# 30th ANNUAL
# RUSH FORUM FOR RESEARCH AND CLINICAL INVESTIGATION

# PROGRAM

## WEDNESDAY, April 3, 2013

**Claude H. Searle Conference Center**
**Professional Building, 5th Floor**
**Rush University Medical Center**

**All talks and award presentations in Fenger/Sippy, Rooms 530-538 unless otherwise noted**
**Posters located in: Brainard, Room 542 & Billings/Herrick, Rooms 531-543**

**8 a.m. – 6 p.m.**
Sigma Xi Poster Session – Open Viewing

**7 – 8:30 a.m. – Room 539 Armour Academic Center**
**Department of Surgery Resident Research Competition Presentations**

**27th Annual Frederick A. dePeyster Memorial Lecture for the Rush Surgical Society**

**INTERVENTIONAL RHINOLOGY: TAKING OWNERSHIP OF CHONIC SINUSITIS**

**Jordan Pritikin, MD**
Director, Chicago Nasal and Sinus Center
President, Rush Surgical Society

**9 – 9:10 a.m. WELCOME**

**Matt Raymond**
Director of Intellectual Property
Forum Program Chair

**9:10 – 9:30 a.m. RESEARCH UPDATE AT RUSH**

**James L. Mulshine,** MD
Professor of Internal Medicine
Associate Provost for Research and Vice President

**9:30 – 10:25 a.m. COLLEGE FACULTY PRESENTATIONS**

**Moderator: George Fitchett**
Director of Research
Religion, Health and Human Values
College of Health Sciences

**UNDERSTANDING SPOKEN LANGUAGE: INSIGHTS FROM THE STUDIES OF INTERRUPTED SPEECH IN OLDER AND HEARING-IMPAIRED ADULTS**

**Valeriy Shafiro,** PhD
Associate Professor
Rush University College of Health Sciences

**THE JOURNEY FROM PRACTICE TO RESEARCH TO POLICY: WHERE ARE WE NOW?**

**Janice Philips,** MS, PhD, RN, FAAN
Associate Professor
Rush University College of Nursing

**IDENTIFICATION AND TARGETING THERAPY RESISTANT OSTEOSARCOMA**

**Carl Maki**, PhD
Associate Professor
Rush University Graduate College and College of Medicine

**GROWTH FACTOR SIGNALING IN BREAST CANCER METASTASIS**

**Jitesh Pratap**, PhD
Assistant Professor Professor
Rush University College of Medicine

**10:30 – 11:55 a.m. COHN SYMPOSIUM DISTINGUISHED LECTURE**

## THE TGFα-CCL2 AXIS IN POST-TRAUMATIC OSTEOARTHRITIS

**FRANK BEIER, PHD**

Professor and Assistant Chair
Department of Physiology and Pharmacology
Schulich School of Medicine and Dentistry
University of Western Ontario

**Introduction: Hee-Jeong Im Sampen, PhD**

**11:55 – 12:15 p.m. BREAK**

**12:15 – 3 p.m. RUSH UNIVERSITY STUDENT PRESENTATIONS**

**GROUP I: 12:15 – 1:45**

**Moderator: Lynne T. Braun, PhD, CNP, FAHA, FAAN**
**Professor**
**Dept of Adult Health & Gerontological Nursing**

CHRONIC ALCOHOL EXPOSURE RENDERS EPITHELIAL CELLS VULNERABLE TO BACTERIAL INFECTION

**Stephen Wood**
GC

**MICRORNAS AS POTENTIAL DIAGNOSTIC BIOMARKERS FOR DIABETIC RETINOPATHY**

**Oliver Fischer**
MC

**EVALUATION OF CALIBRATED AUTOMATED THROMBOGRAM (CAT) TO MONITOR EFFICACY OF BYPASSING THERAPY IN HEMOPHILIA A PATIENTS WITH INHIBITORS**

**Edwin J. Gaviola**
CHS

**THE EXPERIENCES OF AFRICAN AMERICAN MOTHERS IN THE NEONATAL INTENSIVE CARE UNIT: A HERMENEUTIC PILOT STUDY**

**Amanda Kratovil**
CON

**THE USE OF THE ASTHMA BLUES EDUCATIONAL PROGRAM TO IMPROVE ASTHMA KNOWLEDGE**

**Kaynat Saiyed**
CHS

**GROUP II: 1:45 – 3:00**

**Moderator: Sasha Shafikhani, PhD**
**Assistant Professor**
**Department of Immunology and Microbiology**

**IDENTIFICATION OF A NOVEL AGE-RELATED DENDRITIC CELL DEFICIENCY AND ITS IMPACT ON TUMOR IMMUNITY**

**Zachary J. Cohn**
MC

ACTIVATION OF PPAR GAMMA:RXR ALPHA; PATHWAY UPREGULATES TRIPEPTIDYL PEPTIDASE 1 IN BRAIN CELLS: IMPLICATIONS FOR LATE INFANTILE NEURONAL CEROID LIPOFUSCINOSIS THERAPY

**Arunava Ghosh**
GC

**PREFERENTIAL DELETION OF ANTI-TUMOR CD8 T CELLS IN THE CONTEXT OF VIRAL INFECTION**

**Erica J. Huelsmann**
MC

TO CHOOSE OR NOT TO CHOOSE? IMPULSIVE CHOICE IN A RODENT MODEL OF PARKINSON'S DISEASE

**Stephanie Tedford**
GC

**3 – 5 p.m.**

**SIGMA XI POSTER COMPETITION**

Poster oral presentations by students and fellows/residents are reviewed and judged by Rush faculty for Sigma Xi Poster Awards

**Coordinator:**
**Alejandro A. Espinoza Orias,** PhD
President, Rush Chapter of Sigma Xi

**Competition Categories**

- **Student awards by college**
- **Fellow awards (either basic or clinical research)**
- **Graduate Student Council awards**
- **John E. Ware Award for Research on the Patient Experience.**

Announcement of winners will be made Thursday, April 4 at 3:00 PM

# THURSDAY, April 4, 2013

**8 a.m. – 5:30 p.m.** **POSTERS – Open Viewing**

**9:30** **WELCOME**

**9:35 – 11 a.m.** **MENTORING PANEL**

**Moderator: Susan Chubinskaya, PhD**
**Professor of Biochemistry**
**Associate Provost for Academic Affairs**

**INNOVATION OF A VIRTUAL ENVIRONMENT FOR ASSESSING SOCIAL INFORMATION PROCESSING SKILLS IN CHILDREN**

Nicole M. Russo-Ponsaran PhD

**DOES REMOTE REMODELING CONTRIBUTE TO SYSTEMIC DIFFERENCES IN BIOMARKERS FOLLOWING LOCAL SKELETAL INSULT?**

Ryan D. Ross

**GRAY MATTER NEUROIMAGING SIGNATURES OF PARKINSON'S DISEASE HALLUCINATIONS**

Jennifer G. Goldman, MD, MS

**TRIBOCORROSIVE BEHAVIOR OF COMMONLY USED METAL IMPLANT ALLOYS: TI-6AL-4V AND CoCrMo**

Mathew T. Mathew, PhD

**INSTANTANEOUS AXIS OF ROTATION FOR LUMBAR SPINE TORSION MEASURED *IN VIVO***

Alejandro A. Espinoza Orías, PhD

**11:00 – 11:30 a.m.** **BREAK**

**11:30 a.m. – 1:30 p.m.** **RUSH UNIVERSITY COLLEGE AWARDS**

**Moderator:** **Lois Halstead, PhD, RN**
**Vice Provost and Vice President**
**University Affairs**

**Awards will be presented by:**

**David Shelledy,** PhD Dean, College of Health Sciences
**Melanie Dreher,** PhD, RN, FAAN Dean, College of Nursing
**Thomas Deutsch,** MD, Dean, Rush Medical College
**James Mulshine,** MD, Acting Dean, Rush Graduate College

**PATTERNS OF TIME SPENT AND PHYSICAL ACTIVITY INSIDE AND OUTSIDE THE NEIGHBORHOOD IN URBAN ADULTS**

**Jeffery Bevan**
College of Nursing

**GASTROINTESTINAL SIDE EFFECTS AND ADEQUACY OF INTAKE IN HEMATOPOIETIC STEM CELL TRANSPLANT PATIENTS**

**Maegan Walrath**
College of Health Sciences

**DISRUPTION OF Kv4.2 EXPRESSION IN PERI-PLAQUE CA1 APICAL DENDRITES OF THE DORSAL AND VENTRAL HIPPOCAMPUS IN MOUSE MODELS OF ALZHEIMER'S DISEASE**

**Krystina Neuman**
Graduate College

**DETECTION OF EARLY STAGE OVARIAN CANCER BY VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR 2 TARGETED CONTRAST ENHANCED ULTRASOUND IMAGING IN ASSOCIATION WITH ANTI-NUCLEAR MATRIX PROTEIN ANTIBODIES**

**Katarzyna Kadela**
Medical College

**1:30 – 3:00 p.m.** **Open Poster Viewing**

**3:00 – 3:30 p.m.** **ANNOUNCEMENT OF WINNERS OF THE SIGMA XI POSTER COMPETITION**

**Moderator: Alejandro A Espinoza Orias, PhD**
Department of Orthopedics
President, Rush Chapter of Sigma Xi

Dr. Espinoza Orias will announce winners for the monetary awards and certificates of recognition in the following categories:

- Graduate Student from each college
- Fellow/Resident (in either basic or clinical research)
- Graduate Student Council Awards
- John E. Ware Award for Research on the Patient Experience

**3:30 – 5:00 p.m.** **SOCIAL FOR POSTER SESSION**

Poster viewing and discussion with authors

Poster authors should attend their posters according to the following schedule

**3:30 – 4:15 Odd Numbered Posters**
**4:15 – 5:00 Even Numbered Posters**

**5:00 p.m.** **CLOSE OF FORUM**