

2010 COMBINED ANNUAL MEETING OF **CSCR & MWAFFMR**

# Final Program



# Chicago

April 22-23, **2010** SWISSÔTEL CHICAGO



Central Society for  
Clinical Research



Midwestern Section  
American Federation for  
Medical Research



NORTHWESTERN  
UNIVERSITY

Jointly presented by CSCR, MWAFFMR and Northwestern University's Feinberg School of Medicine

## Contact Information

---



### **Central Society for Clinical Research**

555 East Wells Street, Suite 1100

Milwaukee, WI 53202-3823

Phone: 414-273-2209 • Fax: 414-276-3349

E-mail: [cscr@execinc.com](mailto:cscr@execinc.com) • Web: [www.cscr.com](http://www.cscr.com)



### **Midwestern Section American Federation for Medical Research**

900 Cummings Center, Suite 221-U

Beverly, MA 01915

Phone: 978-927-8330 • Fax: 978-524-0461

Web: [www.afmr.org](http://www.afmr.org)

## 2010 Combined Annual Meeting

### Learning Objectives

The 2010 Combined Annual Meeting of the Central Society for Clinical Research (CSCR) and the Midwestern Section American Federation for Medical Research (MWAFMR) presents the Hickam Lecture, Keynote Speaker, two plenary sessions and an oral abstract session on topics of timely interest for researchers and physicians interested in the broad field of clinical research. Participants at the 2010 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 and oncology, nephrology, infectious disease, allergy, immunology and rheumatology;
- Explain the diagnosis and management of diseases and disorders across various subspecialties of medicine.

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of Northwestern University's Feinberg School of Medicine, the Central Society for Clinical Research, and the Midwestern Section American Federation for Medical Research. Northwestern University's Feinberg School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

### Credit Designation Statement

The Northwestern University's Feinberg School of Medicine designates this educational activity for a maximum of *7.5 AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## Continuing Medical Education

### CME Certificates

In order to obtain your *AMA PRA Category 1 Credits™* certificate for this activity, please complete the Credit Verification Form included in your folder. Forms should be completed in full and returned to the registration desk at the end of the meeting. Certificates will be mailed 3-4 weeks following the activity to the address provided on your registration form.

### Educational Support

This educational activity is supported by unrestricted educational grants from:

**Novo Nordisk • AstraZeneca • Amgen**

### Faculty/Speaker Disclosure Statement and Disclosure for Discussions of Off Label/ Investigational Use of Pharmaceutical Products

In accordance with ACCME Standards for Commercial Support of Continuing Medical Education and the Feinberg School of Medicine's disclosure policy for CME activities, faculty members have been asked to disclose any relationship they may have with commercial supporters of this CME activity or with companies providing products or medical equipment that may have relevance to the content of their presentations. Such disclosure is intended to provide participants with sufficient information to evaluate whether any given presentation has been influenced by the faculty's relationship(s) or financial interest with said companies.

This activity may include information regarding the off-label and/or investigational use(s) of various pharmacological agents. The faculty have disclosed below if they will be discussing a product which is still investigational or not labeled for the use under discussion.

This activity is being jointly sponsored by the Feinberg School of Medicine, the Central Society for Clinical Research and the Midwestern Section American Federation for Medical Research. The medical school has no significant relationship with the commercial companies whose products or services are being discussed in this educational activity.

#### Course Director's and Planning Committee Members' Disclosure Information:

Alan Buchman	States he has nothing to disclose.
Bradley Britigan	States he has nothing to disclose.
David Crabb	States he has nothing to disclose.
Brian Hoit	States he has nothing to disclose.
James Maloney	States he has nothing to disclose.
Abraham Thomas	Novo Nordisk, Takeda – Speaker (honoraria received) Sanofi Aventis – Speakers' Bureau (nothing received) PI or Co-PI for Grants/Clinical Trials supported by Eli Lilly, Amylin and Roche

#### Speakers', Moderators' and Panelists' Disclosure Information:

Francois Abboud	States he has nothing to disclose.
Diane Allen-Gipson	States she has nothing to disclose.
Pamela Davis	States she has nothing to disclose.
Ece Mutlu	States he has nothing to disclose.
XinQi Dong	States she has nothing to disclose.
Carmella Evans-Molina	States she has nothing to disclose.
Apar Kishor Ganti	States he has nothing to disclose.
C. Ronald Kahn	States he has nothing to disclose.
Lynell Klassen	States he has nothing to disclose.
Stuart Levin	States he has nothing to disclose.
James Liao	Boehringer Ingelheim – Speaker, Advisory Committee (consulting fee and honoraria received) AstraZeneca, Merck – Speaker (honoraria received)
Francis Miller	States he has nothing to disclose.
Sophie Paczesny	States she has nothing to disclose.
Plamen Penev	States he has nothing to disclose.
Jill Poole	States she has nothing to disclose.
Donald Steiner	States he has nothing to disclose.
Douglas Vaughan	Novartis, Xoma, Servier – Consultant (consulting fee received)
YeJia Zhang	States he has nothing to disclose.

## 2010 Combined Annual Meeting-At-A-Glance

Swissôtel Chicago • Chicago, Illinois • April 22-23, 2010

### Thursday, April 22, 2010

2:00 pm – 8:00 pm	Registration	Grand Ballroom Foyer
2:00 pm – 4:00 pm	CSCR Council Meeting	Alpine Ballroom I
2:00 pm – 5:00 pm	AFMR Career Development Workshop (2.5 CME Credits)	Alpine Ballroom II
3:00 pm – 5:00 pm	Poster Author Set-Up	Grand Ballroom
5:00 pm – 7:00 pm	Welcome Reception and Poster Session	Grand Ballroom
7:00 pm – 9:00 pm	Past Presidents' Reception	Grand Ballroom
6:30 pm – 10:00 pm	CSCR Sugar Club/Midwest Metabolism Dinner	Edelweiss Room

### Friday, April 23, 2010

7:30 am – 3:30 pm	Registration	Grand Ballroom Foyer
7:30 am – 9:00 am	Continental Breakfast	Grand Ballroom Foyer
8:00 am – 10:00 am	Poster Author Set-Up	Grand Ballroom
8:00 am – 8:15 am	Opening remarks by the CSCR President and MWFAMR President Presentation of Awards	Alpine Ballroom
8:15 am – 9:15 am	Department Chair Session #1 Stuart Levin, presiding <i>Rush University</i> (1.0 CME Credit)	Alpine Ballroom
9:15 am – 10:15 am	MWFAMR Keynote Speaker James K. Liao <i>Harvard Medical School</i> (1.0 CME credit)	Alpine Ballroom
10:15 am – 10:30 am	Coffee Break	Grand Ballroom Foyer
10:30 am – 11:30 am	Oral Abstract Session (1.0 CME Credit)	Alpine Ballroom
11:30 am – 11:45 am	CSCR Business Meeting	Alpine Ballroom
11:45 am – 12:30 pm	Lunch	Grand Ballroom
12:30 pm – 1:30 pm	Poster Session	Grand Ballroom
1:30 pm – 2:30 pm	CSCR Hickam Lecture C. Ronald Kahn <i>Harvard Medical School</i> (1.0 CME Credit)	Alpine Ballroom
2:30 pm – 3:30 pm	Department Chair Session #2 Lynell Klassen, presiding <i>University of Nebraska</i> (1.0 CME Credit)	Alpine Ballroom
4:00 pm – 7:00 pm	MWFAMR Scholar's Program	Location TBD

## 2010 Combined Annual Meeting Schedule

All sessions jointly presented by

Central Society for Clinical Research/Midwestern Section American Federation for Medical Research

### Thursday, April 22, 2010

2:00 pm – 5:00 pm

Alpine Ballroom II

#### **AFMR Career Development Workshop**

*Francis J. Miller, presiding*

Associate Professor of Medicine, University of Iowa  
Carver College of Medicine

President-Elect, American Federation for Medical  
Research

2:00

#### **Introduction to Workshop Goals and Objectives**

*Francis J. Miller, MD*

2:00

#### **The Physician Scientist of the 21<sup>st</sup> Century**

*Pamela B. Davis, MD PhD*

Dean, Case Western Reserve University, School of  
Medicine

2:40

#### **Question & Answer Session**

2:50

#### **The Beautiful Life of a Clinician Scientist**

*Francois M. Abboud, MD*

Edith King Pearson Chair in Cardiovascular Research  
Associate Vice President for Research

University of Iowa Carver College of Medicine

3:30

#### **Question & Answer Session**

3:40

#### **Break**

4:00

#### **Top Ten Attributes of a Successful Physician Scientist**

*Douglas E. Vaughan, MD*

Irving S. Cutter Professor of Medicine  
Chairman, Department of Medicine

Northwestern University Feinberg School of Medicine

4:40

#### **Question & Answer Session**

4:50

#### **Panel Discussion**

5:00 pm – 7:00 pm

Grand Ballroom

#### **Welcome Reception and Poster Session**

*A complete listing of posters is located at the back of  
this program.*

7:00 pm – 9:00 pm

Grand Ballroom

#### **Past Presidents' Reception**

6:30 pm – 10:00 pm

Edelweiss Room

#### **CSCR Sugar Club/Midwest Metabolism Dinner 50<sup>th</sup> Annual Max Miller Lecture in Diabetes Research**

*Donald F. Steiner, MD*

A. N. Pritzker Distinguished Service Professor  
Department of Medicine

Sections of Endocrinology, Diabetes & Metabolism  
University of Chicago Pritzker School of Medicine

#### **Insulin: Past, Present and Future**

#### **AFMR Scholar's Program**

On behalf of the Organizing Committee we would like to thank the sponsor of the Scholar's Program. The purpose of this program is to promote the careers of junior investigators by providing an opportunity for them to present their research in a critical but intimate and friendly environment and network with both established and early investigators in their area of interest. Industry representatives have kindly agreed to fund this program. The Scholar's Program is not a CME activity.

**Friday, April 23, 2010****8:00 am – 8:15 am** Alpine Ballroom**Opening remarks by David Crabb, CSCR President, and James Maloney, MWFMR Chair**

Presentation of Awards to Outstanding Young Investigator and Cardiovascular Award Winners  
 Recognition of CSCR Early Career Development Awardees and K Award Grant Winners

**Outstanding Young Investigator***Carmella Evans-Molina, Indiana University***PPAR-Gamma Activation Restores Pancreatic Islet Serca Levels and Prevents Beta Cell Dysfunction in Type 2 Diabetes****Cardiovascular Award***Xiaoguang Sun, University of Chicago***Functional Variants of Sphingosine-1-Phosphate Receptor 1 Gene Associated with Asthma Susceptibility****8:15 am – 9:15 am** Grand Ballroom**Department Chair Session #1***Stuart Levin, Presiding*

Rush University

The Ralph C. Brown, MD Professor of Medicine and Chair, Department of Medicine

**8:20 Elder Mistreatment: How Research Changed Practice and Policy***XinQi Dong, Assistant Professor of Medicine, Rush Institute for Healthy Aging***8:40 Intestinal Microbiota: Implications in Human Disease***Ece Mutlu, Assistant Professor of Medicine, Rush University***9:00 Cell Therapy for Degenerating Intervertebral Discs***YeJia Zhang, Assistant Professor of Medicine, Rush University***9:15 am – 10:15 am** Alpine Ballroom**MWFMR Keynote Speaker***James Maloney, Presiding***Pleiotropic Effects of Statins: From Bedside to Bench and Back***James K. Liao, MD*

Director, Vascular Medicine Research, Brigham & Women's Hospital  
 Professor of Medicine, Harvard Medical School

**10:15 am – 10:30 am****Intermission****10:30 am – 11:30 am** Alpine Ballroom**Oral Abstract Session***Bradley Britigan and Abraham Thomas, presiding***10:30 Frequency of CD4+CD25HIFOX3 Regulatory T Cells has Prognostic Value as a Biomarker for Acute Graft-Versus-Host Disease***Sophie Paczesny, University of Michigan***10:45 PPAR-Gamma Activation Restores Pancreatic Islet Serca Levels and Prevents Beta Cell Dysfunction in Type 2 Diabetes***Carmella Evans-Molina, Indiana University***11:00 Changes in Glucose Regulation During Caloric Restriction Combined with Partial Sleep Loss***Plamen Penev, University of Chicago***11:30 am – 11:45 am** Alpine Ballroom**CSCR Business Meeting****11:45 am – 1:30 pm** Grand Ballroom**Lunch and Poster Presentations**

*A complete listing of posters is located at the back of this program.*

**1:30 pm – 2:30 pm** Alpine Ballroom**CSCR Hickam Lecture**

David Crabb, presiding

**Tissue Insulin Resistance and the Origins of the Metabolic Syndrome***C. Ronald Kahn, MD*

Mary K. Iacocca Professor of Medicine  
 Harvard Medical School

**2:30 pm – 3:30 pm** Alpine Ballroom**Department Chair Session #2***Lynell Klassen, Presiding*

University of Nebraska

Henry J. Lehnhoff Professor of Medicine and Chair,  
 Department of Medicine

**2:30 Airways Disease in Farmers: Organic Dust Exposure Impairs Innate Immune Function***Jill A. Poole, Assistant Professor of Medicine, University of Nebraska***2:50 Adenosine Multidimensional Role in Airway Injury***Diane Allen-Gipson, Assistant Professor of Medicine, University of Nebraska***3:10 MUC-4 in Lung Cancer***Apar Kishor Ganti, Assistant Professor of Medicine, University of Nebraska*

## Moderated Poster Presentations

### Thursday, April 22, 2010

5:00 pm – 7:00 pm

#### Welcome Reception and Poster Session

**Moderator:** Virginia Savin, Professor of Medicine, University of Kansas Medical Center

#### **130 RARE GENOMIC VARIANTS CONTRIBUTE TO SYSTOLIC BLOOD PRESSURE VARIATION IN THE FRAMINGHAM HEART STUDY**

*Presenter: Berit Kerner, University of California, Los Angeles*

**Moderator:** Edward Lesnefsky, Professor of Medicine and Biochemistry; Chief, Cardiology Section, Virginia Commonwealth University

#### **66 FUNCTIONAL VARIANTS OF SPHINGOSINE-1-PHOSPHATE RECEPTOR 1 GENE ASSOCIATE WITH ASTHMA SUSCEPTIBILITY**

*Presenter: Xiaoguang Sun, University of Chicago*

**Moderator:** Edward Lesnefsky, Professor of Medicine and Biochemistry; Chief, Cardiology Section, Virginia Commonwealth University

#### **28 TRANSIENT RECEPTOR POTENTIAL VANILLOID 2 (TRPV2) STIMULATION IS CARDIOPROTECTIVE**

*Presenter: Jack Rubinstein, University of Cincinnati*

### Friday, April 23, 2010

12:30 pm – 1:30 pm

#### Luncheon Poster Session

**Moderator:** Nalini Rajamannan, Associate Professor of Medicine, Northwestern University Feinberg School of Medicine

#### **131 STEM CELLS CULTURED FROM OMENTUM-INDUCED REGENERATING LIVER CAN BE DIFFERENTIATED TO HEPATOCYTES**

*Presenter: Nishit Pancholi, Hektoen Institute of Medicine*

**Moderator:** Nalini Rajamannan, Associate Professor of Medicine, Northwestern University Feinberg School of Medicine

#### **73 FOXM1 IS UPREGULATED BY NON-DIABETIC OBESITY AND STIMULATES PANCREATIC $\beta$ -CELL PROLIFERATION**

*Presenter: Dawn Davis, University of Wisconsin*

**Moderator:** Nalini Rajamannan, Associate Professor of Medicine, Northwestern University Feinberg School of Medicine

#### **29 GERMLINE POLYMORPHISM DISCOVERED VIA A CELL-BASED GENOME-WIDE APPROACH PREDICTS PLATINUM RESPONSE IN OVARIAN AND HEAD AND NECK CANCERS**

*Presenter: R. Stephanie Huang, University of Chicago*

## Welcome Reception and Poster Session

Thursday, April 22, 2010 • 5:00 pm – 7:00 pm • Grand Ballroom

Jointly presented by

Central Society for Clinical Research/Midwestern Section American Federation for Medical Research

### Disease Modulation/Intervention

- 2 METHYLNALTREXONE INHIBITS EGF-INDUCED HUMAN BRONCHIOLOALVEOLAR CARCINOMA PROLIFERATION AND MIGRATION: ROLE OF THE MU OPIOID RECEPTOR, SRC, GAB1, PI3 KINASE AND STAT3.**  
*FE Lennon, N Mambetsariev, R Salgia, J Moss, JN Garcia and PA Singleton, Chicago, IL. University of Chicago*
- 4 THE IMPACT OF LY2189265 (GLP-1 ANALOG) ON GLYCEMIC CONTROL IN HISPANIC AND NON-HISPANIC CAUCASIANS WITH UNCONTROLLED TYPE 2 DIABETES: AN EGO STUDY ANALYSIS.**  
*J Noriega, F Botros, R Threlkeld, J Shu, J Anderson, L Glass and E Bastyr, Indianapolis, IN and Ann Arbor, MI. Indiana University School of Medicine (Trainee Travel Award Winner)*
- 6 NEURONAL GUANYLYL CYCLASE C REGULATES APPETITE AND BODY WEIGHT.**  
*M Valentino, JE Lin, P Li, A Snook, G Marszalowicz, S Schulz and SA Waldman, Philadelphia, PA. Thomas Jefferson University (Trainee Travel Award Winner, APSA Award Winner, MWAFFMR Scholar's Program Award Winner)*
- 8 CHILD MANIA RATING SCALE: A VALID PARENT-RATED PHARMACOTHERAPY OUTCOME MEASURE.**  
*AE West, CI Celio, DB Henry and MN Pavuluri, Chicago, IL. University of Illinois at Chicago*
- 10 COMPARATIVE STUDY ON THE PHARMACOKINETIC PROFILE OF SOTALOL FOLLOWING ORAL AND INTRAVENOUS ADMINISTRATION.**  
*JC Somberg, RA Preston, VV Ranade, Z Molnar, T Somberg and J Molnar, Chicago, IL, Miami, FL, New York, NY and Lake Bluff, IL. Rush University*
- 12 THROMBOPHILIC HYPERHOMOCYSTEINEMIA, RETINAL VEIN AND ARTERY OCCLUSION, AND NON-ARTERITIC ISCHEMIC OPTIC NEUROPATHY.**  
*N Khan, M Umar, CJ Glueck, K Riaz, AA Khan, R Hutchins and P Wang, Cincinnati, OH. Jewish Hospital (Trainee Travel Award Winner)*
- 14 THROMBOPHILIC HIGH FACTOR XI IS A REVERSIBLE ETIOLOGY FOR RECURRENT PREGNANCY LOSS.**  
*M Maddipati, AA Khan, M Gowda, S Ali, G Tindoni, W Ahmed and CJ Glueck, Cincinnati, OH. Jewish Hospital of Cincinnati (Trainee Travel Award Winner)*
- 16 BODY IMAGE INTERVENTION IMPROVES HEALTH OUTCOMES IN SYSTEMIC LUPUS ERYTHEMATOSUS.**  
*M Jolly, KF Peters, TF Cash, RA Mikolaitis, W Gao and JA Block, Chicago, IL, Columbia, MO and Norfolk, VA. Rush University Medical Center*
- 18 OPTIMIZATION OF LDL CHOLESTEROL, TRIGLYCERIDES, HDL CHOLESTEROL AND AMELIORATION OF CARDIOVASCULAR EVENTS IN 326 PATIENTS, AGE  $\geq$  50 AT ENTRY, WHO HAD  $\geq$ 10 YEARS FOLLOW-UP, WITH MEDIAN AGE 79 AT LAST FOLLOW-UP.**  
*M Gowda, AA Khan, M Maddipati, P Raj, M Juyal, M Umar, W Ahmed, P Wang and CJ Glueck, Cincinnati, OH. Jewish Hospital of Cincinnati*
- 20 PANCREATO-LIVER ABSCESS IN A PATIENT WITH HISTORY OF CHRONIC PANCREATITIS.**  
*MZ Bawany and T Sodeman, Toledo, OH. University of Toledo Medical Center*
- 22 REFRACTORY IDIOPATHIC THROMBOCYTOPENIC PURPURA.**  
*N Mishra and A Chandra, Brooklyn, NY. Coney Island Hospital*
- 24 CHANGES IN GLUCOSE REGULATION DURING CALORIC RESTRICTION COMBINED WITH PARTIAL SLEEP LOSS.**  
*JN Booth, Chicago, IL. University of Chicago*
- 26 IMPACT OF INTERACTIVE HOME BLOOD PRESSURE MONITORING ON A HYPERTENSIVE MEDICARE POPULATION.**  
*M Wade, MC Ruddy, R Lonny, P Kummer, A Snyder and R Krakauer, Princeton, NJ. Aetna*

## Welcome Reception and Poster Session

Thursday, April 22, 2010 • 5:00 pm – 7:00 pm • Grand Ballroom

### Disease Modulation/Intervention

- 28 TRANSIENT RECEPTOR POTENTIAL VANILLOID 2 (TRPV2) STIMULATION IS CARDIOPROTECTIVE.**  
A Anjak, L Haar, T Forde, M Jiang, X Ren, N Weintraub, K Jones and J Rubinstein, Cincinnati, OH. *University of Cincinnati (Trainee Travel Award Winner)*
- 30 EPHRINB2 REGULATES TUMOR MICROENVIRONMENTAL CONSTITUENTS.**  
X Luo, E Westly, RJ Klein and KS Cohen, Chicago, IL and Boston, MA. *University of Chicago*
- 32 GRANULATION TISSUE DERIVED STEM CELLS PREVENT RENAL DAMAGE AND ACCELERATE RECOVERY FROM ACUTE RENAL FAILURE.**  
J Patel, N Pancholi, KP Gudehithlu, JA Arruda, G Dunea and AK Singh, Chicago, IL. *Hektoen Institute of Medicine*
- 34 A RANDOMIZED CONTROLLED TRIAL OF A PRIMARY CARE INTERNET BASED DEPRESSION PREVENTION INTERVENTION FOR ADOLESCENTS (CATCH-IT): 12-MONTH OUTCOMES.**  
BW Van Voorhees, Chicago, IL. *University of Chicago (K Award Grant Winner)*
- 36 THE NOVEL S-PHOSPHONATE ANALOG OF FTY720 REGULATES PULMONARY VASCULAR PERMEABILITY.**  
L Wang, S Camp, R Bittman, J Garcia and S Dudek, Chicago, IL and New York, NY. *University of Chicago (Trainee Travel Award Winner)*
- 38 DEVELOPMENT OF FUNCTIONAL NATURAL KILLER CELLS FROM HUMAN PLURIPOTENT STEM CELLS.**  
D Knorr, Z Ni and D Kaufman, Minneapolis, MN. *University of Minnesota (Trainee Travel Award Winner)*

### Mechanisms of Disease

- 40 RESPIRATORY SYNCYTIAL VIRUS LIMITS  $\alpha$  SUBUNIT OF TRANSLATION INITIATION FACTOR (EIF2 $\alpha$ ) PHOSPHORYLATION TO MAINTAIN TRANSLATION AND VIRAL REPLICATION.**  
DJ Groskreutz, EC Babor, MM Monick, SM Varga and GW Hunninghake, Iowa City, IA. *University of Iowa (K Award Grant Winner)*
- 42 PPAR-GAMMA ACTIVATION RESTORES PANCREATIC ISLET SERCA LEVELS AND PREVENTS BETA CELL DYSFUNCTION IN TYPE 2 DIABETES.**  
T Kono, L Gann, D Moss, T Ogihara and C Evans-Molina, Indianapolis, IN. *Indiana University (Trainee Travel Award Winner, K Award Grant Winner, Outstanding Young Investigator Award Winner)*
- 44 MECHANISMS OF ALDOSTERONE ACTION ON NCC.**  
B Ko, L Cooke and R Hoover, Chicago, IL. *Univ. of Chicago (K Award Grant Winner)*
- 46 TRANSCRIPTIONAL REGULATION OF HYPEROXIA-INDUCED NOX4 EXPRESSION IN LUNG ENDOTHELIUM BY NRF2-ANTIOXIDANT RESPONSE ELEMENT.**  
S Pendyala, J Moitra, S Kalari, IA Gorshkova, Y Zhao, D He, JG Garcia and V Natarajan, Chicago, IL. *University of Chicago (Trainee Travel Award Winner)*
- 48 THE ASSOCIATION OF CD 14 LEVELS WITH THE DEVELOPMENT OF ABDOMINAL AORTIC ANEURYSMS.**  
S Collins, AL Blomkalns, CJ Lindsell, M Sperling, S Pinney, J Buckholtz, M Thomas, M McCormick, L Stoll, T Chatterjee, Z Qin and N Weintraub, Cincinnati, OH and Iowa City, IA. *University of Cincinnati (Trainee Travel Award Winner, K Award Grant Winner)*
- 50 ASBESTOS INDUCES AN ENDOPLASMIC RETICULUM STRESS RESPONSE IN ALVEOLAR EPITHELIAL CELLS.**  
R Beri, G Liu, A Mueller, HE Trejo and DW Kamp, Chicago, IL. *McGaw Medical Center of Northwestern University*
- 52 AROMATIC AMINES EXERT CONTRASTING EFFECTS ON THE ANTI-COAGULANT EFFECT OF ACETALDEHYDE UPON APTT.**  
AS Brecher, L Hall and SJ Murrey, Bowling Green, OH. *Bowling Green State University*



## Welcome Reception and Poster Session

Thursday, April 22, 2010 • 5:00 pm – 7:00 pm • Grand Ballroom

### Mechanisms of Disease

- 80 EFFECT OF CHOLESTEROL CRYSTALS ON THROMBOLYSIS WITH TISSUE PLASMINOGEN ACTIVATOR.**  
*KK Narisetty, R Huang, A Vedre, UU Tamhane, M Beasley, M Rich and GS Abela, Lansing, MI. Michigan State University*
- 82 SPHINGOSINE KINASE-2 MEDIATED PRODUCTION OF SPHINGOSINE-1-PHOSPHATE: A NEW FUNCTION IN MITOCHONDRIAL RESPIRATION.**  
*M Paillard, J Liang, GM Strub, L Gomez, NC Hait, S Milstien, S Spiegel and EJ Lesnefsky, Richmond, VA and Lyon, France. University of Lyon*
- 84 REGULATION OF LUNG ENDOTHELIAL PERMEABILITY BY OXIDIZED PHOSPHOLIPIDS.**  
*V Starosta, N Moldobaeva, A Birukova and K Birukov, Chicago, IL. University of Chicago (Trainee Travel Award Winner)*
- 86 SYSTEMIC AUTOREACTIVE T AND B CELLS INDUCE DEVELOPMENT OF BRONCHUS-ASSOCIATED LYMPHOID TISSUE (BALT) IN THE LUNG.**  
*Q Wu, E Berry, T Lu, J Moreno, H Huang and RA Shilling, Chicago, IL. University of Chicago (K Award Grant Winner)*
- 88 TRANSCRIPTIONAL REGULATION AND POST-TRANSLATIONAL MODIFICATION OF SPHINGOSINE-1-PHOSPHATE LYASE IN LPS-INDUCED ACUTE LUNG INJURY.**  
*W Ma, Y Zhao, S Pendyala, D He, E Berdyshev, L Moreno-Vinasco, B Oskouian, JD Saba, JG Garcia and V Natarajan, Chicago, IL and Oakland, CA. University of Chicago (Trainee Travel Award Winner)*
- 90 PITUITARY-ADRENAL FUNCTION AFTER TOTAL BODY IRRADIATION: EFFECT OF HEAD SHIELDING.**  
*E Cohen, ED Bruder, BM Jankowski and H Raff, Milwaukee, WI. Medical College of Wisconsin*
- 92 TRANSGENIC EXPRESSION OF S100A12 IN VASCULAR SMOOTH MUSCLE ACCELERATES ATHEROCLEROSIS AND PROMOTES CALCIFICATION.**  
*MA Hofmann Bowman, J Gawdzik, J Earle, G Kim and E McNally, Chicago, IL, IL. University of Chicago Medical Center (K Award Grant Winner)*
- 94 PBEF GENE POLYMORPHISMS ARE ASSOCIATED WITH ACUTE LUNG INJURY IN US- AND SPANISH-BASED COHORTS.**  
*MS Wade, S Ma, JD Christie, C Flores and JG Garcia, Chicago, IL, Philadelphia, PA and Tenerife, Spain. University of Chicago*
- 96 CHARACTERIZATION OF PAXILLIN INTERACTION WITH  $\beta$ -CATENIN: IMPLICATION IN ENDOTHELIAL BARRIER PROTECTION.**  
*O Dubrovskiy, V Poroyko, B Yakubov, A Birukova and K Birukov, Chicago, IL. University of Chicago*
- 98 PHARMACO-PROTEOMICS AT THE BEDSIDE: A STUDY OF TPA TREATMENT IN ACUTE STROKE PATIENTS.**  
*M Ning, D Sarracino, F Buonanno, A Kho, B Krastins, S Chou, D McMullin and EH Lo, Boston, MA. Massachusetts General Hospital/Harvard Medical School (Trainee Travel Award Winner, K Award Grant Winner, MWAFMR Scholar's Program Award Winner)*
- 100 MODULATION OF MITOCHONDRIAL RESPIRATION BEFORE ISCHEMIA PREVENTS MITOCHONDRIAL PERMEABILITY TRANSITION PORE OPENING DURING REPERFUSION IN ISOLATED RAT HEARTS.**  
*Q Chen and EJ Lesnefsky, Richmond, VA. McGuire Department of Veterans Affairs Medical Center and Virginia Commonwealth University*
- 102 T-786 C POLYMORPHISM OF THE ENDOTHELIAL NITRIC OXIDE SYNTHASE GENE AND NEURALGIA-INDUCING CAVITATIONAL OSTEO NECROSIS OF THE JAWS.**  
*NA Khan, W Ahmed, MK Riaz, I Naqvi, AA Khan, M Juyal and CJ Glueck, Cincinnati, OH. Jewish Hospital (K Award Grant Winner)*

## Welcome Reception and Poster Session

Thursday, April 22, 2010 • 5:00 pm – 7:00 pm • Grand Ballroom

### Observational Science

- 104 IMPACT OF FDA BLACK BOX ADVISORY ON ANTIPSYCHOTIC MEDICATION USE.**  
R Dorsey, A Rabbani, S Gallagher, R Conti and G Alexander, Chicago, IL and Rochester, NY. *University of Rochester (K Award Grant Winner)*
- 106 COMPARISON OF NOVEL EARLY BIOMARKERS OF ACUTE KIDNEY INJURY (AKI) TO PREDICT THE COURSE AND SEVERITY OF AKI DEVELOPING AFTER CARDIAC SURGERY.**  
J Koyner, P Devarajan, V Vaidya and PT Murray, Chicago, IL, Cincinnati, OH, Boston, MA and Dublin, Ireland. *University of Chicago (K Award Grant Winner)*
- 108 PREDICTORS OF SURVIVAL IN PATIENTS WITH PROSTATE CANCER AND SPINAL METASTASIS.**  
D Drzymalski, W Oh, P Kantoff and S Tuli, Boston, MA. *Harvard Medical School (Trainee Travel Award)*
- 110 PREOPERATIVE ANTIPLATELET THERAPY WITH CLOPIDGREL AND ASPIRIN: PLATELET MAPPING, PLATELET INHIBITION AND PERIOPERATIVE SAFETY IMPLICATIONS.**  
D Cattano, A Altamirano, C Hagberg and E Pivalizza, Houston, TX. *University of Texas, HSC Houston*
- 112 NON-MUSCLE MLCK IS A KEY REGULATOR OF HYPEROXIA-INDUCED NADPH OXIDASE ACTIVATION AND ROS GENERATION IN CAVEOLIN-ENRICHED MICRODOMAINS OF LUNG ENDOTHELIUM.**  
PV Usatyuk, PA Singleton, S Pendyala, SK Kalari, D He, IA Gorshkova, SM Camp, J Moitra, SM Dudek, JG Garcia and V Natarajan, Chicago, IL. *The University of Chicago*
- 114 A COMPARISON OF MORTALITY AND MORBIDITY IN MULTIPLE VERSUS SINGLETON VERY LOW BIRTH WEIGHT INFANTS.**  
N Billock, V Dryfhout, K Brady and H Falciglia, Cincinnati, OH. *Good Samaritan Hospital*
- 116 FREQUENCY OF CD4+CD25HIFOXp3+ REGULATORY T CELLS HAS PROGNOSTIC VALUE AS A BIOMARKER FOR ACUTE GRAFT-VERSUS-HOST DISEASE.**  
JM Magenau, X Qin, I Tawara, CE Rogers, M Schlough, D Bickley, P Yang, TM Braun, K Lowler, DM Jones, SW Choi, S Mineishi, JE Levine, P Reddy, JL Ferrara and S Paczesny, Ann Arbor, MI. *University of Michigan*
- 118 PREVALENCE AND CHARACTERISTICS OF PSYCHIATRIC ILLNESS IN A LARGE COMMUNITY EMERGENCY DEPARTMENT.**  
H Loud, B St. Amour, K Johnson, K Scarce and J Walker, Wyandotte, MI. *Henry Ford Wyandotte Hospital (Trainee Travel Award Winner)*
- 120 EVALUATION OF BACILLUS ANTHRACIS SPORE UPTAKE AND DISTRIBUTION IN RESIDENT IMMUNE CELLS IN A HUMAN LUNG ORGAN CULTURE MODEL OF INHALATIONAL ANTHRAX.**  
M Langer, J Booth, TZ Veres, F Prenzler, K Sewald, W Wu, K Coggeshall, A Braun and JP Metcalf, Oklahoma City, OK and Hanover, Germany. *University of Oklahoma Health Sciences Center*
- 122 THE EFFECT OF QUADRICEPS STRENGTH AND PROPRIOCEPTION ON RISK FOR KNEE OSTEOARTHRITIS.**  
NA Segal, N Glass, DT Felson, M Hurley, M Yang, M Nevitt, CE Lewis and JC Torner, Iowa City, IA, Boston, MA, London, United Kingdom, San Francisco, CA and Birmingham, AL. *The University of Iowa (K Award Grant Winner)*
- 124 EPIDEMIOLOGY OF VITMAIN D DEFICIENCY IN PATIENTS REFERRED FOR MANAGEMENT OF HYPERLIPIDEMIA & ITS ASSOCIATION WITH STATIN INDUCED MYALGIAS.**  
W Ahmed, N Khan, M Gowda, M Maddipati, N Goldenberg, A Khan and C Glueck, Cincinnati, OH. *Jewish Hospital Cincinnati (Trainee Travel Award Winner)*
- 126 DYNAMIC REGULATION OF CARDIAC ATP-SENSITIVE POTASSIUM CHANNEL EXPRESSION UNDERLIES ADAPTATION TO EXERCISE.**  
LV Zingman, Z Zhu, A Sierra, E Stepniak and D Hodgson-Zingman, Iowa City, IA. *University of Iowa (K Award Grant Winner)*

## Welcome Reception and Poster Session

Thursday, April 22, 2010 • 5:00 pm – 7:00 pm • Grand Ballroom

### Observational Science

- 128 INTEGRIN  $\beta$ 4 IS ESSENTIALLY INVOLVED IN SIMVASTATIN-MEDIATED ATTENUATION OF MURINE ACUTE LUNG INJURY.**  
*W Chen, S Sammani, B Mathew, JR Jacobson and JG Garcia, Chicago, IL. University of Chicago (Trainee Travel Award Winner)*
- 130 RARE GENOMIC VARIANTS CONTRIBUTE TO SYSTOLIC BLOOD PRESSURE VARIATION IN THE FRAMINGHAM HEART STUDY.**  
*B Kerner and BO Muthén, Los Angeles, CA. UCLA (K Award Grant Winner)*
- 132 THE EPIDEMIOLOGY OF PULMONARY FIBROSIS IN THE VETERANS POPULATION.**  
*AK Gerke and GW Hunninghake, Iowa City, IA. University of Iowa (Trainee Travel Award Winner, K Award Grant Winner)*
- 134 DIESEL EXHAUST PARTICLES INDUCE DISSOCIATION OF OCCLUDIN AND ZONULA OCCLUDENS 1 (ZO-1) IN ALVEOLAR EPITHELIAL CELLS.**  
*AP Comellas, JC Caraballo, W Westphal, T Moninger, Iowa City, IA. University of Iowa*

## Combined Poster Session and Lunch

Friday, April 23, 2010 • 11:45 am – 1:30 pm • Grand Ballroom

Jointly presented by

Central Society for Clinical Research/Midwestern Section American Federation for Medical Research

### Disease Modulation/Intervention

- 1 FACTOR V LEIDEN HETEROZYGOSITY, AN ETIOLOGY FOR IDIOPATHIC INTRACRANIAL HYPERTENSION.**  
 SS Ali, A Khan, M Umar, M Maddipati, P Wang and CJ Glueck, Cincinnati, OH. *Jewish Hospital of Cincinnati (Trainee Travel Award Winner)*
- 3 C1INH INHIBITS HABP2-MEDIATED HUMAN PULMONARY ENDOTHELIAL CELL BARRIER DYSFUNCTION.**  
 N Mambetsariev, T Mirzapozazova, S Sammani, L Moreno-Vinasco, JN Garcia and PA Singleton, Chicago, IL. *University of Chicago*
- 5 SPECIFICITY OF A SYMMETRIC BENZIMIDAZOLE HELICASE INHIBITOR.**  
 C Belon, YD High, T Lin, F Pauwels and DN Frick, Valhalla, NY and Mechelen, Belgium. *New York Medical College (Trainee Travel Award Winner)*
- 7 INTEGRATION OF PRENATAL CARE WITH THE TESTING AND TREATMENT OF HIV AND SYPHILIS IN PERU.**  
 A Castro and U Sandesara, Boston, MA and Philadelphia, PA. *Harvard University (Trainee Travel Award Winner)*
- 9 HIGH FACTOR XI, RECURRENT PREGNANCY LOSS, ENOXAPARIN.**  
 AA Khan, N Khan, K Riaz, K Chavan, P Raj, M Maddipati, M Umar, M Gowda, CJ Glueck, J Pranikoff and P Wang, Cincinnati, OH and Cincinnati, OH. *Jewish Hospital of Cincinnati (Trainee Travel Award Winner)*
- 11 INTRAVENOUS ADMINISTRATION OF SOTALOL RESULTS IN LESS VARIABILITY IN SERUM LEVELS THAN NASOGASTRIC DRUG DELIVERY.**  
 J Molnar, VV Ranade and JC Somberg, Lake Bluff, IL and Chicago, IL. *Academic Pharmaceuticals*
- 13 EFFICACY AND SAFETY OF INCREASING LOVAZA TO 6-8-12-16 G/D IN PATIENTS WITH TRIGLYCERIDE >300MG/DL DESPITE INITIAL MAXIMAL THERAPY WITH DIET-FIBRIC ACID-LOVAZA 4G/DAY: A 9 MONTH PROSPECTIVE STUDY.**  
 AA Khan, P Raj, M Umar, LR Knoop, SS Ali, N Khan, M Maddipati, P Wang and CJ Glueck, Cincinnati, OH. *Jewish Hospital of Cincinnati*
- 15 FEASIBILITY STUDY OF PARTNER-ASSISTED THERAPY (PAT) DEMONSTRATES SAFETY AND ACCEPTABILITY OF TREATMENT.**  
 AR Brandon, NL Ceccotti and RB Jarrett, Dallas, TX. *University of Texas Southwestern Medical Center (K Award Grant Winner)*
- 17 OPTIMIZATION OF LDL CHOLESTEROL, TRIGLYCERIDES, HDL CHOLESTEROL AND AMELIORATION OF CARDIOVASCULAR EVENTS IN 190 PATIENTS, WHO HAD ≥5 YEARS FOLLOW-UP, AND MEDIAN AGE 83 YEARS AT LAST FOLLOW-UP.**  
 M Gowda, AA Khan, P Raj, M Juyal, M Maddipati, M Umar, S Kumar, W Ahmed, P Wang and CJ Glueck, Cincinnati, OH. *Jewish Hospital of Cincinnati*
- 19 ANOMALOUS RIGHT CORONARY ARTERY AND LEFT VENTRICULAR OUTFLOW TRACT OBSTRUCTION: A RARE COMBINATION.**  
 MZ Bawany, B Saeed and A Mutgi, Toledo, OH. *University of Toledo Medical Center*
- 21 CORRELATION OF POLYMORPHONUCLEAR LEUKOCYTOSIS ON ENDOCERVICAL GRAM STAIN WITH A FINAL DIAGNOSIS OF CHLAMYDIA AT A SEXUALLY TRANSMITTED INFECTIONS CLINIC IN SANGAMON COUNTY, ILLINOIS.**  
 V Sundareshan, D Hunt and NM Khardori, Springfield, IL. *Southern illinois University*
- 23 EVIDENCE BASE FOR GENETIC TESTING AND SCREENING IN SUDDEN CARDIAC DEATH.**  
 SM Modell, Ann Arbor, MI. *University of Michigan School of Public Health*

## Combined Poster Session and Lunch

Friday, April 23, 2010 • 11:45 am – 1:30 pm • Grand Ballroom

### Mechanisms of Disease

- 25 BIOLOGICAL EFFECTS OF MINDFULNESS-BASED RELAPSE PREVENTION IN ALCOHOL DEPENDENCE: PILOT CLINICAL TRIAL.**  
A Zgierska, D Rabago, F Lerner, V Goodman and C Coe, Madison, WI. *University of Wisconsin-Madison, School of Medicine and Public Health (Trainee Travel Award Winner)*
- 27 LACTOFERRIN MODULATION OF MYCOBACTERIAL CORD FACTOR TREHALOSE 6,6'-DIMYCOLATE INDUCED GRANULOMATOUS RESPONSE.**  
KJ Welsh, S Hwang, ML Kruzel and JK Actor, Houston, TX. *UTHSC Houston (Trainee Travel Award Winner)*
- 29 GERMLINE POLYMORPHISM DISCOVERED VIA A CELL-BASED GENOME-WIDE APPROACH PREDICTS PLATINUM RESPONSE IN OVARIAN AND HEAD AND NECK CANCERS.**  
R Huang, SE Johnatty, E Gamazon, H Im, D Ziliak, W Zhang, P Chen, J Beesley, PH O'Donnell, S Das, NJ Cox, EE Vokes, A deFazio, G Chenevix-Trench, EE Cohen and M Dolan, Chicago, IL, Sydney, ACT, Australia and Brisbane, QLD, Australia. *University of Chicago (Trainee Travel Award Winner, K Award Grant Winner)*
- 31 ATORVASTATIN ATTENUATES LRP5/SOX9 MEDIATES DEGENERATIVE JOINT DISEASE AND CARDIOVASCULAR CALCIFICATION IN THE HYPERCHOLESTEROLEMIC APOE NULL MICE.**  
J Park, B Krueger, A Flores, N Basu and NM Rajamannan, Chicago, IL. *Northwestern University*
- 33 FUSION OF ACTIVATED OMENTUM WITH KIDNEY PREVENTS PROGRESSION OF CHRONIC KIDNEY DISEASE.**  
J Patel, KP Gudehithlu, N Pancholi, JA Arruda, G Dunea and AK Singh, Chicago, IL. *Hektoen Institute of Medicine*
- 35 DELAYED CYTOPROTECTION MEDIATES AMIFOSTINE PROTECTIVE EFFECTS ON MOUSE MODEL OF VENTILATOR-INDUCED LUNG INJURY.**  
P Fu, AA Birukova, JS Murley, DJ Grdina and KG Birukov, Chicago, IL. *University of Chicago (Trainee Travel Award Winner)*
- 37 POSTCONDITIONING DECREASES CARDIAC INJURY BY PREVENTING MITOCHONDRIAL PERMEABILITY TRANSITION PORE OPENING WITHOUT IMPROVING OXIDATIVE PHOSPHORYLATION.**  
Q Chen, M Paillard, L Gomez, Y Hu and EJ Lesnefsky, Richmond, VA and Lyon, France. *McGuire Department of Veterans Affairs Medical Center and Virginia Commonwealth University*
- 39 DEMOGRAPHIC AND BEHAVIORAL PREDICTORS OF SERUM 16 ALPHA-HYDROXYESTRONE, AN ESTROGEN METABOLITE ASSOCIATED WITH LOWER SYSTOLIC BLOOD PRESSURE.**  
CM Masi, S Patel, LC Hawkey and JT Cacioppo, Chicago, IL. *University of Chicago (K Award Grant Winner)*
- 41 STIMULATION OF NCC ACTIVITY BY ALDOSTERONE.**  
B Ko, L Cooke and R Hoover, Chicago, IL. *University of Chicago (K Award Grant Winner)*
- 43 LOW SERUM 25(OH) VITAMIN D LEVELS (<32NG/ML) ARE ASSOCIATED WITH REVERSIBLE MYOSITIS-MYALGIA IN STATIN-TREATED PATIENTS.**  
A Ahmad, HS Bhella, M Umar, N Khan, AA Khan, W Ahmed, CJ Glueck, P Wang and N Goldenberg, Cincinnati, OH. *Jewish Hospital of Cincinnati (Trainee Travel Award Winner)*
- 45 GENETIC DELETION OF NOS3 INCREASES LETHAL CARDIAC DYSFUNCTION FOLLOWING MOUSE CARDIAC ARREST.**  
DG Beiser, GA Orbelyan, BT Inouye, KJ Hamann, EM McNally and TL Vanden Hoek, Chicago, IL. *University of Chicago (Trainee Travel Award Winner, K Award Grant Winner)*
- 47 CIGARETTE SMOKE INDUCES CELLULAR SENESCENCE VIA P53-MEDIATED WRN PROTEIN DOWNREGULATION.**  
T Nyunoya, MM Monick, G Lysek, S Huneidi, J Jang, A Klingelhutz and G Hunninghake, Iowa City, IA. *University of Iowa (Trainee Travel Award Winner, K Award Grant Winner)*

## Combined Poster Session and Lunch

Friday, April 23, 2010 • 11:45 am – 1:30 pm • Grand Ballroom

### Mechanisms of Disease

- 49 POLYMYALGIA RHEUMATICA MASQUERADING AS STATIN INDUCED MYALGIA.**  
AA Khan, M Maddipati, M Gowda, A Khan, S Ali, N Khan and CJ Glueck, Cincinnati, OH. *Jewish Hospital of Cincinnati (Trainee Travel Award Winner)*
- 51 OX40 INDUCES CCL20 EXPRESSION IN THE CONTEXT OF ANTIGEN STIMULATION: AN EXPANDING ROLE OF CO-STIMULATORY MOLECULES IN CHEMOTAXIS.**  
Z Zhang, W Zhong, D Hinrichs and JT Rosenbaum, Portland, OR. *Oregon Health & Science University (K Award Grant Winner)*
- 53 PROMOTER VARIANT OF PIK3C3 LINKED TO SCHIZOPHRENIA SUSCEPTIBILITY IS ASSOCIATED WITH SEROLOGIC PROFILE AND SERUM IFN- $\alpha$  IN LUPUS PATIENTS.**  
SN Kariuki, BS Franek, R Mikolaitis, M Jolly, TO Utset, AD Skol and TB Niewold, Chicago, IL. *University of Chicago*
- 55 REGULATION OF HEME-OXYGENASE-1 PROTEIN EXPRESSION VIA EXPRESSION OF MICRORNAS 377 AND 217.**  
JD Beckman, J Nguyen, V Thayanithy, S Subramanian, CJ Steer and GM Vercellotti, Minneapolis, MN. *University of Minnesota (APSA Award Winner, MWFAMR Scholar's Program Award Winner)*
- 57 GUT STERILIZATION REDUCES SEVERITY OF INFLAMMATION, DISEASE ACTIVITY, LEUKOCYTE INFILTRATION AND ANGIOGENESIS IN THE MOUSE DSS COLITIS MODEL.**  
J Olinde, A Tatum, A Sheth, M Patel, P Jordan, W Cromer, MH Jennings, S Wells and JS Alexander, Shreveport, LA. *Louisiana State University Health Sciences Center*
- 59 EPIGENETIC REGULATION OF SOLUBLE ST2 BY LPA IN HUMAN BRONCHIAL EPITHELIAL CELLS.**  
H Li, Q Chen, E Spannhake, V Natarajan and Y Zhao, Chicago, IL and Baltimore, MD. *Medicine, The University of Chicago (Trainee Travel Award Winner)*
- 61 THE 'EMPTY HEART SYNDROME': ANALYSIS OF PR-INTERVAL SHORTENING AND THE DEVELOPMENT OF NEUROCARDIOGENIC SYNCOPE DURING TILT TABLE TEST.**  
L Saju, K Mayuga, J Bena, H Wang and F Fouad-Tarazi, Cleveland, OH, Davis, CA and New Smyrna Beach, FL. *Cleveland Clinic*
- 63 NATURAL KILLER CELLS AND INTERFERON-GAMMA MEDIATE LIVER INJURY IN A MURINE MODEL OF HALOTHANE HEPATITIS.**  
CM Dugan, RA Roth and PE Ganey, East Lansing, MI. *Michigan State University (Trainee Travel Award Winner)*
- 65 EXPRESSION OF MATRIX METALLOPROTEINASES ARE SIGNIFICANTLY INCREASED IN THE PAPILLARY THYROID CARCINOMA CELL LINE, BCPAP AND ENHANCE INVASION BY EXTRACELLULAR MATRIX DEGRADATION.**  
NT Kummer, TS Nowicki, J Bedwell, S Schantz, RK Tiwari and J Geliebter, Valhalla, NY and New York, NY. *New York Medical College (Trainee Travel Award Winner)*
- 67 TWO FUNCTIONAL VARIANTS OF SPHINGOSINE-1-PHOSPHATE RECEPTOR 3 GENE DECREASES HUMAN SUSCEPTIBILITY TO SEVERE SEPSIS-ASSOCIATED ACUTE LUNG INJURY.**  
S Ma, X Sun, M Wade, J Moitra, Y Han and JG Garcia, Chicago, IL. *University of Chicago*
- 69 THE F11 RECEPTOR/JUNCTIONAL ADHESION MOLECULE-A (F11R/JAM-A) ON ACTIVATED SMOOTH MUSCLE CELLS IN ATHEROSCLEROSIS: IMPLICATIONS FOR PLAQUE REMODELING.**  
BM Azari, JD Marmur, M Salifu, E Cavusoglu and A Babinska, New York, NY and Brooklyn, NY. *SUNY Downstate*
- 71 SERUM IRON CONCENTRATIONS ARE RELATED TO CIRCULATING FGF23 CONCENTRATIONS IN ADHR, BUT NOT IN XLH.**  
EA Imel, A Gray and MJ Econs, Indianapolis, IN. *Indiana University School of Medicine (K Award Grant Winner)*

## Combined Poster Session and Lunch

Friday, April 23, 2010 • 11:45 am – 1:30 pm • Grand Ballroom

### Mechanisms of Disease

- 73 FOXM1 IS UPREGULATED BY NON-DIABETIC OBESITY AND STIMULATES PANCREATIC  $\beta$ -CELL PROLIFERATION.**  
DB Davis, JA Lavine, JI Suhonen, KA Krautkramer, ME Rabaglia, JM Sperger, LA Fernandez, BS Yandell, MP Keller and AD Attie, Madison, WI. *University of Wisconsin (Trainee Travel Award Winner, K Award Grant Winner)*
- 75 TGF- $\beta$  ACTIVATION OF AMPK OCCURS THROUGH ACTIVATION OF CAMKK AND PKC  $\zeta$ .**  
MS Sozio, S Liangpunsakul, Y Zeng, RA Ross and DW Crabb, Indianapolis, IN. *Indiana University and VAMC (Trainee Travel Award Winner)*
- 77 NUCLEAR  $\beta$ -CATENIN IS INCREASED IN SYSTEMIC SCLEROSIS-ASSOCIATED PULMONARY FIBROSIS AND PROMOTES LUNG FIBROBLAST MIGRATION AND PROLIFERATION.**  
A Lam, AS Flozak, S Russell, J Wei, M Jain, GM Mutlu, G Budinger, CA Feghali-Bostwick, J Varga and CJ Gottardi, Chicago, IL and Pittsburgh, PA. *Northwestern University (K Award Grant Winner)*
- 79 GENETIC POLYOMYOMATOSIS AND OSTEONECROSIS OF THE JAW (ONJ) IN PATIENTS WITH METASTATIC CA**  
C **WITHDRAWN**  
C *Ann Arbor, MI. University of Michigan (K Award Grant Winner)*
- 81 TNF- $\alpha$  INHIBITION REDUCES THE DEVELOPMENT OF SODIUM-SENSITIVE RENAL DISEASE IN RATS RECOVERED FROM RENAL ISCHEMIA/REPERFUSION(I/R) INJURY.**  
MA Saleh, C He, H Lund, C De Miguel and DL Mattson, Milwaukee, WI. *Medical College of Wisconsin (Trainee Travel Award Winner)*
- 83 INHIBITORY EFFECT OF ETHANOL ON AMPK PHOSPHORYLATION IS MEDIATED IN PART THROUGH ELEVATED CERAMIDE LEVELS.**  
S Liangpunsakul, M Sozio, E Shin, Z Zhao, Y Xu, R Ross, Y Zeng and D Crabb, Indianapolis, IN. *Indiana University School of Medicine (K Award Grant Winner)*
- 85 ANTHRAX VACCINE ADSORBED VACCINATION ANTI-PROTECTIVE ANTIGEN ANTIBODY LEVELS ARE ASSOCIATED WITH SLC35F1, ST6GALNAC3 AND RGS6.**  
BL Cobb, SR Crowe, JA James, RJ Engler, KM Kaufman and JB Harley, Oklahoma City, OK and Washington, DC. *Oklahoma Medical Research Foundation*
- 87 20-HETE MITIGATES EXPERIMENTAL RENAL ISCHEMIA-REPERFUSION INJURY.**  
KR Regner, T Akbulut, F Park and RJ Roman, Milwaukee, WI and Jackson, MS. *Medical College of Wisconsin (K Award Grant Winner)*
- 89 THE ROLE OF THE ANTIAPOPTOTIC PROTEIN C-FLIP IN MULTIPLE MYELOMA.**  
CD Crean, G Zhang, LB VanRyckeghem, H Hanenberg, R Abonour, SS Farag and A Suvannasankha, Indianapolis, IN. *Indiana University School of Medicine (K Award Grant Winner)*
- 91 CYTOSKELETAL SIGNALING MEDIATES TGF- $\beta$ 1-INDUCED PULMONARY MYOFIBROBLAST DIFFERENTIATION.**  
N Sandbo, A Lau, S Kregel, D Yau, J Kach and N Dulin, Chicago, IL. *University of Chicago (Trainee Travel Award Winner, K Award Grant Winner)*
- 93 THE ROLE OF E2F1 IN THE DEVELOPMENT OF HYPERTROPHIC CARDIOMYOPATHY.**  
H Lee, A Liner, S Richardson, MA Smith and BD Hoit, Cleveland, OH. *Case Western Reserve University (Trainee Travel Award Winner)*
- 95 NOX4-DERIVED REACTIVE OXYGEN SPECIES MODIFY CELLULAR REDOX STATE AND PROGRESSION TO APOPTOSIS.**  
ST Carrell and F Miller, Iowa City, IA. *University of Iowa (Trainee Travel Award Winner, MWAFMR Scholar's Program Award Winner)*
- 97 CONGENITAL URIC ACID NEPHROLITHIASIS.**  
A Shajju, B Statham, L Reisman, S Hussein and S Ursin, Shreveport, LA. *LSU Health Sciences Center*
- 99 EXAMINING THE ROLE OF CHROMOSOMAL INSTABILITY (CIN) IN TUMOR GROWTH.**  
SF Bakhoun, B Paoella, M Havrda, MA Israel and DA Compton, Hanover, NH. *Dartmouth Medical School (Trainee Travel Award Winner, APSA Award Winner)*

## Combined Poster Session and Lunch

Friday, April 23, 2010 • 11:45 am – 1:30 pm • Grand Ballroom

### Observational Science

- 101 ALVEOLAR EPITHELIAL CELL MIGRATION AND WOUND REPAIR BY AUTOTAXIN RELEASE AND LYSOPHOSPHATIDIC ACID GENERATION.**  
*J Zhao, D He, E Berdyshev, V Natarajan, R Salgia, AJ Morris, SS Smyth and Y Zhao, Chicago, IL and Lexington, KY. University of Chicago (Trainee Travel Award Winner)*
- 103 RELIGIOSITY AND SPIRITUALITY AS PREDICTORS OF MEDICAL INPATIENTS' END-OF-LIFE CARE PREFERENCES.**  
*K Karches, D Meltzer and FA Curlin, Chicago, IL. The University of Chicago (K Award Grant Winner)*
- 105 ASEPTIC MENINGITIS SYNDROME IN ADULTS: RISK CLASSIFICATION FOR AN URGENT TREATABLE ETIOLOGY.**  
*R Hasbun, C Hadi and M Hussein, Houston, TX and New Orleans, LA. UTHSC (K Award Grant Winner)*
- 107 LOCALIZATION OF TRANSFORMING GROWTH FACTOR (TGF)  $\beta$  RECEPTORS WITHIN THE NUCLEI OF HUMAN AIRWAY SMOOTH MUSCLE (HASM) CELLS.**  
*A Mosley-Brown, X Li, K Serban, M Cable, P Kogut and B Camoretti-Mercado, Chicago, IL. The University of Chicago (K Award Grant Winner)*
- 109 THE EFFECT OF TUMOR NECROSIS FACTOR-ALPHA BLOCKADE ON CARDIOVASCULAR OUTCOMES AND SURVIVAL IN PATIENTS WITH RHEUMATOID ARTHRITIS.**  
*Z Al-Aly, H Pan, A Zeringue, H Xian, M Jay and S Eisen, Saint Louis, MO. Saint Louis Veterans Affairs Medical Center (Trainee Travel Award Winner, MWFMR Scholar's Program Award Winner)*
- 111 INTRAVENOUS SOTALOL INDUCED QT PROLONGATION PREDICTS SERUM SOTALOL CONCENTRATION.**  
*JC Somberg, VV Ranade, Z Molnar, T Somberg and J Molnar, Chicago, IL, Lake Bluff, IL and New York, NY. Rush University*
- 113 ESSENTIAL OIL ATTENUATES INFLUENZA VIRUS INFECTION VIA INHIBITION OF MEMBRANE FUSION IN VITRO.**  
*S Wu, KB Patel, JP Metcalf and W Wu, Suzhou, China and Oklahoma City, OK. the Second Affiliated Hospital of Soochow University*
- 115 IS CIRCADIAN TYPE ASSOCIATED WITH SLEEP DURATION IN TWINS?**  
*NF Watson, C Noonan, D Buchwald, MV Vitiello, AI Pack and J Goldberg, Seattle, WA and Philadelphia, PA. University of Washington (Trainee Travel Award Winner, K Award Grant Winner)*
- 117 POSTOPERATIVE PULMONARY INSPIRATORY RESERVE VOLUME AND INCENTIVE SPIROMETRY IN MORBIDLY OBESE PATIENTS UNDERGOING BARIATRIC SURGERY.**  
*D Cattano, A Altamirano, V Melnikov, E Pivalizza, A Feldman and C Hagberg, Houston, TX. University of Texas, HSC Houston*
- 119 UTILIZATION OF MOLECULAR GENOTYPING AND GEOCODING TO UNDERSTAND CLONAL ASSOCIATIONS AMONG METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS (MRSA) IN THE COMMUNITY.**  
*S Wang, Y Khan, L Hines, K Kent, R DeMita, R Soni, P Pancholi and K Stevenson, Columbus, OH. The Ohio State University (K Award Grant Winner)*
- 121 APOCYNIN BLOCKS DELAYED AFTERDEPOLARIZATIONS IN HUMAN ENDOCARDIUM.**  
*AK Chaudhary, FL Johnson, JE Davis, Y Suzuki and JB Martins, Iowa City, IA. University of Iowa Hospitals and Clinics*
- 123 FACTORS CAUSING THROMBOCYTOPENIA FOLLOWING ON-PUMP CARDIOPULMONARY BYPASS SURGERY AND INCIDENCE OF HEPARIN INDUCED THROMBOCYTOPENIA (HIT) IN POST-OPERATIVE PERIOD.**  
*AB Chandra, N Mittal, S Pathak, H Pathak, S Sambidi, A Belur and Y Xu, Brooklyn, NY. Maimonides Medical Center*

## Combined Poster Session and Lunch

Friday, April 23, 2010 • 11:45 am – 1:30 pm • Grand Ballroom

### Observational Science

- 125 DOES THE PATIENT REALLY NEED BLOOD CULTURES?: ASSESSING PREDICTORS OF BACTEREMIA.**  
*B Coburn and A Detsky, Toronto, ON, Canada. University of Toronto (Trainee Travel Award Winner)*
- 127 CLINICAL AND ANGIOGRAPHIC OUTCOMES OF CORONARY PERFORATIONS IN THE CONTEMPORARY INTERVENTIONAL ERA - A SINGLE CENTER EXPERIENCE OVER A DECADE.**  
**WITHDRAWN**  
*PA ... Thekkoot, B Malik, R Frankel and J Shani, New York, NY. Maimonides Medical Center (Trainee Travel Award Winner)*
- 129 NICOTINE EXPOSURE DOES NOT CONFER SURVIVAL ADVANTAGE IN PATIENTS WITH SEPSIS**  
**SETH M GREGORY MD; JJOJO JOHN MD; GARY T KINASEWITZ MD.**  
*SM Gregory, J John and GT Kinasewitz, Oklahoma City, OK. University of Oklahoma Health Sciences Center*
- 131 STEM CELLS CULTURED FROM OMENTUM-INDUCED REGENERATING LIVER CAN BE DIFFERENTIATED TO HEPATOCYTES.**  
*N Pancholi, KP Gudehithlu, J Patel, M Kraus, JA Arruda, G Dunea and AK Singh, Chicago, IL. Hektoen Institute of Medicine*
- 133 ABSOLUTE FLOW-MEDIATED DILATION (FMDMM) AND NITRIC OXIDE DEPENDENT VASODILATOR CAPACITY OF THE BRACHIAL ARTERY, BUT NOT PERCENT FLOW MEDIATED DILATION(FMD%), ARE INCREASED IN TRAINED ATHLETES.**  
*ME Widlansky, TJ Kizhakekuttu, D Emon and GD David, Milwaukee, WI. Medical College of Wisconsin (K Award Grant Winner)*
- 135 INVESTIGATING THE PATHOGENIC ROLE OF NOTCH SIGNALING IN T CELL-MEDIATED IMMUNE DISORDERS.**  
*I Maillard, AR Sandy, GT Shan, I Tran, A Friedman, J Wang, S He, SG Emerson, WS Pear, Y Zhang, Ann Arbor, MI. University of Michigan*

## 2010 Combined Annual Meeting Award Winners

### APSA Awards

Samuel Bakhoum  
Joan Beckman  
David Terrano  
Michael Valentino  
Kel Vin Woo

### Outstanding Young Investigator Award

Carmella Evans-Molina

### Cardiovascular Award

Xiaoguang Sun

### MWFMR Scholar's Program Awards

Ziyad Al-Aly  
Joan Beckman  
Samuel Carrell  
MingMing Ning  
Michael Valentino

### Trainee Travel Awards

Waqas Ahmed  
Ziyad Al-Aly  
Sameer Ali  
Samuel Bakhoum  
David Beiser  
Craig Belon  
Samuel Carrell  
Preeti Chandra  
Weiguo Chen  
Bryan Coburn  
Sean Collins  
Dawn Davis  
Dan Drzymalski  
Christine Dugan  
Carmella Evans-Molina  
Panfeng Fu  
Alicia Gerke  
Charles Glueck  
R. Stephanie Huang  
Ayub Khan  
Naseer Khan  
David Knorr  
Nicolas Kummer  
Hyoung-gon Lee  
Hong Li  
Holly Loud  
Wenli Ma  
Murali Krishna Maddipati  
MingMing Ning  
Julio Noriega  
Toru Nyunoya  
Srikanth Pendyala  
Jack Rubinstein  
Mohammad Saleh  
Rafah Salloum  
Nathan Sandbo  
Utpal Sandesara  
Ankur Sheth  
Margaret Sozio  
Vitaliy Starosta  
Xiaoguang Sun  
Muhammad Umar  
Michael Valentino  
Lichun Wang  
Nathaniel Watson  
Corinna Weckerle  
Kerry Welsh  
Kel Vin Woo  
Aleksandra Zgierska  
Jing Zhao

### K Award Grants

Ziyad Al-Aly  
G Caleb Alexander  
David Beiser  
Anna Brandon  
Blanca Camoretti-Mercado  
Sean Collins  
Farr Curlin  
Dawn Davis  
Carmella Evans-Molina  
Alicia Gerke  
Dayna Groskreutz  
Rodrigo Hasbun  
Hatim Hassan  
Marion Hofmann Bowman  
Robert Hoover  
R. Stephanie Huang  
Erik Imel  
Berit Kerner  
Naseer Khan  
Benjamin Ko  
Jay Koyner  
Anna Lam  
Suthat Liangpunsakul  
Christopher Masi  
Timothy Niewold  
MingMing Ning  
Toru Nyunoya  
Kevin Regner  
Nathan Sandbo  
Neil Segal  
Rebecca Shilling  
Xiaoguang Sun  
Attaya Suvannasankha  
Magdalena Uhart  
Benjamin Van Voorhees  
Shu-Hua Wang  
Nathaniel Watson  
Michael Widlansky  
Zili Zhang  
Leonid Zingman

## Society Officers and Directors

### Central Society for Clinical Research

*President*

David Crabb  
Indianapolis, IN

*Past President*

Brian Hoit  
Cleveland, OH

*President-Elect*

Bradley Britigan  
Cincinnati, OH

*Secretary-Treasurer*

Jordan Metcalf  
Oklahoma City, OK

*Vice President*

Virginia Savin  
Kansas City, KS

*Editor*

Jeffrey Laurence  
New York, NY

*Councilors*

Alan Buchman  
Chicago, IL

Alisa Koch

Ann Arbor, MI

Edward Lesnefsky  
Cleveland, OH

Larry Schlesinger  
Columbus, OH

Terry Unterman  
Chicago, IL

Neal Weintraub  
Cincinnati, OH

### Midwestern Section American Federation for Medical Research

*Chair*

James Maloney  
Denver, CO

*Chair-Elect*

Abraham Thomas  
Detroit, MI

*Past Chair*

Nalini Rajamannan  
Chicago, IL

*Secretary-Treasurer*

Kieren Mather  
Indianapolis, IN

*Councilors*

Robert Hoover  
Chicago, IL

Reena Mehra  
Cleveland, OH

Mark Wiley  
Kansas City, KS

2011 Combined Annual Meeting of CSCR and MWAfMR

**Save the Date**

*April 14-15, 2011 Chicago Marriott Downtown Chicago, IL*

**CSCR**  
Central Society for  
Clinical Research



Midwestern Section  
American Federation for  
Medical Research

**[www.cscr.com](http://www.cscr.com)**



**Central Society for Clinical Research**

555 East Wells Street  
Suite 1100

Milwaukee, WI 53202

Phone: 414.273.2209

Fax: 414.276.3349

E-mail: [cscr@execinc.com](mailto:cscr@execinc.com)

Web Site: [www.cscr.com](http://www.cscr.com)