

Final Program 2005

Learning Objectives

The 2005 Combined Annual Meeting of the Central Society for Clinical Research (CSCR) and the Midwestern Section of the American Federation for Medical Research (MWAfMR) presents a Hickam Lecture and five plenary sessions on topics of timely interest for researchers and physicians interested in the broad field of clinical research. At the completion of the meeting, participants should be able to:

- Discuss the management principles of treating the critically obese patient;
- Identify the role of PKC isoforms in cardiac hypertrophy and the ischemic injury response;
- Describe the biology of chlamydia trachomatis and the host immune defense response;
- Outline the vascular and metabolic effects of HIV-1 protease inhibitors;
- Determine the factors that motivate and impede physician disclosure of medical errors;
- Recognize the abnormal phenotype of myeloid dendritic cells in systemic lupus erythematosus
- Evaluate the relationship between cell engineering and pluripotent stem cells; and
- Assess the role of microvasculature in acute renal failure.



Central Society for Clinical Research

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2006

**Combined Annual
Meeting Dates and
Location to be
announced**



Final Program 2005

Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of Indiana University School of Medicine and the Combined Annual Meeting of the Central Society for Clinical Research (CSCR) and the Midwestern Section American Federation for Medical Research (MWAfMR). Indiana University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Credit

The Indiana University School of Medicine designates this educational activity for a maximum of 4.75 hours in category 1 credit towards the AMA Physician's Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Note

While it offers CME credit hours, this activity is not intended to provide extensive training or certification in the field.

Disclosure

As a provider accredited by the ACCME, Indiana University School of Medicine's Division of Continuing Medical Education must ensure balance, independence, objectivity and scientific rigor in its educational activities. All faculty are required to disclose relationships with commercial grantors or products. Faculty are also required to identify trade names, investigational products, and unlabeled uses that are discussed in their presentations. Disclosure will be published in course materials so participants may formulate their own judgment regarding the presentation.

Speakers

David Arterburn

This activity is supported by a grant from the Department of Veterans Affairs.

William H. Fissell

This activity is supported by a grant from the National Institutes of Health.

Dawn M. Flaherty

This activity is supported by a grant from the National Institutes of Health.

John Gearhart

Disclosure not submitted prior to printing.

Harvey Hahn

This activity is supported by a grant from the National Institutes of Health.

Raymond M. Johnson

This activity is supported by a grant from the National Institutes of Health.

Lauris C. Kaldjian

No interests to disclose.

Mariana J. Kaplan

This activity is supported by a grant from the National Institute of Arthritis and Musculoskeletal and Skin Diseases.

Zhenguo Liu

This activity is supported by a grant from the National Institutes of Health.

Dennis McGraw

No interests to disclose.

James O' Brien

No interests to disclose.

Jay Purdy

Presentation will include discussion of commercial product or service. There is no significant financial interest or other relationship with the manufacturer(s) of any of the products or provider(s) of any of the services.

Pavan R. Reddy

This activity is supported by a grant from the National Institutes of Health.

Sudha Shankar

This activity is supported by a grant from the National Institutes of Health and Indiana University.

Timothy Sutton

No interests to disclose.

Poster Session

Submitted abstracts accepted as poster presentations for the meeting will be presented on Friday, April 15, 2005 during Lunch. You must have registered for the meeting and checked in at the registration desk prior to setting up your poster.

Author set-up for the poster session is from 9:00 am – 11:00 am on Friday, April 15 and poster removal is from 1:00 pm - 3:00 pm.

Poster Presentation Schedule

Friday, April 15, 2005

Columbus EF

11:30 am – 1:00 pm

Lunch will be provided

2005 Combined Annual Meeting-At-A-Glance

Hyatt Regency Chicago on the Riverwalk, Chicago, Illinois • April 15, 2005

THURSDAY, APRIL 14, 2005

TIME	ACTIVITY	LOCATION
4:00 pm – 6:00 pm	MWAFMR Council Meeting	Horner Room
4:00 pm – 6:00 pm	CSCR Council Meeting	Ogden Room
6:00 pm – 10:00 pm	CSCR Sugar Club Dinner	Acapulco Room
7:00 pm – 10:00 pm	MWAFMR Council Dinner	Held Offsite

FRIDAY, APRIL 15, 2005

TIME	ACTIVITY	LOCATION
7:00 am – 3:00 pm	Registration	Acapulco Room
7:00 am – 11:00 am	Poster Set-Up	Columbus EF
8:00 am – 8:15 am	Opening Remarks by the CSCR President and MWAFMR President	Acapulco Room
8:15 am – 9:00 pm	Department Chair Session #1	Acapulco Room
9:00 am – 9:45 am	Department Chair Session #2	Acapulco Room
9:45 am – 10:00 am	Coffee Break	Acapulco Room
10:00 am – 10:45 am	Department Chair Session #3	Acapulco Room
10:45 am – 11:30 am	Hickam Lecture	Acapulco Room
11:30 am – 1:00 pm	Lunch and Poster Presentations	Columbus EF
1:00 pm – 1:15 pm	CSCR Business Meeting	Acapulco Room
1:00 pm – 3:00 pm	Poster Removal	Columbus EF
1:15 pm – 2:00 pm	Department Chair Session #4	Acapulco Room
2:00 pm – 2:45 pm	Department Chair Session #5	Acapulco Room
2:45 pm	Conclusion of 2005 Combined Annual Meeting	

Final Program 2005

2005 Combined Annual Meeting Schedule

All sessions jointly presented by

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

8:00 am - 8:15 am

Opening Remarks by Lawrence A. Frohman, CSCR President and Jordan Metcalf, MWAFFMR President

Friday, April 15, 2005

8:15 am – 9:00 am **Acapulco Room**

Department Chair Session #1

Michael R. Grever, Chair, Department of Internal Medicine, Ohio State University College of Medicine

8:15 **The Obese Critically Ill: Outcome and Process Disparities**

James O'Brien, Division of Pulmonary and Critical Care Medicine, Ohio State University

8:30 **Developmental Expression of Endothelial Nitric Oxide Synthase during Stem Cell Differentiation into Endothelial Cells**

Zhenguo Li, Ohio State University

8:45 PRESENTATION TBA

Friday, April 15, 2005

9:00 am – 9:45 am **Acapulco Room**

Department Chair Session #2

Bradley Britigan, Chair, Department of Internal Medicine, University of Cincinnati

9:00 **Role of PKC Isoforms in Cardiac Hypertrophy, Function, and Response to Ischemic Injury**

Harvey Hahn, University of Cincinnati

9:15 **The Impact of Obesity on Health Care Expenditures and Quality of Life**

David Arterburn, University of Cincinnati

9:30 **Receptor Crosstalk as a Mechanism for Paradoxical Worsening of Asthma with Chronic Beta-Agonist Use**

Dennis McGraw, University of Cincinnati

Intermission

Friday, April 15, 2005

9:45 am – 10:00 am **Acapulco Room**

2005 Combined Annual Meeting Schedule

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Friday, April 15, 2005

10:00 am – 10:45 am **Acapulco Room**

Department Chair Session #3

David Crabb, Chair, Department of Internal Medicine, Indiana University School of Medicine

- 10:00 **Chlamydia Trachomatis: Host Defense and Immune Invasion**
Raymond M. Johnson, Indiana University
- 10:15 **Protection of Renal Microvascular Injury in a Model of Ischemic Acute Renal Failure**
Timothy A. Sutton, Indiana University
- 10:30 **Vascular and Metabolic Effects of HIV-1 Protease Inhibitors**
Sudha Shankar, Indiana University

Friday, April 15, 2005

10:45 am – 11:30 am **Hickam Lecture**

Lawrence A. Frohman and Jordan Metcalf, Presiding

Differentiation of Human Pluripotent Stem Cells

John Gearhart, C. Michael Armstrong Professor of Medicine, Institute for Cell Engineering, Johns Hopkins University

11:30 am – 1:00 pm **Columbus EF**

Lunch and Poster Presentations

Friday, April 15, 2005

1:15 pm – 2:00 pm **Acapulco Room**

Department Chair Session #4

Paul Rothman, Chair, Department of Internal Medicine, University of Iowa Carver College of Medicine

- 1:15 **Regulation of Macrophage Survival**
Dawn M. Flaherty, University of Iowa
Centocor Gastroenterology/Rheumatology Scholar Award Winner
- 1:30 **Factors that Motivate and Impede Physician Disclosure of Medical Errors: An Empirical Taxonomy and Survey**
Lauris C. Kaldjian, University of Iowa
- 1:45 **Gene Regulation in Leishmania Chagasi**
Jay Purdy, University of Iowa
Contributor: Mary E. Wilson, University of Iowa

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2005 Combined Annual Meeting Schedule

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Friday, April 15, 2005

2:00 pm – 2:45 pm Acapulco Room

Department Chair Session #5

Marc Lippman, Chair, Department of Internal Medicine, University of Michigan

2:00 **Abnormal Phenotype and Junction of Myeloid Dendritic Cells in Systemic Lupus Erythematosus**

Mariana J. Kaplan, University of Michigan

Centocor Gastroenterology/Rheumatology Scholar Award Winner

2:15 **Role of Antigen Presenting Cells in Graft versus Leukemia Effect after Allogeneic Bone Marrow Transplantation**

Pavan R. Reddy, University of Michigan

Centocor Gastroenterology/Rheumatology Scholar Award Winner

2:30 **Silicon Nanopore Membranes for Renal Replacement**

William H. Fissell, University of Michigan

Scholars Program

On behalf of the Organizing Committee we would like to thank the sponsor of the Scholars Program. The purpose of this program is to promote the careers of junior investigators by giving them an opportunity to give oral presentations 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 proud sponsor is:



COMBINED POSTER SESSION AND LUNCH

Jointly presented by

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

Friday, April 15, 2005 • 11:30 am – 1:00 pm

Columbus E and F

Observational Science

- 1 **THE EFFECT OF GLYCOSAMINOGLYCANS UPON FORMATION OF COMPLEXES BETWEEN FACTOR b-XIIa AND ANTITHROMBIN III.**
AS Brecher and AL Spayde, Bowling Green, OH. Bowling Green State University Abstract 1
- 2 **SAPHENOUS VEIN GRAFT QUALITY DOES AFFECT OUTCOMES FOLLOWING CORONARY ARTERY BYPASS GRAFT SURGERY.** *JM Brennan, R Blankstein, M Arnsdorf, B Jones, Y Lou, and M Pine, Chicago, IL. The University of Chicago Hospitals* Abstract 2
- 3 **THE LOSS OF SEROTONIN-INDUCED EXCITATORY JUNCTION POTENTIAL AUTOMATICITY AT CRAYFISH WALKING LIMB OPENER MUSCLE.** *MS Gorovoy, ZH Dodd, A Losiniecki, D Hertzler, R Hasan and R Friedman, Evansville, IN and Indianapolis, IN. Indiana University School of Medicine* Abstract 3
- 4 **INCREASED ENDOTHELIAL PERMEABILITY IN RHOGDI ALPHA NULL MICE DUE TO THE ACTIVATION OF RHOA SIGNALING CASCADE.** *MS Gorovoy, R Neamu, J Niu, J Miyoshi, Y Takai, and TV Voyno-Yasenetskaya, Chicago, IL and Osaka, Japan. University of Illinois at Chicago (Trainee Travel Award Winner)* Abstract 4
- 5 **ASSOCIATION OF UGT1A1 POLYMORPHISM AND BILIRUBIN LEVELS IN FEMALE MULTI-RACIAL/ETHNIC COHORT.** *AL Hong, OI Olopade, D Huo, SA Cummings, Q Niu, and HJ Kim, Chicago, IL. The University of Chicago (Centocor Gastroenterology/Rheumatology Scholar Award Winner)* Abstract 5
- 6 **FEASIBILITY OF EARLY DISCHARGE AFTER PRIMARY ANGIOPLASTY FOLLOWING ACUTE MYOCARDIAL INFARCTION.** *KM Jacobson and DG Meyers, Kansas City, KS. Kansas University School of Medicine* Abstract 6
- 7 **INDICATIONS SPECTRUM FOR TEMPORARY CARDIAC PACEMAKER THERAPY IN A COMMUNITY HOSPITAL.** *S Jain, U Patel, A Gupta, R Ailliani, S Islam, S Niranjana, and A Khanna, Brooklyn, NY. Coney Island Hospital* Abstract 7
- 8 **EFFECTS OF FRUCTOSE-1,6-BISPHOSPHATE AND OTHER COMPOUNDS ON HYPOTHERMIC PRESERVATION OF CARDIAC MYOCYTES.** *PD Kelsey, SM Chien, and TJ Wheeler, Louisville, KY. University of Louisville* Abstract 8
- 9 **MECHANISMS OF ENDOTHELIAL BARRIER ENHANCEMENT INDUCED BY ATP.** *IA Kolosova, T Mirzapooiazova, D Adyshev, P Usatyuk, V Natarajan, and AD Verin, Baltimore, MD. Johns Hopkins University School of Medicine* Abstract 9
- 10 **AN ANALYSIS OF PATIENTS' INTEREST IN RESEARCH FROM A MEMORY SPECIALTY CLINIC.** *NJ Lane, TL Ohrt, SA Meade, AM Slattery, CE Gleason, and S Asthana, Madison, WI. University of Wisconsin - Madison* Abstract 10
- 11 **THE RISK OF NEPHROLITHIASIS IN SPONDYLOARTHRITIS.** *SA Leonard, JA Singh, and HE Krug, Minneapolis, MN. University of Minnesota (Centocor Gastroenterology/Rheumatology Scholar Award Winner)* Abstract 11

COMBINED POSTER SESSION AND LUNCH

- 12 CONCENTRATION-DEPENDENT EFFECTS OF VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF) ON ENDOTHELIAL PERMEABILITY.**
T Mirzapoiiazova, I Kolosova, P Ustyuk, V Natarajan, and AD Verin, Baltimore, MD. Johns Hopkins University School of Medicine Abstract 12
- 13 SUSPECTED VASCULITIS IN AN ADOLESCENT FEMALE WITH CARDIOMYOPATHY, MYOCARDIAL INFARCTION, AND HEART FAILURE REQUIRING HEART TRANSPLANTATION.**
S Nabatian, P Quinn, I Dubrow, MJ Rosenberg, and J Lakier, Park Ridge, IL. Lutheran General Hospital Abstract 13
- 14 COMPARATIVE EFFECTS OF RAPID BOLUS ADMINISTRATION OF AQUEOUS AMIODARONE VERSUS 10-MINUTE CORDARONE I.V. INFUSION ON MEAN ARTERIAL BLOOD PRESSURE IN CONSCIOUS DOGS.** *JC Somberg, I Cvetanovic, V Ranade, and J Molnar, Lake Bluff, IL and Chicago, IL. Academic Pharmaceutical* Abstract 14
- 15 INDUCTIVE STENT HEATING AND STRAIN WITHIN AN ELECTROMAGNETIC FIELD.** *MA Wiley, M Bilgen, and JL Vacek, Kansas City, KS. University of Kansas Medical Center* Abstract 15
- 16 RELATIONSHIP OF BMI TO OUTCOME IN CRITICALLY ILL TRAUMA PATIENTS.** *JG Zein, EA Chbeir, MM Tawk, and GT Kinasewitz, Oklahoma City, OK. Oklahoma University Health Sciences Center* Abstract 16
- 17 DYSFUNCTION OF ENDOCARDIAL NITRIC OXIDE EXPRESSION IS ASSOCIATED WITH INCREASED RISK OF THROMBOGENESIS IN ATRIAL FIBRILLATION.** *L Zhou, FJ Miller, and SP Xu, Iowa City, IA. University of Iowa (Trainee Travel Award Winner)* Abstract 17

Understanding Mechanisms of Disease

- 18 THE ROLE OF CPI-17 IN ENDOTHELIAL CELL (EC) CYTOSKELETAL ORGANIZATION.** *DM Adyshev, IA Kolosova, S Ma, AD Taylor, P Wang, JG Garcia, and AD Verin, Baltimore, MD. Johns Hopkins University School of Medicine* Abstract 18
- 19 THE EFFECT OF DIETARY PHOSPHORUS ON VASCULAR CALCIFICATION AND OSTEOPONTIN EXPRESSION IN NORMAL AND UREMIC ANIMALS.** *Z Al Aly, RA Kowalewski, L Salinas-Madrigal, KJ Martin, W de Graaf, and EA González, Saint Louis, MO. Saint Louis University (Trainee Travel Award Winner)* Abstract 19
- 20 MOLECULAR MECHANISMS OF LUNG ENDOTHELIAL BARRIER REGULATION BY OXIDIZED PHOSPHOLIPIDS.** *KG Birukov, VN Bochkov, N Leitinger, and JG Garcia, Baltimore, MD, Vienna, Austria, and Charlottesville, VA. Johns Hopkins University School of Medicine* Abstract 20
- 21 SIGNALING PATHWAYS MEDIATING TGF-BETA-INDUCED ENDOTHELIAL CELL PERMEABILITY.** *AA Birukova, D Adyshev, and AD Verin, Baltimore, MD. Johns Hopkins University School of Medicine* Abstract 21
- 22 FTY720 ENHANCEMENT OF PULMONARY ENDOTHELIAL BARRIER FUNCTION IS S1P1 RECEPTOR INDEPENDENT.** *SM Camp, SM Dudek, ET Chiang, PA Singleton, V Natarajan, and JG Garcia, Baltimore, MD. Johns Hopkins University School of Medicine* Abstract 22
- 23 SUPEROXIDE ANION IS NECESSARY FOR TNF- α -INDUCED MIP-2 EXPRESSION.** *AB Carter and LA Tephly, Iowa City, IA. University of Iowa* Abstract 23

COMBINED POSTER SESSION AND LUNCH

- 24 **PROTEIN KINASE C DELTA MEDIATES THROMBIN-INDUCED ENDOTHELIAL BARRIER DYSFUNCTION THROUGH ACTIN STRESS FIBER FORMATION.** *ET Chiang, SM Camp, SM Dudek, V Natarajan, and JG Garcia, Baltimore, MD. Johns Hopkins University School of Medicine (Trainee Travel Award Winner)* Abstract 24
- 25 **IN VIVO EXPRESSION OF TOLL-LIKE RECEPTOR-2 ON CONJUNCTIVAL EPITHELIAL CELLS IS INCREASED IN ATOPIC KERATOCONJUNCTIVITIS.** *EB Cook, JL Stahl, NP Barney, and FM Graziano, Madison, WI. University of Wisconsin-Madison (Centocor Gastroenterology/Rheumatology Scholar Award Winner)* Abstract 25
- 26 **DEFECTIVE FUNCTIONING OF RAS IN LUPUS T CELLS.** *DV Cooray and MB Taylor, Loma Linda, CA and Los Angeles, CA. Loma Linda University (Trainee Travel Award Winner and Centocor Gastroenterology/Rheumatology Scholar Award Winner)* Abstract 26
- 27 **PURIFIED LUNG IGG FROM HIV-INFECTED SUBJECTS DEMONSTRATES AN IMPAIRED ABILITY TO OPSONIZE PNEUMOCOCCI.** *RK Eagan, SB Gordon, RB Day, and HL Twigg, III, Indianapolis, IN and Blantyre, Malawi. Indiana University* Abstract 27
- 28 **NEUROHORMONAL REGULATION IN PATIENTS WITH NEUROGENIC ORTHOSTATIC HYPOTENSION DUE TO VARIOUS ETIOLOGIES OF AUTONOMIC NEUROPATHY.** *JL Gilden, W Tsai, P Hung, SP Singh, and A Bolisay, North Chicago, IL. Rosalind Franklin University of Medicine and Science* Abstract 28
- 29 **ENDOTHELIAL BARRIER ENHANCEMENT BY ATP IS MEDIATED BY THE SMALL GTPASE RAC.** *JR Jacobson, SM Dudek, P Singleton, and JG Garcia, Baltimore, MD. Johns Hopkins University School of Medicine (Trainee Travel Award Winner)* Abstract 29
- 30 **HAEMOPHILUS INFLUENZAE FROM COPD PATIENTS WITH EXACERBATION INDUCE MORE INFLAMMATION THAN COLONIZERS.** *DC Look, CL Chin, LJ Manzel, EE Lehman, AL Humlicek, L Shi, TD Starner, GM Denning, TF Murphy, and S Sethi, Iowa City, IA and Buffalo, NY. University of Iowa* Abstract 30
- 31 **HUMAN METHYLENETETRAHYDROFOLATE REDUCTASE (MTHFR) PHARMACOGENOMICS: GENE RESEQUENCING AND FUNCTIONAL GENOMIC STUDIES.** *YN Martin, OE Salavaggione, LL Pelleymounter, RM Weinshilboum, ED Wieben, and BW Eckloff, Rochester, MN. (Trainee Travel Award Winner)* Abstract 31
- 32 **INTRAVITAL IMAGING DEMONSTRATES INCREASED GLOMERULAR PROTEIN PERMEABILITY PRECEDING PROTEINURIA IN PAN NEPHROSIS.** *ET McCarthy, R Sharma, SR Reddy, RM Sandoval, KW Dunn, BA Molitoris, VJ Savin, and M Sharma, Milwaukee, WI, Kansas City, MO, and Indianapolis, IN. Medical College of Wisconsin (Centocor Gastroenterology/Rheumatology Scholar Award Winner)* Abstract 32
- 33 **CALCIUM DEPLETION PREVENTS ADENOVIRUS INDUCTION OF INTERLEUKIN-8 AND CELL ENTRY, BUT NOT ERK ACTIVATION.** *JP Metcalf, JL Booth, and KM Coggeshall, Oklahoma City, OK. Oklahoma University Health Sciences Center* Abstract 33
- 34 **IDENTIFICATION OF RAT STRAIN-SPECIFIC DIFFERENCES IN SUSCEPTIBILITY TO MECHANICAL VENTILATION INDUCED LUNG INJURY.** *SA Nonas, IL Miller, and JGN Garcia, Baltimore, MD. Johns Hopkins University School of Medicine* Abstract 34

COMBINED POSTER SESSION AND LUNCH

- 35 **MYPT1 IN THE REGULATION OF ENDOTHELIAL CYTOSKELETON.** *G Olah, I Kolosova, and AD Verin, Baltimore, MD. Johns Hopkins University School of Medicine* Abstract 35
- 36 **A MITOCHONDRIA-TARGETED DNA REPAIR ENZYME, HOGG-1, PREVENTS ASBESTOS-INDUCED A549 CELL APOPTOSIS.** *E Riggle, V Panduri, and DW Kamp, Chicago, IL. Northwestern University* Abstract 36
- 37 **METHYLATION PHARMACOGENOMICS: DATABASE MINING TO IDENTIFY NOVEL HUMAN SMALL MOLECULE AND PROTEIN METHYLTRANSFERASES.** *OE Salavaggione, M Wiepert, R Reddy, CG Chute, and RM Weinshilboum, Rochester, MN. Mayo Clinic College of Medicine* Abstract 37
- 38 **UNCOUPLING OF INSULIN SENSITIVITY AND ENDOTHELIAL FUNCTION BY THE HIV-1 PROTEASE INHIBITOR, INDINAVIR.** *SS Shankar, MP Dube, RV Considine, and HO Steinberg, Indianapolis, IN. Indiana University School of Medicine (Trainee Travel Award Winner)* Abstract 38
- 39 **REGULATION OF SPHINGOSINE 1-PHOSPHATE-INDUCED ENDOTHELIAL CYTOSKELETAL REARRANGEMENT AND BARRIER ENHANCEMENT BY S1P1 RECEPTOR, CAVEOLIN-ENRICHED MICRODOMAINS, PI3 KINASE AND TIAM1/RAC1.** *PA Singleton and JGN Garcia, Baltimore, MD. Johns Hopkins University School of Medicine (Trainee Travel Award Winner)* Abstract 39
- 40 **p53 MEDIATES PARTICULATE MATTER-INDUCED A549 CELL MITOCHONDRIA-DEPENDENT APOPTOSIS.** *S Soberanes, V Panduri, GS Budinger, and DW Kamp, Chicago, IL. Northwestern University* Abstract 40
- 41 **CHRONIC ETHANOL TREATMENT REDUCES BRONCHIAL EPITHELIAL CELL MIGRATION DURING WOUND REPAIR.** *JR Spurzem, TA Wyatt, T Veys, J Devasure, and JH Sisson, Omaha, NE. University of Nebraska Medical Center and The Omaha VA Medical Center* Abstract 41
- 42 **ROLE OF THE NADPH OXIDASE SUBUNIT NOX4 IN GENERATION OF REACTIVE OXYGEN SPECIES AND GROWTH ARREST OF VASCULAR SMOOTH MUSCLE CELLS IN ATHEROSCLEROSIS.** *SP Xu and FJ Miller, Iowa City, IA. University of Iowa* Abstract 42

Investigating Disease Modulation and Intervention

- 43 **DO DRUG ELUTING STENTS REDUCE MAJOR ADVERSE CORONARY EVENTS FOLLOWING ANGIOPLASTY?** *JK Bissett, Little Rock AR. University of Arkansas Medical Center and Central Arkansas Veterans Affairs Hospital* Abstract 43
- 44 **VOLUMETRIC THREE-DIMENSIONAL IMAGING OF THE PLEURAL SPACE.** *JS Ferguson, S Bond, AS Delsing, JE Cook-Glanroth, J Guo, EA Hoffman, and G McLennan, Iowa City, IA. University of Iowa* Abstract 44
- 45 **ACTIVATED PROTEIN C (APC) ATTENUATES THROMBIN-INDUCED BARRIER DYSFUNCTION IN HUMAN PULMONARY ENDOTHELIAL CELLS VIA AN EPCR-DEPENDENT MECHANISM.** *JH Finigan, SM Dudek, PA Singleton, ET Chiang, SM Camp, SQ Ye, and JGN Garcia, Baltimore, MD. Johns Hopkins University School of Medicine (Trainee Travel Award Winner)* Abstract 45
- 46 **ATORVASTATIN ATTENUATES VASCULAR GLOMERULI ATHEROSCLEROSIS IN EXPERIMENTAL HYPERCHOLESTEROLEMIA.** *P Gallagher, TA Le, SB Pandya, R Singh, JP McConnell, J Gocek, FC Caira, M Subramaniam, TC Spelsberg, and NM Rajamannan, Chicago, IL and Rochester, MN. Northwestern University* Abstract 46

COMBINED POSTER SESSION AND LUNCH

- 47 **TUMOR NECROSIS FACTOR- α DEPENDENT PATHWAYS MODULATE β -ADRENERGIC RECEPTOR MEDIATED MYOCARDIAL HYPERTROPHY IN VIVO.** *JB Garlie, Y Gu, J Luo, R Ortines, S Srivastava, B Chandrasekar, E Cardwell, and SD Prabhu, Louisville, KY and San Antonio, TX. University of Louisville (Centocor Gastroenterology/Rheumatology Scholar Award Winner)* Abstract 47
- 48 **MARKED REDUCTION IN ACQUISITION TIME FOR VELOCITY QUANTIFICATION USING IPAT.** *P Kansal, Q Zhang, C Bucciarelli-Ducci, OP Simonetti, P Tejedor, T Holly, JC Carr, and E Wu, Chicago, IL. Northwestern University* Abstract 48
- 49 **AORTIC VALVE AREA CALCULATION USING THE CONTINUITY EQUATION AND PLANIMETRY: A CARDIAC MRI COMPARISON WITH ECHOCARDIOGRAPHY.** *P Kansal, P Tejedor, E Wu, K Maganti, C Bucciarelli-Ducci, DC Lee, JC Carr, TA Holly, and RO Bonow, Chicago, IL. Northwestern University* Abstract 49
- 50 **MOTEXAFIN GADOLINIUM, A REDOX MEDIATOR, INDUCES APOPTOSIS IN CHRONIC LYMPHOCYTIC LEUKEMIA B CELLS AND IS ADDITIVE OR SYNERGISTIC WITH FLUDARABINE.** *NE Kay, R Miller, M Sirisawad, N Bone, L Naumovski, D Jelinek, and R Tschumper, Rochester, MN and Sunnyvale, CA. Mayo Clinic* Abstract 50
- 51 **SYSTEMATIC REVIEW OF CATHETER-ASSOCIATED DEEP-VEIN THROMBOSIS PREVENTION.** *AC Kirkpatrick, SW Rathbun, TL Whitsett, and GE Raskob, Edmond, OK and Oklahoma City, OK. Oklahoma University* Abstract 51
- 52 **THE INFLUENCE OF EXTRACELLULAR ACIDOSIS ON THE EFFECT OF ANTI-ARRHYTHMIC AGENTS ON THE CARDIAC POTASSIUM CHANNEL (IKR).** *C Lin, X Ke, I Cvetanovic, V Ranade, and JC Somberg, Lake Bluff, IL and Chicago, IL. Rush University* Abstract 52
- 53 **CHARACTERIZATION OF THE AUTOMATIC EXCITATORY JUNCTION POTENTIALS IN THE PRESENCE OF SEROTONIN.** *AJ Losiniecki, EA Goebel, ZH Dodd, D Hertzler, and RN Friedman, Indianapolis, IN. Indiana University School of Medicine* Abstract 53
- 54 **STABILITY OF ECHOGENIC IMMUNOLIPOSOMES UNDER PHYSIOLOGIC CONDITIONS.** *K Maganti, K Buchanan, SL Huang, SD Tiukinhoy, RC MacDonald, and DD McPherson, Chicago, IL and Evanston, IL. Northwestern University* Abstract 54
- 55 **EFFECT OF ALDOSTERONE ANTAGONIST ON THE INCIDENCE OF VENTRICULAR ARRHYTHMIAS AND APPROPRIATE SHOCKS IN PATIENTS WITH CONGESTIVE CARDIOMYOPATHY.** *ZA Mirza, A Anaparthi, Y Siraj, A Jamal, S Gupta, and A Wase, Beavercreek, OH and Dayton, OH. Wright State University* Abstract 55
- 56 **ATTENUATION OF RODENT LUNG ISCHEMIA REPERFUSION INJURY BY SPHINGOSINE 1-PHOSPHATE (S1-P).** *L Moreno-Vinasco, P Bonde, J Jacobson, and J Garcia, Glen Burnie, MD and Baltimore, MD. Johns Hopkins University School of Medicine* Abstract 56
- 57 **THE EFFECTS OF INCREASED EXPRESSION OF FATTY ACID OXIDATION ENZYMES ON LEFT VENTRICULAR MASS AND FUNCTION OF HEART FAILURE.** *EE Morgan, TA McElfresh, JH Rennison, MP Chandler, WC Stanley, and BD Hoit, Cleveland, OH. Case Western Reserve University (Trainee Travel Award Winner)* Abstract 57
- 58 **IF YOU BUILD IT, WILL THEY COME? CALIFORNIA PRIMARY CARE PHYSICIAN KNOWLEDGE, AWARENESS AND OPINION OF BUPRENORPHINE TO TREAT OPIATE ADDICTION.** *LJ Morrow, GG Galloway, DR Wesson, and DL Smith, San Francisco, CA and Oakland, CA. University of California, Davis School of Medicine* Abstract 58

COMBINED POSTER SESSION AND LUNCH

- 59 **HORMONAL RISK FACTORS AND BREAST TUMOR CHARACTERISTICS IN PRE-MENOPAUSAL AFRICAN AMERICAN AND CAUCASIAN WOMEN: A PRELIMINARY ANALYSIS.** *JO Ogutha, M Hall, D Elliott, S Cummings, D Cao, and OI Olopade, Chicago, IL. University of Chicago* Abstract 59
- 60 **DEGENERATIVE VERSUS RHEUMATIC MITRAL VALVE DISEASE: A COMPARISON OF CELLULAR PROLIFERATION AND OSTEOBLAST MEDIATED EXTRACELLULAR MATRIX PRODUCTION.** *JB Pandya, M Subramaniam, SR Stock, TC Spelsberg, PM McCarthy, RO Bonow, and NM Rajamannan, Chicago, IL and Rochester, MN. Northwestern University* Abstract 60
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