



Central Research Forum

Thursday
October 22, 2015

Program

3:00-5:00 p.m.

Apollo Room

4:00-4:10 p.m.

E156 Student Union

Poster Set-up

Welcome: Margaret Dunn, M.D., M.B.A.

Boonshoft School of Medicine Dean

4:10-5:00 p.m.

E156 Student Union

Endeavor Room

Keynote Session: The Clinician-Scientist

"Research at WSU – Past, Present and Future"

Timothy Broderick, M.D.

Chief Scientist Professor

Surgery Associate Dean for Research Affairs, BSOM

"Integrating Clinical Trials Into Your Practice"

Loren Friedman, M.S.

Associate Professor, Community Health & Psychiatry Director of Clinical Trials

Wright State University & Premier Health

Clinical Trials Research Alliance

"How to Monetize Basic Research into Practical Revenue-Generating Applications"

Amol Soin, M.D.

Medical Director – The Ohio Pain Clinic

Announcement: Rose Maxwell

RedCap survey implementation

5:00-5:30 p.m.

E156 Student Union

Data Blitz

Thomas L. Brown, Ph.D. (moderator)

Associate Chair for Research, BSOM; Professor, Neuroscience Cell Biology & Physiology and Obstetrics & Gynecology

The following presenters will get 2 minutes each to tell the audience why they should take a closer look at the presenter's research during the poster session.

- Chandra Maharajan
- Abdelfatah Abou Issa
- Minyi Chen
- Walid Mari
- Samuel Roberto, M.D.

5:30-7:30 p.m.

Apollo Room

Reception and Poster Session - See the [CRF 2015 Program](#) (MS Word) for details.

7:30 p.m.

CONCLUSION OF 2015 CENTRAL RESEARCH FORUM

Our Keynote Speakers

Loren Friedman, M.S.

Loren Friedman is an Associate Professor in the Departments of Community Health and Psychiatry at the Boonshoft School of Medicine and the Director of Clinical Trials at the Wright State University / Premier Health - Clinical Trials Research Alliance. He has over 35 years of experience in all aspects of the development and maintenance of clinical trials in both academic and community settings. He previously served as the Director of Clinical Trials at Michigan State University, primarily across the Colleges of Human Medicine, Osteopathic Medicine and Nursing and at the University of Cincinnati at both the Department of Psychiatry and the College of Medicine. His initial experience in clinical research came as an investigator in the Psychopharmacology Program at McLean Hospital where he developed systematic approach to integrating clinical trials into an academic hospital setting.

Amol Soin, M.D.

Dr. Amol Soin is a board-certified physician in both anesthesia and pain management. Dr. Soin has been engaged in several research activities, including initiatives at the Cleveland Clinic and Wright State University. He has authored papers for peer-reviewed medical journals, written textbook chapters in pain management books used to teach other physicians, and been involved with teaching medical students and medical residents the subtle nuances of pain management. Currently, he is a Clinical Assistant Professor of Surgery at Wright State University Medical School. He has also been recognized as one of America's Top Doctors in Pain Management for 2006, 2007, 2008, 2009, and 2010 and was the winner of the "Patient's Choice Award" for the past three years - an award given to only the top 1% of physicians. Dr. Soin won the "Compassionate Physician Award" in 2010 and he serves on the Board of Directors of the Ohio Society of Interventional Pain Physicians, the Board of Directors of Greene Memorial Hospital, and several statewide committees - including acting as the Physician Representative to Pain Management for Medicare. Dr. Soin is triple board-certified in pain management - a distinction held by less than 1% of practicing pain physicians.

In 2007 Dr. Soin founded the Ohio Pain Clinic, and currently serves as the clinic's Medical Director. The Ohio Pain Clinic has achieved recognition as being one the "Best Places to Work" in Dayton as well as the "Rookie Business of the Year 2007" by the Dayton Business Journal."

Dr. Soin is excited to bring the newest and most advanced techniques to treat pain management to his hometown of Dayton, Ohio. Dr. Soin is noted by his colleagues for his strong commitment to ethical patient care and compassion. He practices evidenced-based pain management and avoids the usage of addicting narcotic medications unless all other treatment options have failed. We are please and honored to have Dr. Soin as a member of BSOM's faculty and practicing physician in the Dayton local community.

Posters / Alpha Listing

Poster #	Name	Poster #	Name
17	Abdelfatah Abou Issa	1	Sabrina Metzger
18	Abdelfatah Abou Issa	47	Taylor Miller
19	Abdelfatah Abou Issa	59	Adills Moosa , D.O.
15	Richard Agans	62	Vivina Napier , M.D.
63	Renee Albers	24	James Olson , Ph.D.
38	Zahra Alfaheeda	7	Yoshinori Otani , Ph.D.
23	Praveen Kumar Alla	26	Lydia Paciotti
12	Katlin Allsbrook	9	Tom Pitts , M.D.
10	Eugene Matthew Almazan	3	Moner Ragas
40	Hadel Alsaran	53	Elisabeth Righter , M.D.
46	Joanna Barthelemy	27	Samuel Roberto , M.D.
37	Shimpi Bedi	28	Samuel Roberto , M.D.
34	Robert Carlson , Ph.D.	29	Samuel Roberto , M.D.
39	Minyi Chen	30	Samuel Roberto , M.D.
45	Reilly Clark	35	Eric Romer , Ph.D.
57	Paul DeFlorio , M.D.	42	Suraj Sakaram
49	Emily Delman	33	Saagar Sanghvi
58	Brittney Dietz	31	Jaclyn Scholtz
20	Khalid Elased , Pharm. D., Ph.D.	14	Vijay Shankar
60	Kristen Fite	5	Neelima Sharma , Ph.D.
48	Rujuta Gadgil	56	David Shoemaker
13	Jennifer Gibson	36	Isaie Sibomana
43	Natasha Hill	61	Samantha Simpson , M.D.
22	We'am Hussain	44	Andrew Stacy
52	Jason Ina	55	Andrew Steffensmeier
25	Madelyn Jones	2	Mary Stuever , D.O.
32	Kevin Kawalec	4	Tahir Sulehria
54	Jessica Kirkland	50	John Sullenbarger
41	Andrea Klingler	6	Keiichiro Susuki M.D., Ph.D.
51	Barbara Kraszpulska , Ph.D.	8	Paige Sutton
11	David Ladle , Ph.D.	67	Roman Trimba , M.D.
64	Jeanette Liao , M.D.	66	Rufus Van Dyke , M.D.
21	Chandra Kumar Maharjan	65	Chad Williams , M.D.
16	Walid Mari		

Poster Session

Digital Presentations

Bijan Salari

(Obstetrics and Gynecology)

Bala Bhagavath, Eric Behrman, Wendy Vitek, Sheela Barhan, Jerome L. Yaklic, Steven R. Lindheim

Metroplasty To Treat Chronic Pelvic Pain Resulting from Outflow Tract Mullerian Anomalies

Nathan Droz, M.D.

(Surgery)

Garietta Falls, Chris Micallef, Mark Anstadt, Priti Parikh, Deb Conley, Karen Herzing

Surveillance and Follow up for Blunt Aortic Injury in Patients Undergoing TEVAR

Katherine Babbitt

(Surgery)

Chamilka S. Gunasekera, Priti P. Parikh, Ronald J. Markert, Melissa B. Roelle, Mary C. McCarthy

Incidence of Central Venous Port Complications and Associated Factors

Ryan Walczak

(Surgery)

Margaret M. Dunn, Priti Parikh

A novel, low cost technique for on-table localization of clinically occult, ultrasound visible breast lesions

Ramanjot Kang

Emma C. Sarro, Dan H. Sanes

Rescue of a Hearing Loss-Induced Perceptual Deficit

Traditional Poster Presentations

- 1 Sabrina Metzger**
(Surgery)
Ben A. Schmitt, Kevin T. Carnahan, Dan E. Carver, David B. Reynolds, Mark P. Anstadt
Novel Use of Ultrasound to Characterize Strain Rates in Mock Heart Ventricles
- 2 Mary Stuever, D.O.**
(Surgery)
Johyn Matsuura, Alyssa Bonta, A. Peter Ekeh
Missed Penetrating Injury to the Mid-thigh Femoral Artery. Are we relying too much on CT Angiography?
- 3 Moner Ragas**
(Neuroscience, Cell Biology & Physiology)
Maria H.H. Balch, Danny Wright, Bryce Kerr, Amber Hensley, Kenney Reynolds, Adrian M. Corbett
Appropriate Timing of Fluoxetine and Statin Administration Reduces the Risk of Secondary Hemorrhagic Infarct after Ischemic Stroke
- 4 Tahir Sulehria**
(Neuroscience, Cell Biology & Physiology)
Neelima Sharma, Samantha Gagle, Adrian Corbett
Comparison of Adult Neurogenesis in 10-12 month old Male and Female Sprague Dawley Rats, in response to drug combinations of Fluoxetine, Simvastatin and Ascorbic Acid
- 5 Neelima Sharma, Ph.D.**
(Neuroscience, Cell Biology & Physiology)
Tahir Sulehria, Samantha Gagle, Adrian Corbett
Comparison of Stem Cell Proliferation in the Subventricular Zone of the Lateral Brain Ventricles in 10-12 month old Male and Female Sprague Dawley Rats, and the response to drug combinations of Fluoxetine, Simvastatin, and Ascorbic Acid.
- 6 Keiichiro Susuki, M.D., Ph.D.**
(Neuroscience, Cell Biology & Physiology)
D.R. Zollinger, K.-J. Chang, C. Zhang, C.-R. Tsai, Y. Liu, M.N. Rasband.
Glial betall spectrin stabilizes nodal and paranodal molecular organization

- 7 **Yoshinori Otani, Ph.D.**
(Neuroscience, Cell Biology & Physiology)
L.M. Yermakov, K. Susuki.
Mechanical stress disrupts neuron-glia interactions at nodes of Ranvier

- 8 **Paige Sutton**
(Neurology)
Tom Pitts, Christopher Scheiner
Neurocognitive Decline and Psychosis as Presenting Symptoms of Neurosarcoidosis

- 9 **Tom Pitts, M.D.**
(Neurology)
Barbara Phillips
Early Clinical Recognition & Airway Protection: A Complex Patient With The Miller Fischer Variant Of Guillain-Barré Syndrome

- 10 **Eugene Matthew Almazan**
(Biological Sciences)
Labib Rouhana
Planarian Chemotaxis is Dependent on the Auricle Appendage

- 11 **David Ladle, Ph.D.**
(Neuroscience, Cell Biology & Physiology)
Brenna Gosky, Todd Rapetti, Palak Painter, Yiyun Dai
Analysis of proprioceptive sensory afferent inputs on populations of spinal interneurons in neonatal mice.

- 12 **Katlin Allsbrook**
(Pediatrics)
Marvin Miller
6q24.3-q25.1 syndrome (6q-) with overlapping features of Ehlers-Danlos syndrome type IV

- 13 **Jennifer Gibson**
(Neuroscience, Cell Biology & Physiology)
Pavani Beesetty, J. Ashot Kozak
Distinct morphological and biochemical changes associated with mitogenesis in murine T lymphocytes

- 14 **Vijay Shankar**
(Biochemistry and Molecular Biology)
Mostafa Gouda, Alex Gordon, Jessica Moncivaiz, Nicholas Reo, Laila Hussein, Oleg Paliy
Distal gut microbiota structural, functional, and metabolite profiles differ between healthy adolescents from Egypt and USA
- 15 **Richard Agans**
(Biochemistry and Molecular Biology)
Vijay Shankar, Laura Rigsbee, Jessica Moncivaiz, Oleg Paliy
Dietary fat utilization by human gut microbiota revealed in the in vitro human gut simulator
- 16 **Walid Mari**
(Pharmacology and Toxicology)
Sara Younes, Sami G. Alsabri, Terry Oroszi, Yanfang Chen, David R. Cool, Richard Simman
The Correlation between Wound Healing Rate and Circulating Microvesicles Collected from Stage IV Pressure Wounds Fluid Treated with NPWT Alone Vs. NPWT Plus Oasis Ultra
- 17 **Abdelfatah Abou Issa**
(Pharmacology and Toxicology)
Karen Brown, Walid Mari, David Cool, Richard Simman
Effect of Porcine Intestinal Sub-Mucosa Matrix on the Healing Rate of Stage III & IV Trunk Pressure Wounds
- 18 **Abdelfatah Abou Issa**
(Pharmacology and Toxicology)
Walid Mari, Richard Simman
Clinical Usage Outcome of Porcine Intestinal Sub-Mucosa, a Case Series
- 19 **Abdelfatah Abou Issa**
(Pharmacology and Toxicology)
Richard Simman, Julie M. Gilkeson
Coverage of Exposed Lower Extremity Bypass Vascular Graft with Bi-Laminar Dermal Regeneration Template and NPWT for Limb Salvage

- 20 **Khalid Elased, Pharm.D., Ph.D.**
(Pharmacology and Toxicology)
Laale F. Alawi, Sana Emberesh
Effect of rosiglitazone on renal neprilysin activity and protein expression in db/db diabetic mice
- 21 **Chandra Kumar Maharjan**
(Pharmacology and Toxicology)
Peter K. Lauf, Norma C. Adragna
Demonstration of interaction between Na⁺/K⁺ ATPase pump and Bcl-2 proteins Mcl-1 and Bax by co-immunoprecipitation and immuno-cytochemical co-localization
- 22 **We'am Hussain**
(Pharmacology and Toxicology)
Chandra K. Maharjan, Peter K. Lauf, Norma C. Adragna
Study of molecular proximity between interacting Na⁺/K⁺ ATPase and Bcl-2 proteins by FRET: Preliminary data
- 23 **Praveen Kumar Alla**
(Pharmacology and Toxicology)
Peter K. Lauf, Ioana Pavel, Sessa Paluri, Marjorie Markopoulos, Norma Adragna
Silver Nanoparticles After Ion Transport and Hemoglobin Spectrum in Human Red Blood Cells
- 24 **James Olson, Ph.D.**
(Emergency Medicine)
Courtney Moore, Guangze Li
G-protein coupled activation of the volume-activated anion channel in human astrocytoma cells
- 25 **Madelyn Jones**
(Emergency Medicine)
James Olson
Regulation of hypoosmotic-induced ATP release from human astrocytoma cells through connexons and pannexons

- 26 **Lydia Paciotti**
(Pharmacology and Toxicology)
Stuart Leeds
Benefit of Standardized Systematic Approach to Evaluating OARRS Reports
- 27 **Samuel Roberto, M.D.**
(Internal Medicine)
Thein Aung, Ajay Agarwal
Differential Reversibility in Cardiomyopathy due to Thyroid Dysfunction: A Series of Unique Cases
- 28 **Samuel Roberto, M.D.**
(Internal Medicine)
Thein Aung, Abdul Wase
A Case Of Absent Left Main Coronary Artery and Separate Ostia Of Left Coronary System in A Patient with Holt-Oram Syndrome And Sinus Node Dysfunction
- 29 **Samuel Roberto, M.D.**
(Internal Medicine)
Thein Aung, Mukul Chandra
Mitral Leaflet Vegetations in Three Dimensions: Enhanced clinical visualization with 3D Video
- 30 **Samuel Roberto, M.D.**
(Internal Medicine)
Medical Ethics & Sir William Osler: A Shining Light of Internal Medicine and Relevant Guide for Medical Student & Resident Education Today
- 31 **Jaclyn Scholtz**
(Neurology)
Tom Pitts, Christopher Scheiner
Right Upper Extremity Weakness, Atrophy, Fasciculations, & Diminished Reflexes In A Young Male Patient: A Rare Case Of Multifocal Motor Neuropathy With Conduction Block

- 32 **Kevin Kawalec**
(Psychiatry)
Jeffrey Guina, Ramzi Nahhas, Seth Farnsworth
How Sexual Trauma Affects Men Differently than Women: A Comparison of DSM-5 PTSD Symptomology
- 33 **Saagar Sasnghvi**
(Internal Medicine)
Drew Triplett, Justin Houston, Dean Bricker
The nature of telephone encounters in an internal medicine residency clinic
- 34 **Robert Carlson, Ph.D.**
(Community Health)
Ramzi Nahhas, Silvia Martins, Raminta Daniulaityte
Predictors of Transition to Opioid Dependence among Illicit Pharmaceutical Opioid Users
- 35 **Eric Romer, Ph.D.**
(Biochemistry and Molecular Biology)
D. Hitch, M. Leffak
FANCI helicase recruitment to chromatin is induced in oxidative stress.
- 36 **Isaie Sibomana**
(Biochemistry and Molecular Biology)
Nicholas J. DelRaso, James E. Olson, Nicholas V. Reo
Myo-inositol Increases Ethanolamine Plasmalogen in Neuro-2A Cells and Protects Against Oxidative Stress
- 37 **Shimpi Bedi**
(Biochemistry and Molecular Biology)
S. Dean Rider, Jr., Heather A. Hostetler
Critical Role of Residues in Helices 9 and 10 of the Liver X Receptor Alpha (LXR α) in Mediating Heterodimer Choice between Heterodimeric Complexes
- 38 **Zahra Alfaheeda**
(Pharmacology and Toxicology)
Andrew Snyder, Courtney Sulentic
*The Effect of 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin on Human 3'IGH Regulatory Region*

- 39 **Minyi Chen**
(Biochemistry and Molecular Biology)
Michael Markey, Weiwen Long
Upregulation of ERK3 signaling by oncogenic BRAF mutation in melanoma
- 40 **Hadel Al saran**
(Biochemistry and Molecular Biology)
Weiwen Long, Lobna Elkhadragey
Molecular regulation of ERK3 phosphorylation and functions
- 41 **Andrea Klinger**
(Biochemistry and Molecular Biology)
S. Dean Rider Jr, Heather A. Hostetler
Characterizing the Functional Significance of PPAR/LXR Heterodimers via a Novel Response Element
- 42 **Suraj Sakaram**
(Biochemistry and Molecular Biology)
Ethan Grant, Andrew J Whitlatch, Madhavi Kadaki
Regulation of DNp63a by JNK
- 43 **Natasha Hill**
(Biochemistry and Molecular Biology)
Jin Zhang, Andrew J. Stacy, Suraj Sakaram, Madhavi Kadakia
Novel DeltaNp63alpha regulated miRNA biomarkers involved in EMT
- 44 **Andrew Stacy**
(Biochemistry and Molecular Biology)
Natasha Hill, Jin Zhang, Zack Smith, Madhavi Kadakia
Regulation of DeltaNp63alpha by Tip60
- 45 **Reilly Clark**
(Biochemistry and Molecular Biology)
Jin Zhang, Natasha Hill, Sangeeta Agrawal, Madhavi Kadakia
Differential Expression of miRNAs in Esophageal Adenocarcinoma

- 46 **Joanna Barthelemy**
(Biochemistry and Molecular Biology)
Michael Leffak
FANCI is essential for genome-wide microsatellite stability during replication stress
- 47 **Taylor Miller**
(Biochemistry and Molecular Biology)
Julian Gomez-Cambronero
A New Role for Poly(A)-specific Ribonuclease in Association with Phospholipase D and Phosphatidic Acid
- 48 **Rujuta Gadgil**
(Biochemistry and Molecular Biology)
Todd Lewis, Michael Leffak
Predisposition of Trinucleotide repeats towards DNA breaks
- 49 **Emily Delman**
(Biochemistry and Molecular Biology)
Effects of Synthetic Ligands on Heterodimer Pairs Regarding PPAR, RXR and LXR
- 50 **John Sullenbarger**
(Orthopaedic Surgery, Sports Medicine and Rehabilitation)
Michael Albert, Chris Wild
Prevention of Proximal Junctional Kyphosis/Failure Using Sublaminar Bands in a Hybrid Construct in Pediatric Kyphosis Deformity
- 51 **Barbara Kraszpuska, Ph.D.**
(Neuroscience, Cell Biology and Physiology)
Factors influencing the inclination of whole body and organ donation among medical students
- 52 **Jason Ina**
(Community Health)
Evan Merle, Spencer Barnhill
Prevalence of Disease in Northeastern Rural Jamaica: A Quality Improvement Study

- 53 **Elisabeth Righter, M.D.**
(Family Medicine)
Thao Tran, Abbie Goodman
QI Project: Weight assessment and counseling for children and adolescents
- 54 **Jessica Kirkland**
(Internal Medicine)
Borislav Hristov, Allison Dixon
Significant reduction of contouring time in head and neck cancer patients using a touchpad display
- 55 **Andrew Steffensmeier**
(Community Health)
Kaitlyn Steffensmeier, Krupa Parikh, Sharon Sherlock
Dayton Charter School Health Risk Behavior Study
- 56 **David Shoemaker**
(Family Medicine)
Katherine Clark, Katherine Conway, Jayna Vossler, Therese Zink
A QI Study on Wait Times and Patient Satisfaction in a Level III PCMH
- 57 **Paul DeFlorio, M.D.**
(Emergency Medicine)
The Impact of Emergency Department Based Influenza Vaccination
- 58 **Brittney Dietz**
(Internal Medicine)
Thomas Herchline, Katherine Patton
Antimicrobial Stewardship Program: Implementation and Impact
- 59 **Adills Moosa, D.O.**
(Internal Medicine)
Mustafa Musleh, Padmini Krishnamurthy, Margaret Philips
Hepatic Inflammatory Pseudotumor in a Patient with Primary Sclerosing Cholangitis Masquerading as Cholangiocarcinoma

- 60 **Kristen Fite**
(Biochemistry and Molecular Biology)
Julian Gomez-Cambronero
Downregulation of miRs 203, 887, 3619 and 182 Prevent Vimentin-Triggered, Phospholipase D (PLD)-Mediated Cancer Cell Invasion
- 61 **Samantha Simpson, M.D.**
(Obstetrics and Gynecology)
Steven R. Lindheim, Rose Maxwell, Kate O’Leary, Ilana B. Ressler, Rachel Warwar
Discordance of Antral Follicle Count Between Ovaries Confers No Difference in Clinical Outcome During Art Cycles
- 62 **Vivina Napier, M.D.**
(Obstetrics and Gynecology)
Keith Watson, James Graham, Rachel Warwar, Rose A. Maxwell, Steven R. Lindheim
Preliminary Analysis Of The Use of Barbed Suture at Cesarean Section: A Two-Year Retrospective Analysis
- 63 **Renee Albers**
(Neuroscience, Cell Biology, and Physiology)
Melissa R. Kaufman, Chanel Keoni, Martha Hughes, Gaurav Kaushik, Bryony Natale, David Natale, Thomas L. Brown
Placental-Specific Hypoxia Inducible Factor-1 alpha as a Model of Preeclampsia
- 64 **Jeanette Liao, M.D.**
(Internal Medicine)
Dean Bricker
Common cold or rare life threatening illness? A healthy college student presents with sore throat and fever
- 65 **Chad Williams, M.D.**
(Orthopaedic Surgery, Sports Medicine and Rehabilitation)
Jed May, Geoffrey Reisser, Ronald Markert, Mathew Lawless, Ryan Bauman
The Effect of Topical Tranexamic Acid during Arthroplasty of the Knee on Blood Loss

- 66 **Rufus Van Dyke, M.D.**
(Orthopaedic Surgery, Sports Medicine and Rehabilitation)
Roman Trimba, Sejul Chaudhary, Greg Gould, Richard Laughlin
A Biomechanical Comparison of Two Suture Types in the Repair of Midsubstance Achilles Tendon Rupture
- 67 **Roman Trimba, M.D.**
(Orthopaedic Surgery, Sports Medicine and Rehabilitation)
Roman Trimba, Eric Szymanski, Brandon Horne, Indresh Venkatarayappa
A Novel Method for Detection of a Traumatic Knee Arthrotomy

Save the Date

The next Central Research Forum will be held Thursday, October 13, 2016.

Please remember to mark your calendar, and save the date!



Office of Research Affairs