Central Research Forum

Thursday
October 16, 2014
3:00-5:00 p.m.  
Apollo Room  
**POSTER SET-UP**

4:00-4:10 p.m.  
Endeavor Room  
**WELCOME**

4:10-5:00 p.m.  
Endeavor Room  
**MARJORIE BOWMAN, M.D., M.P.A.**  
*Dean, Boonshoft School of Medicine*

4:10-5:00 p.m.  
Endeavor Room  
**KEYNOTE SESSION: THE CLINICIAN-SCIENTIST**

"Why I love what I do"  
**STEVEN LINDHEIM, M.D., M.M.M**  
*Professor, Director, Reproductive Endocrinology & Infertility, Department of Obstetrics and Gynecology*

"My development as a clinician scientist"  
**MARK M. RICH, M.D., PH.D.**  
*Professor of Neuroscience, Cell Biology, and Physiology, and Neurology*

"Me and YPEL3" From the bench to the bedside: YPEL3 expression in ER+ breast tumors.  
**KELLY L. R. MILLER, M.D., PH.D.**  
*Internal Medicine Resident*

**ARTHUR S. PICKOFF, M.D. (HOST)**  
*Interim Associate Dean for Research Affairs*

5:00-5:30 p.m.  
Endeavor Room  
**DATA BLITZ**

**MARK RICH, M.D., PH.D. (MODERATOR)**  
*Professor of Neuroscience, Cell Biology, and Physiology and Neurology*

- Tariq Alqahtani #9  
- Najmus Sahar #70  
- Rosalyn Scott #14  
- Eric Romer #6  
- Patrick McCullough #34  
- Amanpreet Singh #17  
- April Ruffin #78  
- Alison Bales #52  
- Jameson Dennis #53  
- Christen Johnson #54  
- Shumei Man #41  
- Austin Brown #67  
- Lynsey J. Cox #3

5:30 p.m.  
Apollo Room, MPR  
**RECEPTION AND POSTER SESSION FOLLOW IMMEDIATELY**

7:30 p.m.  
**CONCLUSION OF 2013 CENTRAL RESEARCH FORUM**
## Posters/Alpha Listing

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<td>Madhupriya Mahankali</td>
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Central Research Forum 2
1  Jason Massengill  
(Obstetrics and Gynecology)  
Eric Lombardini, Jonathan Oliva, Jerome Buller, Daniel Gruber  
_Ultrasonic Thermal Damage During Robotic Hysterectomy_  

2  Matthew Cowan  
(Obstetrics and Gynecology)  
Keith Watson, Katherine Lin, Michael Galloway  
_Vertical Vaginal Cuff Closure Using the V-Loc Barbed Suture at Robotic Hysterectomy Compared to Transverse Interrupted Cuff Closure: A Two Year Analysis_  

3  Lynsey J. Cox  
(Obstetrics and Gynecology)  
Justin P. Fox, Andrea D. Shields  
_Hospital Based Acute Care Among Patients Recently Discharged from the Hospital for Common Obstetrical and Gynecological Procedures_  

4  Joanna Barthelemy  
(Biochemistry and Molecular Biology)  
Michael Leffak  
_Microsatellite stabilization by FANC J helicase_  

5  Todd Lewis  
(Biochemistry and Molecular Biology)  
Michael Leffak  
_Effectors of DNA Repeat Stability_  

6  Eric Romer  
(Biochemistry and Molecular Biology)  
Michael Leffak  
_Knock-down of Base Excision Repair Proteins Induces Microhomology-Mediated Repair at an Ectopic Trinucleotide Repeat Locus._
7 Olivia Thoele  
(Pediatrics, Medical Genetics)  
Leslie Willis, Heather Workman, Rae Jean Spatz, Sue Ann Berend, Marvin Miller  
The Utilization of High Resolution Chromosome Analysis, Array CGH, and FISH in detecting a Complex Chromosome Rearrangement in a Male Patient with der(20)t(X;20)(q28;p13)  

8 Kylin Lammers  
(Pediatrics, Medical Genetics)  
Haiying Meng, Marvin Miller, John Wiley  
Carrying cri-du-chat: a case report of 46, XX, del (5) (p15.32)mat  

9 Tariq Alqahtani  
(Pharmacology and Toxicology)  
Karin Flues, Jaroslaw Meller, Norma C. Adragna, Peter K Lauf  
Interaction between Na/K ATPase and Bcl-2 proteins BclXCL and BAK.  

10 Pankaj Patyal  
(Pharmacology and Toxicology)  
David Cha, Jeannine M. Crum, F. J. Alvarez-Leefmans  
Molecular pathways for water fluxes in choroid plexus epithelial cells: AQP4 protein expression  

11 Mary Stuever  
(Surgery)  
Kimberly Hendershot, Andrew Russeau, Priti Parikh, Mary McCarthy, A. Peter Ekeh  
The Geriatric Trauma Team: A novel approach to caring for elderly trauma patients.  

12 Kara Joseph  
(Surgery)  
Priti Parikh, A. Peter Ekeh, Garietta Falls  
A System Analysis for Follow Up in Traumatic Blunt Aortic Injury Patients Who Undergo TEVAR: 8-year Experience of a Level I Trauma Center  

13 Riyad Tayim  
(Surgery)  
Akpofure (Peter) Ekeh, Mary McCarthy  
Prevention of Unplanned Invasive Device Removal in Trauma Patients: A Detailed Analysis of Trends Surrounding Removal Events  

Central Research Forum 4
14 Rosalyn Scott  
(Surgery)  
Gwenn Randall, Chase Smith, Eric Buchannan, Megan Pera, Jesse Burgard  
*Optimally Applying a Full Range of Simulation Modalities to Teach Psychomotor, Cognitive and Communication Skills Across a Vertically Integrated Service Network*

15 Shimpi Bedi  
(Biochemistry and Molecular Biology)  
Genesis Hines, S. Dean Rider Jr., Heather A. Hostetler  
*Medium Chain Fatty Acids as Preferential Endogenous Ligands of LXR alpha*

16 Natasha Hill  
(Biochemistry and Molecular Biology)  
Mary K. Leonard, Jin Zhang and Madhavi Kadakia  
*Differential effects of 1α25-dihydroxyvitamin D3 dose on Keratinocyte Proliferation and ΔNp63α Stabilization*

17 Amanpreet Singh  
(Biochemistry and Molecular Biology)  
Yong-jie Xu  
*A novel mechanism of hydroxyurea-induced cell death in the fission yeast Scizosaccharomyces pombe*

18 Martha Sonner  
(Neuroscience, Cell Biology, and Physiology)  
David R. Ladle  
*Analysis of proprioceptive endings in the mouse soleus muscle using a transgenic mouse model*

19 David Ladle  
(Neuroscience, Cell Biology, and Physiology)  
Patrick Sonner, Marisela Dallman  
*Direct cutaneous modulation of motoneuron activity: a novel monosynaptic circuit with spinal motoneurons*

20 Lawrence Prochaska  
(Biochemistry and Molecular Biology)  
Khadijeh Alnajjar  
*Removal of Endogenous Phospholipids of Rhodobacter Sphaeroides Cytochrome c Oxidase Affects the Flexibility of the Enzyme*
21 **Lobna Elkhadragy**  
*(Biochemistry and Molecular Biology)*  
Naveen Muppani, Sreeram Vallabhaneni, Alsaran Hadel Mohammed, Ka Bian, Weiwen Long  
*Dissecting the molecular regulation and functions of ERK3 kinase signaling in tumor growth and metastasis*

22 **Keerti Potluri**  
*(Biochemistry and Molecular Biology)*  
Ahmed Mahas, Michael Markey, Michael Kent  
*Genomic DNA Extraction from Embedded Tissue for Array Comparative Genomic Hybridization*

23 **Elizabeth Swartzwelder-Cozad**  
*(Internal Medicine)*  
Dean Bricker  
*Remitting Seronegative Symmetrical Synovitis with Pitting Edema - A Case Report*

24 **Saduf Ullah**  
*(Internal Medicine)*  
Amit Bansal, Ronald Markert, Debora Moore, Ankur Gupta  
*Quality of Testosterone Replacement Prescribing and Monitoring at Veterans Affairs Medical Center*

25 **Francis Speranza**  
*(Biochemistry and Molecular Biology)*  
Madhu Mahankali, Julian Gomez-Cambronero  
*Macrophage Migration Arrest due to a Winning Balance of Rac2/Sp1 Repression over Beta-Catenin Induced PLD expression*

26 **Karen M. Henkels**  
*(Biochemistry and Molecular Biology)*  
Gregory P. Boivin, Emily S. Dudley, Steven J. Berberich, Julian Gomez-Cambronero  
*Phospholipase D (PLD) Drives Cell Invasion, Growth and Metastasis in a Human Breast Cancer Xenograph Model*

27 **Madhupriya Mahankali**  
*(Biochemistry and Molecular Biology)*  
Karen Henkels, Julian Gomez-Cambronero  
*Intra-molecular regulation of dual enzyme activities of phospholipase D2*
28 Elizabeth Mallets  
(Biochemistry and Molecular Biology)  
Julian Gomez-Cambronero  
*Phospholipase D2 Accelerates Wound Healing Through the Notch Receptor Pathway*

29 Kristen Fite  
(Biomedical Sciences)  
Jimmy Readler, Julian Gomez-Cambronero  
*Investigating a protein binding site of aurora A kinase to phosphatidic acid.*

30 Jinju Wang  
(Biomedical Science)  
Shuzhen Chen, Yanfang Chen  
*iPSC-derived progenitors ameliorate H/R-induced apoptosis and ROS overproduction of neurons and endothelial cells*

31 Isaie Sibomana  
(Biochemistry and Molecular Biology/BMS PhD. Program)  
Nicholas J. DelRaso, David R. Mattie, Michael L. Raymer, Nicholas V. Reo  
*‘Functional Metabolomics’ Enhances Assessment of Tissue Function as Demonstrated in a Rat Model of Low-Dose D-Serine Exposure*

32 Urszula Warncke  
(Biochemistry and Molecular Biology)  
Beata Lecka-Czernik, Nicholas V. Reo  
*Effects of a High-fat Diet and Anti-diabetic Drugs on Bone Marrow Lipid Composition in Mice*

33 Vijay Shankar  
(Biochemistry and Molecular Biology)  
D. Homer, L. Rigsbee, H. J. Khamis, M. Raymer, N. V. Reo, O. Paliy  
*Simultaneous interrogation of fecal metabolites and microbes reveals differences in the network of gut microbe-metabolite associations between health and irritable bowel syndrome.*

34 Patrick McCullough  
(Psychiatry)  
Douglas Lehrer  
*Safety of Daily Dosing with Oral Vitamin D3 Using Doses of 5000 International Units (IU) or 10,000 IU for 12 to 29 Months in Long-Term Hospitalized Patients.*
35 Krupa Parikh  
*(Psychiatry)*  
Natalie Pyatka, Christina Waite  
*Long-term use of Valproic Acid and Hyperammonemia*

36 Robert Carlson  
*(Community Health)*  
Ramzi W. Nahhas, Silvia Martins, Raminta Daniulaityte  
*Predictors of Transition to Heroin Use among Non-Opioid Dependent Illicit Pharmaceutical Opioid Users.*

37 Timothy Lane  
*(Community Health)*  
Raminta Daniulaityte, Robert Carlson  
*Accidental Drug Overdose Deaths in Montgomery County, Ohio, 2010-2013*

38 Raminta Daniulaityte  
*(Community Health); CECS*  
R. Carlson, D. Cameron, G. A. Smith, A. P. Sheth  
*When less is more: A web-based study of user beliefs about buprenorphine dosing in self-treatment of opioid withdrawal symptoms*

39 Jason Hehr  
*(Surgery)*  
Ronald Markert, Jonathan Saxe  
*Substance Abuse and Perioperative Pain Management in Trauma Patients*

40 Jessica Lee  
*(Orthopaedic Surgery)*  
Peter Shorten, Richard Laughlin, Ronald Markert  
*The Impact of the 80-Hour Work Week on Orthopaedic In-Training Examination and the American Board of Orthopaedic (Surgery) Part 1 examination Scores*

41 Shumei Man  
*(Neurology)*  
Muhammad S. Hussain, Esteban Cheng-Ching, Dolora Wisco, Gabor Toth, Ken Uchino  
*Infarct Evolution and Neurological Outcome after Endovascular Therapy for Acute Ischemic Stroke*
42 Jacob Vincent
(Neuroscience, Cell Biology, and Physiology)
Hanna Gabriel, Paul Nardelli, Timothy Cope
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43 Jonathan Stofer
(Community Health)
Naila Khalil, Cristina Redko
Adverse Health Effects of Intestinal Parasitic Infections in Rural Peruvian Clinic Patients

44 Cristina Redko
(Community Health)
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45 Nikki Rogers
(Community Health)
Cristina Redko, Linda J. Smith, Andy Carlson
Reframing Skin-to-Skin-contact and Kangaroo Mother Care as frugal technologies for all newborns and adaptable to all global health contexts

46 Michael Dohn
(Community Health)
Santa Altagracia Jiménez Méndez, Maximinia Nolasco Pozo, Elizabet Altagracia Cabrera, & Anita L. Dohn
A gender gap in attitudes and opinions related to factors in gender-based violence: a survey of Dominican youth on gender roles and stereotypes, women's rights, self-efficacy and peer pressure, and the acceptability of violence against women

47 Thomas (TJ) Klein
(Fulbright Scholarly Research)
Tahani Al-Ghasani, Majda Al-Ghasani, Amna Akbar, Elias Tang, Yahya M. Al-Farsi
Development of a Novel Mobile Application to Screen for Autism Among Arabic-Speaking Communities in Oman

48 Therese Zink
(Family Medicine)
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49  **Kate Conway**  
(Family Medicine)  
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*Assessing Mental Health Burden, Trends, and Diagnosis in Refugees*

50  **RJ Sontag**  
(Family Medicine)  
Therese Zink  
*No Oasis in this Desert: Identification and Implications of the Food Desert around an Urban Ohio Hospital*

51  **Sonia Bennett**  
(Family Medicine)  
Elisabeth Righter  
*Practice Improvement Project: Implementation of a Reminder Sign Regarding Uncontrolled Hypertension.*

52  **Alison Bales**  
(Surgery)  
Robert Charles Siska, Michael Andrew Schneider, Echo VanderWal, Harry VanderWal, Mary C. McCarthy  
*HIV Prevention in Swaziland: Rate of Adverse Events from Voluntary Medical Male Circumcisions in Relation to Age, Weight and Seasonal Temperature Differences*

53  **Jameson Dennis**  
(Surgery)  
Harry VanderWal, Echo VanderWal, Mary C. McCarthy  
*Pain Assessment in Circumcision Patients in Swaziland*

54  **Christen Johnson**  
(Community Health)  
Sara J. Paton  
*The socioeconomic status of adolescent mothers and its relationship to prenatal care and fetal health in Franklin County, Ohio*

55  **Miryoung Lee**  
(Community Health)  
Audrey C. Choh, Bradford Towne, Wm. Cameron Chumlea, Roger M. Siervogel, Stefan A. Czerwinskki  
*Fat patterning is associated with arterial stiffness: The Fels Longitudinal Study*
56  Linda Smith  
(Community Health)  
Safe sleep vs. breastfeeding: Why is this issue still controversial?

57  Matthew Peterson  
(Community Health)  
Miriam C. Morey, Harvey J. Cohen  
Allostatic Load of Circulating Biomarkers on Gait Speed in Cancer Survivors

58  Katie Coyne  
(Obstetrics and Gynecology)  
Kate O'Leary, Jerome Yaklic, Leah D. Whigham, and Steven R. Lindheim  
Gestational Carriers (GC) BMI and Reproductive, Fetal and Neonatal Outcomes: Are The Risks The Same With Increasing Obesity?

59  Stephen Kujansuu  
(Obstetrics and Gynecology)  
Bijan W. Salari, Michael Galloway, Austin Findley, Jerome L. Yaklic, Jason Massengill, and Steven R. Lindheim  
Contained Morcellation Using the GelPOINT® Advance Access Platforms and 3M™ Steri-Drape™ Endobag

60  Mahesh Chandra Kodali  
(Pharmacology and Toxicology)  
William C. Grunwald, Steven R. Lindheim, David R. Cool  
Proteomic analysis of follicular fluid from polycystic ovary syndrome (PCOS) in obese and lean patients.

61  Shamili Sammohi  
(Pharmacology and Toxicology)  
Ziad A. Haider, David Mckenna, David R. Cool  
Effect of tocolytic medications on synthesis and secretion of surfactant in an in-vitro human lung cell model

62  Renee Albers  
(Neuroscience, Cell Biology, and Physiology)  
Renee E. Albers, Melissa R. Kaufman, Chanel Keoni, Savannah Doliboa, Martha Hughes, Bryony Natale, David Natale and Thomas L. Brown  
Placental-Specific Prolonged Activity of Hypoxia-Inducible Factor 1 alpha (HIF-1α): A Mouse Model of Preeclampsia
63  **Cathy Graham**  
*(Neuroscience, Cell Biology, and Physiology)*  
Ke-Yong Li, Robert W. Putnam  
*Three Dimensional Structure and Association with Blood Vessels of Chemosensitive and Nonchemosensitive Locus Coeruleus (LC) Neurons from Neonatal Rats*

64  **James Olson**  
*(Emergency Medicine)*  
Amanda Gutwein  
*Stimulation-induced volume changes of the CA1 region in rat hippocampal slices.*

65  **Kelsey Mayrand**  
*(Emergency Medicine)*  
Eric Fischer, Raymond P. Ten Eyck  
*Factors Improving the Depth of Chest Compressions during Cardiopulmonary Resuscitation - A Randomized, Controlled Simulation Study*

66  **Brian Patterson**  
*(Emergency Medicine)*  
Raymond Ten Eyck, Adam Altman, Brittani Purkeypile, Bethany Grace Sibbitt, Zach IlGiovine, Nick Christian, Josh Wenzell, Natasha Mehta  
*Interdisciplinary Team Learning—Simulation Lab, Undergraduate Medical Education, BSN/PharmD/MD*

67  **Austin Brown**  
*(Pediatrics)*  
Tiffany B. Hunter, Kelly Hanlon, Richard Rapp, John Pascoe  
*Pediatricians’ Role in the Behavioral Health Care Referral Process*

68  **Ann Burke**  
*(Pediatrics)*  
Shalini G. Forbis, Daniel J. Schumacher, Kadriye O. Lewis, Adrienne Stolfi  
*The (Pediatrics) Milestones: Obtaining Faculty Perspectives Through Cognitive Interviewing*

69  **Smita Krishnamurthy**  
*(Pathology)*  
Paul Koles, and Nicole Borges  
*Interactive Case Vignette and Slide-based Pathology Modules Improve Student Understanding of Disease Processes.*
70 **Najmus Sahar**  
*(Internal Medicine)*  
Asghar Ali, Patrick Elangw, Steven D. Burddette  
*Scurvy: A Forgotten Syndrome*

71 **Charles Strulovitch**  
*(Internal Medicine/Hospice and Palliative Care)*  
Loveleen Bains, Damanjeet Kahlon, Geetika Kumar, Kathy Hayes, Tronica Wheeler  
*ICU- Collaborative Approach to Palliative Care Delivery*

72 **Dan Halm**  
*(Neuroscience, Cell Biology, and Physiology)*  
Susan Halm  
*Aldosterone activates colonic K secretion via BK channels (KCa1.1) and membrane trafficking*

73 **Keiichiro Susuki**  
*(Neuroscience, Cell Biology, and Physiology)*  
*Molecular mechanisms of myelinated nerve formation and injury*

74 **Jake Sheff**  
*(Pediatrics)*  
Shalini Forbis, Adrienne Stolfi, Arthur S. Pickoff  
*Parental Knowledge of Cardiac Condition and Health Literacy*

75 **Thao-Vi Dao**  
*(Pediatrics)*  
Mitchell Camp, Sherman Alter, Adrienne Stolfi  
*Pertussis Epidemiological Trends in the Miami Valley Region from May 2013 to February 2014*

76 **Blake Szelestey**  
*(Pediatrics)*  
Brian Mehling, Dongcheng Wu, Marina Manvelyan, Adrienne Stolfi, Arthur S. Pickoff  
*Stem Cell Therapy for Spinal Cord Injury: A Retrospective Chart Review*

77 **Emily Sweet**  
*(Surgery)*  
Minia Hellan, James Ouellette  
*Minimally Invasive Techniques for Resection of Gastric Submucosal Tumors*
78 April Ruffin  
(Surgery)  
Frederico Tozzi, Minia Hellan, and Priti Parikh  
Robotic (Surgery) Training during Residency: Knowledge and Perception of Residents.

79 Bassam Kashgari  
(Microbiology and Immunology/Pharmacology and Toxicology)  
Courtney Sulentic  
Determining The Role of The AhR In Ig Expression And Class Switch Recombination

80 Zahra Alfaheeda  
(Microbiology and Immunology/Pharmacology and Toxicology)  
Michael J. Wourms, Naga Lakshmi Kaulini Burra, Courtney E. W. Sulentic  
Chemical Regulators Of The 3'IghRR Through AhR And Non-AhR Pathway.

81 Naga Lakshmi Kaulini Burra  
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Brooke Johnson, Courtney E W Sulentic  
Effect of TCDD on Immunoglobulin Expression in Human B Cells

82 Andrew Snyder  
(Pharmacology and Toxicology)  
Sharon Ochs, Brooke Johnson, Courtney Sulentic  
TCDD-induced activation of the human Igh hs1,2 enhancer is partially regulated by nuclear factor 1

83 Sriram Raju  
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Sriram Raju, Ahmad Al-yacoub, Subhashini Ganapathy  
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84 Rahul Bodduluri  
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85 Xiang Xiao  
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Xiaotang Ma, Huilai Miao, Cheng Zhang, Jinju Wang, Langni Liu, Shuzhen Chen, Rong Zeng, Yanfang Chen, Ji C. Bihl  
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86 Ji Bihl  
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*Chronic Infusion Of Angiotensin-(1-7) Alleviates Cerebral Hemorrhagic Injury Compromised By Angiotensin II*

87 Kavya Annu  
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T.L. Garrett, J.B. Lucot, H. Castrop, M.DiFulvio  
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88 Natalie Pyatka  
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Caroline G.L. Cao  
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89 Katherine Babbitt  
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Rob Hoskins, Caroline Cao  
*Vibrotactile Feedback and Stochastic Resonance in a Laparoscopic Palpation Task*

90 Sridevi Gutta  
(Pharmacology and Toxicology)  
Nadja Grobe, Hassan Osman, Mohammad Saklayan, Khalid M. Elased  
*Increased Urinary Angiotensin Converting Enzyme 2 (ACE2) in Type 2 Diabetic Patients (T2DM)*

91 Laale F. Alawi  
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Nadja Grobe, Sana E. Embresh, Khalid M. Elased  
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