medicine and Pharmacology, Rush University, Chicago, IL*; I. Cvetanovic, *Department of Pharmacology, Rush University, Chicago, IL*; T. Rosario-Jansen, *Savient Pharmaceuticals, East Brunswick, NJ*; J. Molnar, *American Institute of Therapeutics, Lake Bluff, IL*.

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**Liver-Specific Expression of Phospholipids Transfer Protein (PLTP) Increases Atherogenic Lipoproteins Production**

A. Yazdanyar, X. Jiang, *Cell Biology, SUNY Downstate Medical center, Brooklyn, NY*; (**Trainee Travel Award**)

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**Limited Correlation of Cardiac Output and Device Flows in the Heart Mate II LVAD**

A.Y. Kim, J. Gelow, F. McNeil, J. Mudd, E. Adler, H. Song, *Medicine, Oregon Health and Science University, Portland, OR*; (**Trainee Travel Award, K Award winner**)

**Dermatology**

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**Dynamic Interplay of Tumor and Microenvironmental Contributions of the  $\alpha 2\beta 1$  Integrin in Squamous Cell Carcinoma**

T. Tran, B. Barlow, L. O'Rear, B. Jarvis, Z. Li, M. Zutter, *Pathology, Vanderbilt University, Nashville, TN*; W. Dupont, *Biostatistics, Vanderbilt University, Nashville, TN*; (**Trainee Travel Award**)

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**Hdac1 and Hdac2 Act Redundantly to Control p63 and p53 Functions in Epidermal Progenitor Cells**

M. LeBoeuf, A. Terrell, S. Trivedi, S. Millar, *Dermatology, University of Pennsylvania School of Medicine, Philadelphia, PA*; E. Olson, *Department of Molecular Biology, UT Southwestern, Dallas, TX*; S. Sinha, *Biochemistry, State University of New York at Buffalo, Buffalo, NY*; J. Epstein, E. Morrissey, *Cardiology, University of Pennsylvania School of Medicine, Philadelphia, PA*.

**Disease Modulation/Intervention**

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**Clinical Predictors of Treatment Response to Divalproex and Risperidone Among Youth With Pediatric Bipolar Disorder (PBD)**

A.E. West, S. Weinstein, M. Pavuluri, *Psychiatry, University of Illinois at Chicago, Chicago, IL*; (**K-Award winner**)

**Endocrinology/Metabolism**

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**Ghrelin Suppresses Insulin Secretion and Compromises Beta-Cell Function in Healthy Humans**

J. Tong, H.W. Davis, M.H. Tscheop, D. D'Alessio, *Medicine, University of Cincinnati, Cincinnati, OH*; R.L. Prigeon, *Medicine, University of Maryland, Baltimore, MD*; (**K-Award winner**)

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**Testosterone Treatment for Hypogonadism Leading to Clinically Significant High Estradiol**

M. Gowda, J. Zacharias, M. Kammineni, A. Ahmad, Internal medicine, Jewish Hospital, Cincinnati, OH; V.M. Reddy, S. Rawal, P. Wang, C.J. Glueck, Cholesterol Center, Jewish Hospital, Cincinnati, OH; **(Trainee Travel Award winner)**

**Gastroenterology/Clinical Nutrition**

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**An Essential Role for a Phosphatidylinositol 4-Kinase in Hepatitis C Virus Replication Complex Assembly**

A. Tai, S. Salloum, Internal Medicine, University of Michigan, Ann Arbor, MI; R.T. Chung, Medicine, Massachusetts General Hospital, Boston, MA.

**Geriatrics**

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**A Meta-Analysis of Interventions to Reduce Loneliness**

C.M. Masi, Medicine, University of Chicago, Chicago, IL; H. Chen, L.C. Hawkey, J.T. Cacioppo, Psychology, University of Chicago, Chicago, IL; **(K-Award winner)**

**Health Care Research/Clinical Epidemiology/Quality Improvement**

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**Hospital-Acquired Conditions and Pay-for-Performance: The Impact of Risk Adjustment**

J. Meddings, L.F. McMahon, Internal Medicine, University of Michigan, Ann Arbor, MI.

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**Impact of Medicare-Specialized Nurse Case Management: Favorable Hospital and Emergency Utilization Outcomes for a Medicare Advantage Population Compared to Unmanaged Traditional Medicare Experience**

M.J. Wade, R. Kunkel, C. Spettell, J. Stock, R. Falk, R. Krakauer, Medicare Medical Management, Aetna, Inc., Princeton, NJ.

**Hematology and Oncology**

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**Piracy of COX-2/PGE2/EP Receptor Pathway by Kaposi's Sarcoma Associated Herpesvirus (KSHV): A Potential Achilles Heel of KSHV Related Diseases**

A.G. Paul, Microbiology and Immunology, Rosalind Franklin University of Medicine and Science, Chicago, IL; N. Sharma-Walia, Microbiology and Immunology, Rosalind Franklin University of Medicine and Science, Chicago, IL; B. Chandran, Microbiology and Immunology, Rosalind Franklin University of Medicine and Science, Chicago, IL.

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**Regulation of Tumor Immune Microenvironments by EphrinB2**

X. Luo, K.S. Cohen, Internal Medicine, University of Chicago, Chicago, IL.

**Infectious Disease**

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**Human Alveolar Epithelial Cells are a Target for Bacillus Anthracis Lethal Toxin**

J. Metcalf, M. Langer, J. Booth, E. Duggan, V. Patel, Pulmonary and Critical Care Division, Department of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK; T. Veres, F. Prenzler, K. Sewald, A. Braun, Immunology, Allergology and Immunotoxicology, Fraunhofer Institute for Toxicology and Experimental Medicine, Hannover, GERMANY; K. Coggeshall, Program in Immunology and Cancer, Oklahoma Medical Research Foundation, Oklahoma City, OK.

**Mechanisms of Disease**

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**NOD2 Expression Upregulated by Organic Dust via NF- $\kappa$ B Negatively Regulates Organic Dust-Induced Inflammatory Responses**

J.A. Poole, T. Kielian, T.A. Wyatt, A. Gleason, W. West, R.J. Debra, Medicine, University of Nebraska Medical Center, Omaha, NE.

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**Transactivation of the EphA2 Receptor is Required for Hyaluronan/CD44-Mediated Human Pulmonary Angiogenesis**

F. Lennon, T. Mirzapourzava, N. Mambetsariev, B. Mambetsariev, G. Cervantes, S. Ravi, S.A. Patrick, University of Chicago, Chicago, IL; **(Trainee Travel Award)**

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**Advanced Glycation Endproducts in Diabetic Sensory Neuropathy: A Role for Glyoxalase I in Population-Specific Sensory Neurons**

M.M. Jack, J.M. Ryals, D.E. Wright, Anatomy and Cell Biology, The University of Kansas Medical Center, Kansas City, KS; **(Trainee Travel Award)**

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**Activation of Carbohydrate Response Element Binding Protein (ChREBP) by Ethanol**

S. Liangpunsakul, M. Sozio, R. Harris, R. Ross, D. Crabb, Division of Gastroenterology/Hepatology, Indiana University School of Medicine, Indianapolis, IN; **(K-Award winner)**

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**RAG-1 Mutant Dahl Salt Sensitive Rats are Resistant to NaCl-Induced Hypertension**

M.A. Saleh, C. Guo, L. Hayley, D. Satarupa, G.M. Aron, M.L. David, Physiology, Medical College of Wisconsin, Milwaukee, WI; **(Trainee Travel Award)**



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**Marinobufagenin and Angiogenic Imbalance are the Indicators of Cerebral Vascular Leak Syndrome in Preeclampsia**

M.N. Uddin, D.C. Zawieja, *Systems Biology and Translational Medicine, Texas A&M Health Science Center College of Medicine/Scott&White, Temple, TX*; R.O. Jones, S.R. Allen, T.J. Kuehl, *Obstetrics & Gynecology, Texas A&M Health Science Center College of Medicine/Scott&White, Temple, TX*; **(Trainee Travel Award winner)**

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**The Effect of B-Complex Vitamins Upon the Prolongation of Prothrombin Time by Acetaldehyde**

A.S. Brecher, J. Catazaro, *Chemistry, Bowling Green State University, Bowling Green, OH*.

**Molecular Medicine and Bioinformatics**

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**The Spindle Assembly Checkpoint is Composed of Two Independent and Conserved Branches: One That Requires Aurora B Kinase Activity and Another That Requires CENP-H and CENP-I**

D. Matson, P. Demirel, D. Burke, T. Stukenberg, *Biochemistry and Molecular Genetics, University of Virginia, Charlottesville, VA*.

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**Balancing Medical Informatics and Medical 'Ignoramics': Curriculum, Assessment, and the Virtual Clinical Research Center/Questionnaire**

M.H. Witte, P.D. Crown, M.J. Bernas, S.K. Daley, *Surgery, University of Arizona College of Medicine, Tucson, AZ*; J.R. Hall, *Biomedical Communications, Arizona Health Sciences Center, Tucson, AZ*; F.A. Garcia, *Obstetrics & Gynecology, University of Arizona College of Public Health, Tucson, AZ*.

**Nephrology**

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**Loss of Activator of G Protein Signaling 3 Impairs Renal Tubular Regeneration Following Acute Kidney Injury in Rodents**

K.R. Regner, F. Park, *Medicine, Medical College of Wisconsin, Milwaukee, WI*.

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**Granulation Tissue Derived Stem Cells A Novel Source of Adult Stem Cells for Repair of Acute Kidney Injury**

J. Patel, N. Pancholi, G. Dunea, *Hektoen Institute of Medicine, Chicago, IL*; K.P. Gudehithlu, A.K. Singh, John H. Stroger, Jr. Hospital of Cook County, Chicago, IL; J.A. Arruda, *University of Illinois at Chicago and the Chicago VAMC, Chicago, IL*.

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**Primary Language in Hispanics With Chronic Kidney Disease and Medical Management of Diabetes, Hypertension, and Hyperlipidemia**

C.M. Lora, E. Carmona, J.P. Lash, *Medicine, University of Illinois at Chicago, Chicago, IL*; B.S. Gerber, *Jesse Brown VA Medical Center, Chicago, IL*; L.M. Ackerson, A.S. Go, *Division of Research, Kaiser Permanent, Oakland, CA*; **(K-Award winner)**

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**Ethanol Alters Expression of Cytochrome P450 (CYP) Isoforms in Podocytes**

E. McCarthy, R. Eckert, S. Wang, *Kidney Institute, University of Kansas Medical Center, Kansas City, KS*; J. Zhou, R. Sharma, V. Savin, M. Sharma, *Kansas City VA Medical Center, Kansas City, MO*; T. Srivastava, *Nephrology, Children's Mercy Hospital, Kansas City, MO*.

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**Dynamic Podocyte and Arteriolar Wall APOL1 Expression Patterns in Non-Diabetic Kidney Disease**

S.M. Madhavan, J.F. O'Toole, M. Konieczkowski, L.A. Bruggeman, J.R. Sedor, *Nephrology, Case Western Reserve University, Cleveland, OH*.

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**Association of Social Support and Mortality in African Americans With Chronic Kidney Disease**

Porter, D. Brooks, M. Bruce, J. Charleston, W. Cleveland, D. Dowie, M. Faulkner, J. Gassman, T. Greene, L. Hiremath, C. Kendrick, J.W. Kusek, D. Thornley-Brown, X. Wang, K. Norris, M. Fischer, J. Lash, *University of Illinois at Chicago, Chicago, IL*.

**Pulmonary/Critical Care**

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**Rac1 Interaction With Cytochrome C Mediates Mitochondrial H<sub>2</sub>O<sub>2</sub> Production in Asbestos-Exposed Macrophages**

H.L. Osborn, A.J. Ryan, A. Racila, S. Murthy, B. Carter, *Pulmonary and Critical Care, University of Iowa Hospitals and Clinics, Iowa City, IA*; **(Trainee Travel Award winner)**

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**Differential Roles of Sphingosine Kinase 1 and S1P Lyase Deficiency in Hyperoxia Induced ROS Generation and Lung Injury**

S. Pendyala, I. Gorshkova, P. Usatyuk, H. Anantha, D. He, V. Natarajan, *Pharmacology, University of Illinois at Chicago, Chicago, IL*; Y. Zhao, *Medicine, University Of Pittsburgh, Pittsburgh, PA*; J.G. Garcia, *Medicine, University Of Illinois at Chicago, Chicago, IL*; **(Trainee Travel Award)**

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**Nitrated Sphingosine 1-Phosphate Receptor 3 in Circulating Microparticles is a Novel Biomarker for Acute Lung Injury**

X. Sun, P.A. Singleton, J. Zhao, S. Sammani, E.T. Chiang, L. Moreno-Vinasco, S.M. Dudek, V. Natarajan, J.R. Jacobson, R. Machado, J.G. Garcia, *Medicine, University of Illinois at Chicago, Chicago, IL*; H. Ischiropoulos, *Department of Pediatrics, Children's Hospital of Philadelphia, Philadelphia, IL*; **(Trainee Travel Award, K Award winner)**

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**Ezrin/Radixin/Moesin Proteins Differentially Regulate S1P-Induced Pulmonary Endothelial Cell Barrier Enhancement**

D. Adyshv, N. Moldobaeva, V. Ramamoorthi Elangovan, J.G. Garcia, S.M. Dudek, *Medicine, The University of Illinois at Chicago, Chicago, IL*; **(Trainee Travel Award winner)**

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**Cortactin Modulates Allergic Airway Responses in a Murine Model of Asthma**

T. Wang, S. Sammani, L. Moreno-Vinasco, B. Mathew, S.M. Dudek, J. Garcia, Medicine, University of Illinois at Chicago, Chicago, IL; (Trainee Travel Award winner)

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**Hyaluronidase-1 is a Novel Regulator of Human Pulmonary Endothelial Barrier Disruption**

T. Mirzapioazova, N. Mambetsariev, B. Mambetsariev, F.E. Lennon, P.A. Singleton, Medicine, University of Chicago, Chicago, IL.

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**FTY720 S-Phosphonate Exhibits Superior Barrier Promoting Properties to S1P and FTY720 In Vitro and In Vivo**

L. Wang, S. Sammani, L. Moreno-Vinasco, S. Camp, J. Garcia, S. Dudek, Department of Medicine, University of Illinois at Chicago, Chicago, IL; R. Bittman, Queens College of The City University of New York, New York, NY; (Trainee Travel Award)

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**hsa-miR-374a and hsa-miR-568 Attenuate LPS- and Cyclic Stretch-Induced PBEF Gene Expression in Human Lung Endothelium**

V. Ramamoorthi Elangovan, D. Adyshev, S. Siddiqui, N. Moldobaeva, S. Dudek, J. Garcia, Institute for Personalized Respiratory Medicine, Pulmonary, Critical Care, Sleep and Allergy, University of Illinois at Chicago, Chicago, IL; (Trainee Travel Award winner)

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**GADD45a Mediates Akt Signaling in Mechanical Stress-Induced Lung Injury: Role of TRAF6 and UCHL1**

S. Mitra, S. Sammani, S.M. Dudek, L. Moreno-Vinasco, J.G. Garcia, J.R. Jacobson, Institute for Personalized Respiratory Medicine, Department of Medicine, Section of Pulmonary Critical Care, Sleep and Allergy, University of Illinois at Chicago, Chicago, IL; D. Boone, Department of Medicine, Section of Gastroenterology, University of Chicago, Chicago, IL.

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**Mitochondrial SOD Protects Hyperoxia-Induced Dysfunction of Lung Endothelium**

P.V. Usatyuk, V. Natarajan, Medicine, University of Illinois at Chicago, Chicago, IL.

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**Sphingosine Kinase 1 Deficiency Protects Bleomycin Induced Mouse Lung Fibrosis**

L. Huang, P. Fu, W. Ma, D. He, V. Natarajan, Department of Pharmacology, The University of Illinois at Chicago, Chicago, IL; J. Garcia, College of Medicine, The University of Illinois at Chicago, Chicago, IL; B. Mathew, Institute for Personalized Respiratory Medicine, The University of Illinois at Chicago, Chicago, IL.

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**Transcription Factor STAT3 is Involved in the Regulation of Lipopolysaccharide-Induced Sphingosine-1-Phosphate Lyase Expression in Lung Endothelium**

W. Ma, D. He, S. Pendyala, L. Moreno-Vinasco, J.G. Garcia, V. Natarajan, Institute for Personalized Respiratory Medicine, University of Illinois at Chicago, Chicago, IL; Y. Zhao, Department of Medicine, University of Pittsburgh, Pittsburgh, PA; B. Oskouian, J. Saba, Children's Hospital Oakland Research Institute for Cancer Center, Oakland, CA; (Travel Trainee Award, K Award winner)

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**Nuclear Localization of TGF Beta Receptors in Mesenchymal Derived Cells From the Lung**

E. Karrar, K. Jenkins, A. Mosley-Brown, A. Morel, R. Espinosa, A. Kapila, B. Camoretti-Mercado, Department of Medicine, University of Chicago, Chicago, IL.

**Rheumatology/Immunology/Allergy**

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**Soluble CD14 in Synovial Fluid From Patients With Osteoarthritis (OA) and Meniscal Injury Modulates LPS Activation of Fibroblast-Like Synoviocytes**

C.R. Scanzello, A. Nair, V. Kanda, A. Finnegan, Internal Medicine/Rheumatology, Rush University Medical Center, Chicago, IL; C. Bush-Joseph, N. Verma, K. Mikecz, Orthopedics, Rush University Medical Center, Chicago, IL; G.T. Spear, Immunology/Microbiology, Rush University Medical Center, Chicago, IL; M.K. Crow, Medicine/Rheumatology, Hospital for Special Surgery, New York, NY.

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**TULA-2, a Novel Tyrosine-Phosphatase, Regulates Syk Phosphorylation in Osteoclast Signaling Pathways**

S. Back, N. Adapala, D. Holland, T.N. Newman, M.F. Barbe, A.Y. Tsygankov, A. Sanjay, Temple University, Philadelphia, PA; N. Carpino, Stony Brook University, Stony Brook, NY.

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**IFIH1 rs1990760 SNP is Associated With Differential Interferon Alpha Response and dsDNA Autoantibodies in Lupus Patients**

T. Robinson, S.N. Kariuki, B.S. Franek, A.A. Kumar, M. Badaracco, T.O. Utset, T.B. Niewold, Rheumatology, University of Chicago, Chicago, IL; R.A. Mikolaitis, M. Jolly, Rheumatology, Rush University, Chicago, IL.

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**IRF8 Allele Associated With Susceptibility to Multiple Sclerosis is Associated with Serum Interferon Alpha and Serologic Profile in Systemic Lupus Erythematosus**

B.S. Franek, S.N. Kariuki, J. Arrington, T.O. Utset, T.B. Niewold, Rheumatology, University of Chicago, Chicago, IL; R.A. Mikolaitis, M. Jolly, Rheumatology, Rush University, Chicago, IL; M. Zervou, D.T. Boumpas, G. Goulielmos, Internal Medicine and Rheumatology, Clinical Immunology and Allergy, University of Crete, Heraklion, Greece; (K-Award winner)

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**Serum Cytokines in Sarcoidosis**

K. Patterson, B.S. Franek, N. Sweiss, T.B. Niewold, University of Chicago, Chicago, IL.

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**Histone Deacetylase 11 as a Novel Regulator of T-Cell Reactivity**

*K.V. Woan, University of Florida, Gainesville, FL; D. Wang, F. Cheng, H. Wang, J. Rock-Klotz, Z. Wang, Y. Yu, E. Seto, N. Luetke, A. Villagra, X. Yu, E. Sotomayor, Moffitt Cancer Center, Tampa, FL.*

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**Serum Free Light Chains, Interferon  $\alpha$  and Interleukins as Biomarkers of Disease Activity in Systemic Lupus Erythematosus**

*S. Francis, R.A. Mikolaitis, S. Chubinskaya, J.A. Block, W. Sequeira, M. Jolly, Medicine/Rheumatology, Rush University, Chicago, IL; T.B. Niewold, Medicine/Rheumatology, University of Chicago, Chicago, IL; R. Aggarwal, University of Pittsburgh Medical Center, Pittsburgh, PA.*

**Afternoon Break and Poster Session**

*Jointly presented by*

**Central Society for Clinical Research  
Midwestern Section American Federation for Clinical Research**

**Friday, April 15, 2011  
2:20 pm – 3:30 pm**

**Avenue Ballroom**

**Cardiology/Cardiovascular Disease**

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**Endothelial Cell Barrier Regulation by Simvastatin is Mediated by Claudin-5**

*W. Chen, J. Jacobson, J.G. Garcia, Medicine, University of Illinois at Chicago, Chicago, IL; (Travel Trainee award)*

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**Arterial Calcification and Vascular Remodeling in Chronic Kidney Disease is Directly Mediated by S100A12 (EN-RAGE)**

*J. Gawdzik, L. Mathew, T.S. Puri, M.A. Hofmann Bowman, Medicine, University of Chicago Medical Center, Chicago, IL.*

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**Normalization of Serum Vitamin D in Hypercholesterolemic, Vitamin D Deficient Patients, Previously Statin Intolerant Because of Myositis-Myalgia, Restores Statin Tolerance Without Myositis-Myalgia**

*N.A. Khan, W. Ahmed, A. Ahmed, C.J. Glueck, P. Wang, Internal Medicine, Jewish hospital, Cincinnati, OH; (Trainee Travel Award winner)*

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**Cardiac Troponin Elevation in Critically Ill Patients With No Coronary Disease: Significance and Treatment**

*F. Rothenberg, University of Cincinnati, Cincinnati, OH; N. Ibrahim, A. Ejaz, R. Vandivier, Cardiology, Veterans Administration Medical Center, Cincinnati, OH.*

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**High Prevalence of Ischemic Heart Disease in Patients With Hyperuricemia and Chronic Gout**

*J.C. Somberg, Department of Medicine and Pharmacology, Rush University, Chicago, IL; I. Cvetanovic, Department of Pharmacology, Rush University, Chicago, IL; J. Molnar, American Institute of Therapeutics, Lake Bluff, IL.*

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**Chronic Kidney Disease as a Risk Factor for Acute Coronary Syndromes in Patients Presenting to the Emergency Room With Chest Pain**

*S. Khambatta, R. Wright, G.S. Reeder, P.A. Smars, P.J. Best, Department of Medicine, Divisions of Cardiovascular Diseases and Emergency Medicine, Mayo Clinic, Rochester, MN; M. Farkouh, Clinical Trials Unit, Mount Sinai Heart, New York, NY; P.A. McCullough, Department of Medicine, Division of Cardiology, William Beaumont Hospital, Royal Oak, MI.*

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**The Short Term Effects of Omega-3 Polyunsaturated Fatty Acids on Heart Rate Variability in a Control Population**

*J. Moore, P. Binkley, Internal Medicine, The Ohio State University, Columbus, OH.*

**Disease Modulation/Intervention**

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**The Child is Father of the Man: Associations of Risk Factors at Age 12 and the Development of Cardiovascular Disease, Type 2 Diabetes Mellitus, and High Blood Pressure at Age 40: The Princeton Lipid Research Clinics Follow-Up Study**

*A.A. Khan, C.J. Glueck, P. Wang, Cholesterol and Metabolism Center, The Jewish Hospital, Cincinnati, OH; A. Cusmano, Internal Medicine, The Jewish Hospital, Cincinnati, OH; J.A. Morrison, Pediatrics, Children's Hospital, Cincinnati, OH.*

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**M1 "Classically Activated" Pro-Inflammatory MicroRNAs Collectively Inhibit the M2 "Alternatively Activated" Phenotypic Function of Phagocytosis in Mouse Primary Microglia**

*R.W. Freilich, K. Ingraham, T. Ikezu, Department of Pharmacology & Experimental Therapeutics, Boston University School of Medicine, Boston, MA.*

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**Critical Role of Sphingolipid Pathway Components in Murine Radiation-Induced Lung Injury: Protection by Sphingosine 1 Phosphate Analogues**

B. Mathew, J.R. Jacobson, E. Berdyshev, X. Sun, J. Siegler, C. Evanovskii, T. Wang, T. Zhou, L. Moreno-Vinasco, R. Zaidi, R. Bittman, S. Sammani, S.M. Dudek, V. Natarajan, J. Garcia, *Medicine, University Of Illinois at Chicago, Chicago, IL*; Y. Huang, Y. Zhao, L. Gerhold, Y.A. Lussier, C.T. Chen, P.J. LaRiviere, R.R. Weishelbaum, *Radiation Oncology, University Of Chicago, Chicago, IL*.

**Endocrinology/Metabolism**

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**Regulation of Islet Beta Cell SERCA2 Expression and Calcium Homeostasis in Type 2 Diabetes Mellitus**

T. Kono, D. Moss, C. Evans-Molina, *Medicine, Indiana University, Indianapolis, IN*; G. Ahn, L. Gann, P. Fueger, T. Ogiyama, *Wells Center for Pediatric Research, Indiana University, Indianapolis, IN*; A. Zarain-Herzberg, *Dept. de Bioquímica, Facultad de Medicina, Universidad Nacional Autónoma de México, México Distrito Federal, MEXICO*; **(Trainee Travel Award, K Award winner)**

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**Adolescent Oligomenorrhea in a Healthy, Bi-Racial Schoolgirl Cohort: A Simple Clinical Parameter Predicting Young Adult Insulin, Glucose, and Homa Insulin Resistance From Age 19 to 25**

J.A. Zacharias, M.K. Gowda, A. Ahmed, *Internal Medicine, Jewish Hospital Cincinnati, Cincinnati, OH*; C.J. Glueck, P. Wang, M. Kammineni, S. Rawal, V. Reddy, *Cholesterol Center, Jewish Hospital, Cincinnati, OH*; **(Trainee Travel Award winner)**

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**Normalization of Serum Vitamin D in 125 Hypercholesterolemic, Vitamin D Deficient Patients, Previously Statin Intolerant Because of Myositis-Myalgia, Restores Statin Tolerance Without Myositis-Myalgia**

C. Abuchaibe, C.J. Glueck, S.B. Budhani, M. Kammineni, N. Khan, A. Khan, P. Wang, N. Goldenberg, *Internal Medicine, The Jewish Hospital of Cincinnati, Cincinnati, OH*; **(Trainee Travel Award winner)**

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**Adolescent Oligomenorrhea in a Biracial Schoolgirl Cohort: A Simple Clinical Parameter Predicting Impaired Fasting Glucose Plus Type 2 Diabetes, Insulin, Glucose, Insulin Resistance, and Centripetal Obesity From Age 19 to 25**

A. Gal, C. Abuchaibe, C. Glueck, P. Wang, *Internal Medicine, The Jewish Hospital, Cincinnati, OH*; J. Morrison, *Cardiology, Cincinnati Childrens Hospital, Cincinnati, OH*; D. Stroop, *Hematology, Cincinnati Childrens Hospital, Cincinnati, OH*; S. Daniels, *Pediatrics, Childrens Hospital, Denver, CO*; **(Trainee Travel Award winner)**

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**The Development of G4 Polyamidoamine (PAMAM) Dendrimer as an Ideal Nanoscale Delivery System for Islet Transplant**

D. Gutierrez, *Department of Bioengineering, University of Illinois at Chicago, Chicago, IL*; Y. Wang, T. Harvat, J. Oberholzer, *Department of Surgery, University of Illinois at Chicago, Chicago, IL*; Y. Yang, S. Hong, *Department of Biopharmaceutical Sciences, University of Illinois at Chicago, Chicago, IL*.

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**Age 14 Sex Hormone Binding Globulin, Oligomenorrhea, and Childhood Insulin Predict Metabolic Syndrome and Class III Obesity at Age 24**

A. Ahmad, M.K. Gowda, J. Zacharias, N. Khan, *Jewish Hospital, Cincinnati, OH*; S. Rawal, M. Kammineni, C. Glueck, P. Wang, J. Morrison, *Cholesterol Center, Jewish Hospital, Cincinnati, OH*; **(Trainee Travel Award)**

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**Normalization of Serum Vitamin D in Hypercholesterolemic, Vitamin D Deficient Patients, Previously Statin Intolerant Because of Myositis-Myalgia, Restores Statin Tolerance Without Myositis-Myalgia**

A. Gal, C. Abuchaibe, C. Glueck, P. Wang, I.M., *Jewish Hospital Cincinnati, Blue Ashe, OH*; **(Trainee Travel Award winner)**

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**Exogenous Testosterone or Arimidex and Osteonecrosis of Hips-Jaw, Pulmonary Embolism, and Amaurosis Fugax in Men With Previously Undiagnosed Familial Thrombophilia**

M. Gowda, J. Zacharias, A. Ahmad, D. Lotner, *Internal medicine, Jewish Hospital, Cincinnati, OH*; V. Reddy, M. Kammineni, P. Wang, C.J. Glueck, *Cholesterol Center, Jewish Hospital, Cincinnati, OH*.

**Gastroenterology/Clinical Nutrition**

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**REG3 $\alpha$  is a Biomarker of Graft Versus Host Disease of the Gastrointestinal Tract**

A.C. Harris, J.L. Ferrara, J.E. Levine, T. Braun, J. Crawford, J. Granger, M. Vander Lugt, C. Byersdorfer, J. Magenau, A. Gomez, S. Choi, C. Kitko, G. Yanik, E. Peres, A. Pawarode, S. Mineishi, P. Reddy, D.R. Couriel, S. Paczesny, *Blood and Marrow Transplant Program, University of Michigan, Ann Arbor, MI*; J. Hogan, S. Pitteri, H. Wang, A. Chin, Q. Zhang, S. Hanash, *Molecular Diagnostics Laboratory, Fred Hutchinson Cancer Research Center, Seattle, WA*; **(Trainee Travel Award winner)**

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**Lymphangiogenesis in Water Avoidance Induced Stress and Citrobacter Rodentium Induced Gut Inflammation**

A. Aravantagi, S. Shekar, *Med-Peds, LSUHSC, Shreveport, LA*; W. Cromer, V. Ganta, S. Alexander, *Molecular and Cellular Physiology, LSUHSC, Shreveport, LA*; P. Jordan, K. Manas, A. Sheth, *Gastroenterology, LSUHSC, Shreveport, LA*; M. Gareau, P. Sherman, *Gastroenterology, The Hospital for Sick Children, Toronto, Ontario, Canada*.

**Genetic Medicine**

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**Sleep Duration Modifies the Heritability of Body Mass Index**

N. Watson, *Neurology, University of Washington, Seattle, WA*; D. Buchwald, *Medicine, University of Washington, Seattle, WA*; J. Goldberg, *Epidemiology, University of Washington, Seattle, WA*; P. Harden, *Psychology, University of Washington, Seattle, WA*; **(Trainee Travel Award, K Award winner)**

**Health Care Research/Clinical Epidemiology/Quality Improvement**

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**Mortality Among Patients With Communication Disabilities; Post-Hospitalization**

A. Sokolovsky, P.S. Heckerling, B.S. Gerber, *Medicine, University of Illinois at Chicago, Chicago, IL*; D.A. Ebert, *Access Community Health network, Chicago, IL*.

**Hematology and Oncology**

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**TAZ as a Regulator of Mesenchymal Transformation and Clinical Aggressiveness in Gliomas**

K. Salazar, B. Vaillant, K. Wani, F. Hollingsworth, K. Diefes, T. Doucette, J. Gumin, D. Patel, F. Lang, G. Rao, K. Bhat, K. Aldape, *MD Anderson Cancer Center, Houston, TX*; V. Balasubramanian, J. Mooij, *University Medical Center Groningen, Groningen, Netherlands*; S. Kim, *Yonsei University, Seoul, Republic of Korea*; **(Trainee Travel Award)**

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**CD30/CD30L Signaling in Treg Mediated Suppression of T Cell Function**

N. Tiwari, V. Nguyen, *University of Chicago, Chicago, IL*.

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**Antagonizing Repair-Mediated Resistance in Breast and Ovarian Cancer**

S.R. Stecklein, E. Kumaraswamy, W. Wang, *Pathology & Laboratory Medicine, University of Kansas Medical Center, Kansas City, KS*; L.M. Harlan-Williams, *Anatomy & Cell Biology, University of Kansas Medical Center, Kansas City, KS*; V. Chaguturu, R.A. Jensen, *The University of Kansas Cancer Center, University of Kansas Medical Center, Kansas City, KS*; **(Trainee Travel Award)**

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**DEK Oncogene Expression is Important for Head and Neck Squamous Cell Carcinoma Development**

T. Wise-Draper, G. Hallenbeck, A. Varner, M. Morrison, S. Wells, *Division of Hematology and Oncology, Cincinnati Children's Medical Center, Cincinnati, OH*; P. Lambert, *Division of Oncology, University of Wisconsin School of Medicine and Public Health, Madison, WI*; K. Casper, Y. Patil, K. Wilson, *Department of Otolaryngology, University of Cincinnati, Cincinnati, OH*; K. Wikenheiser-Brokamp, *Division of Pathology, Cincinnati Children's Medical Center, Cincinnati, OH*; **(Trainee Travel Award)**

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**Identifying Genetic Variants Contributing to Cellular Sensitivity to Tamoxifen Using a Genome-Wide Cell-Based Model**

D. Ziliak, E. Gamazon, H. Im, N. Cox, M. Dolan, R. Huang, *University of Chicago, Chicago, IL*; Z. Desta, D. Flockhart, *Indiana University, Indianapolis, IN*; **(Trainee Travel Award, K Award winner)**

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**A Molecular Network Reveals the Exquisite Sensitivity of Dividing Cancer Cells to Microtubule Perturbation**

S.F. Bakhoun, *Medicine, Biochemistry, Norris Cotton Cancer Center, Dartmouth Medical School, Hanover, NH*; A.L. Manning, D.A. Compton, *Biochemistry, Norris Cotton Cancer Center, Dartmouth Medical School, Hanover, NH*; S. Maffini, C. Correia-Melo, H. Maiato, *3IBM-C-Instituto de Biologia Molecular e Celular, Universidade de Porto, Porto, Portugal*; **(Trainee Travel Award)**

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**Outcomes After Transhiatal and Transthoracic Esophagectomy for Esophageal Cancer**

C.S. Davis, K.E. Brownson, E.A. Bock, C. Weber, P.M. Fischella, M. Shoup, G.V. Aranha, *Department of Surgery, Loyola University Medical Center, Stritch School of Medicine, Maywood, IL*.

**Infectious Disease**

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**CD4+ T-Cell Response Against Human Papillomavirus Type 16 E6 Protein is Associated With a Favorable Clinical Trend**

K.H. Kim, W.W. Greenfield, M.J. Cannon, H.N. Coleman, H.J. Spencer, M. Nakagawa, *University of Arkansas for Medical Sciences, Little Rock, AR*; **(Trainee Travel Award)**

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**Is Repeat Stool Testing Needed for Diagnosis of Clostridium Difficile Infection Using Toxin (A and B) Enzyme Immuno Assay?**

A. Deshpande, V. Pasupuleti, P. Patel, G. Ajani, G. Hall, B. Hu, A. Jain, *Cleveland Clinic, Cleveland, OH*; D.D. Rolston, *Geisinger Medical Center, Danville, PA*; **(Trainee Travel Award)**

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**Microbiological Evaluation of Immunotherapy Agents in Clinical Practice**

V. Sundareshan, N.M. Khardori, *Infectious Diseases, Internal Medicine, Southern Illinois University School of Medicine, Springfield, IL*; K. Gilbert, R. Bass, *Otolaryngology, Southern Illinois University School of Medicine, Springfield, IL*.

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**Epidemiology of Infections Caused by Streptococcus Anginosus Group at a Tertiary Care Hospital in Springfield, Illinois**

O. Mansuri, *Internal Medicine, Southern Illinois University School of Medicine, Springfield, IL*; V. Sundareshan, N.M. Khardori, *Internal Medicine, Infectious Diseases, Southern Illinois University, Springfield, IL*; **(Trainee Travel Award)**

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**Iron-Containing Particles Induce Growth of *P. aeruginosa***

J. Borchering, J.C. Caraballo, A.A. Pezzulo, J. Zabner, A.P. Comellas, *Internal Medicine, University of Iowa, Iowa City, IA*; H. Chen, L. Stebounova, V.H. Grassian, *Department of Chemistry and Biochemical Engineering, University of Iowa, Iowa City, IA*.

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**Comparative Effects of Glycosaminoglycans on Activity of Coagulation Factors Toward Antithrombin**

A.S. Brecher, B.M. Larrick, L. Spaho, D. Beck, *Chemistry, Bowling Green State University, Bowling Green, OH*.

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**Mechanisms of Disease**

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**Fusion of Agonist-Induced Endosomes With Intracellular Vesicles to Create Nox1 Redox-Endosomes***J. Streeter, F. Miller, University of Iowa, Iowa City, IA.*

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**Caloric Restriction and Autophagy Activation Suppress Tau Toxicity in a Drosophila Model of Tauopathy***G.R. Jackson, Neurology, University Of Texas Medical Branch, Galveston, TX; M. Bakhom, Neuroscience and Cell Biology, University Of Texas Medical Branch, Galveston, TX; (Trainee Travel Award)*

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**A Link Between HIV Protease Inhibitor-Induced ER Stress and Autophagy in Adipocytes and Hepatocytes***B.S. Zha, M. Liang, P.B. Hylemon, H. Zhou, Microbiology/Immunology, Virginia Commonwealth University, Richmond, VA; S.E. Holt, Pathology, Virginia Commonwealth University, Richmond, VA; (Trainee Travel Award)*

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**Lysocardiolipin Acyltransferase (Lycat) is a Novel Candidate Gene in Radiation-Induced Pulmonary Fibrosis***I. Noth, S. Ma, Medicine, The University of Chicago, Chicago, IL; B. Mathew, E. Berdyshev, M. Wade, J. Siegler, J.R. Jacobson, J. Garcia, Medicine, University of Illinois at Chicago, Chicago, IL; L. Huang, V. Natarajan, Pharmacology, University of Illinois at Chicago, Chicago, IL; N. Kaminski, Y. Zhao, Medicine, University of Pittsburgh, Pittsburgh, PA; R.R. Weishelbaum, Radiation Oncology, University of Chicago, Chicago, IL; (Trainee Travel Award winner)*

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**Human Umbilical Cord Blood-Derived Mesenchymal Stem Cells in the Cultured Rabbit Intervertebral Disc - A Cell Therapy Approach***Y. Zhang, Orthopedics and Physical Medicine & Rehabilitation, Rush University Medical Center, Chicago, IL; (K-Award winner)*

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**Leptin Signaling and Oxalate Homeostasis: Relevance to Calcium Oxalate Kidney Stone Disease***Z. Wang, D. Arvans, M. Cheng, H. Ayash, H. Hassan, Medicine, The University of Chicago, Chicago, IL; (K-Award winner)*

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**Release of Mast Cell Mediators Contributes to Enhanced Sensory Mechanisms in the Urinary Bladder After TNBS Colitis***J.J. Fitzgerald, M.A. Pezzone, E. Ustinova, W.C. de Groat, School of Medicine, University of Pittsburgh, Pittsburgh, PA.*

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**Gain of Expression of Aldo-Keto Reductase Family 1 B10 (AKR1B10) Protein in Pancreatic Adenocarcinoma: An Early Event Involved in Pancreatic Carcinogenesis and a Potential Therapeutic Target***K.A. Matkowskyj, Y.T. Chung, J. Liao, H. Li, H. Bai, W. Zhang, G. Yang, Department of Pathology, Northwestern University, Feinberg School of Medicine, Chicago, IL.***Molecular Medicine and Bioinformatics**

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**Regulation of Stress-Induced Changes in PFC Synaptic Function by HDAC6***J.B. Lee, Z. Yan, SUNY Buffalo, Amherst, NY.***Nephrology**

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**A Pathogenic Missense LAMB2 Mutation Causes Congenital Nephrotic Syndrome by Impairing Laminin Secretion***Y.M. Chen, J.H. Miner, Renal Division, Washington University School of Medicine, St. Louis, MO; Y. Kikkawa, Laboratory of Clinical Biochemistry, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan; (K-Award winner)*

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**Activated Omentum Attenuates Progression of Chronic Kidney Disease in a Rat Remnant Kidney Model***N. Pancholi, J. Patel, G. Dunea, Hektoen Institute of Medicine, Chicago, IL; K.P. Gudehithlu, A.K. Singh, John H. Stroger, Jr. Hospital of Cook County, Chicago, IL; J.A. Arruda, University of Illinois at Chicago and the Chicago VAMC, Chicago, IL.*

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**Acute Aldosterone Treatment Enhances SPAK and NCC Phosphorylation***B. Ko, L. Moddes, Medicine, University of Chicago, Chicago, IL; R. Hoover, Medicine, Emory University, Atlanta, GA; (K-Award winner)*

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**Mouse Model of Prematurity Induced Reduction in Nephron Number and Hypertension***C. Stelloh, K. Allen, Medicine, Medical College of Wisconsin, Milwaukee, WI; A. El-Meanawy, Medicine, Milwaukee VA Medical Center, Milwaukee, WI.***Pulmonary/Critical Care**

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**Two Functional Promoter Variants of Sphingosine-1-Phosphate Receptor 3 Gene Decrease Human Susceptibility to Severe Sepsis-associated Acute Lung Injury***X. Sun, S. Ma, M.S. Wade, J. Moitra, J.G. Garcia, Medicine, University of Illinois at Chicago, Chicago, IL.*

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**Novel Candidate Genes Associated With the Protective Effects of SEW-2871 on Brain Death-Induced Acute Lung Injury***S. Sammani, R. Zaidi, . Mathew, T. Wang, T. Zhou, L. Moreno-Vinasco, J. Garcia, Dept of Medicine, UIC, Chicago, IL; K. Park, W. Vigneswaran, Department of Surgery, U of Chicago, Chicago, IL; A. Husain, Department of Pathology, U of Chicago, Chicago, IL; Y. Huang, Y. Lussier, medicine, U of Chicago, Chicago, IL; (Trainee Travel Award)*

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**Diodinase2 (Dio2) is a Novel Candidate Gene Linking Thyroid Metabolism to Protective Responses to Acute Inflammatory Lung Injury**  
L. Xie, L. Moreno-Vinasco, M.S. Wade, S. Sammani, I. Noth, R. Kittles, M. Pino-Yanes, G. Infusino, W. Zhang, J.R. Jacobson, S.M. Dudek, J.G. Garcia, University of Illinois at Chicago, Chicago, IL; S. Ma, University of Chicago, Chicago, IL; C. Flores, CIBER de Enfermedades Respiratorias, Instituto de Salud Carlos III, Madrid, Spain; (**Trainee Travel Award**)

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**Genomic Evaluation of Pulmonary Hypertension in Sickle Cell Disease**

A.A. Desai, S. Trevino, T. Zhou, M. Wade, J. Garcia, R.F. Machado, Medicine, University of Illinois at Chicago, Chicago, IL; H. Ahmad, T. Thiruvoipati, A.R. Patel, R.M. Lang, Medicine, University of Chicago, Chicago, IL; K. Turner, N. Artz, Medicine, Loyola University, Maywood, IL.

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**HGF-Mediated Lung Endothelial Barrier Regulation: Role of S1PR1 Transactivation, Integrin Beta 4 and Gab-1**

Y. Epshtein, P. Singleton, J. Jacobson, W. Chen, S. Dudek, J. Garcia, Medicine, UIC, Chicago, IL.

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Z. Zhang, X. Wu, Pediatrics, Oregon Health & Science University, Portland, OR; J.T. Rosenbaum, Casey Eye Institute, Oregon Health & Science University, Portland, OR; (**K-Award winner**)

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N. Schlesinger, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ; L. Rudolph, New Mexico Clinical Research & Osteoporosis Center, Albuquerque, NM; H. Lin, Taipei Veterans General Hospital, Taipei, Taiwan; M. De Meulemeester, Private Practice, Gozée, Belgium; E.L. Nasonov, Institute of Rheumatology RAMS, Moscow, Russian Federation; J. Rovensky, NURCH, Piestany, Slovakia; E.F. Mysler, OMI Organizacion Medica de Investigacion, Buenos Aires, Argentina; U. Arulmani, G. Krammer, A. Balfour, D. Richard, P. Sallstig, Novartis Pharma AG, Basel, Switzerland; A.K. So, CHU Vaudois, Lausanne, Switzerland.

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