



Department of Pharmacology & Toxicology
Annual Report

2014

Norma Adragna, Ph.D.
Professor and Interim Chair

For the period including
January 1, 2014 — December 31, 2014

1

Statement from the Chair

[Highlights of the year limited to 500 words]

i. Pharmacology & Toxicology Mini-Symposium

Dr. Norma Adragna served as Interim Chair. Several guest speakers were brought in to assist and educate the faculty. Ms. Amber McCurdy, Medical Student Research Coordinator, presented information regarding medical students and future requirements to their curriculum with research and offered assistance with grant writing.

Ms. Jeannette Horwitz, Director, LEAP explained the process of international students learning English. Mr. Loren Freidman spoke about CTRA activities and how faculty can be matched with clinical opportunities.

Pharmacology & Toxicology hosted a mini-symposium with Dr. Zijian Xie, Director at Marshall Institute for Interdisciplinary Research.

Dr. Ji Bihl was promoted to Research Assistant Professor June 2014.

Dr. Elased was invited for a Special Emphasis Panel/Scientific Review Group "NIH/NIDDK: Biomarkers for Diabetes, Kidney Diseases and Urology (R01)-PAR -13-228".

Drs. Elased and Grobe were invited Speaker for the 3rd International Symposium of the Renin Angiotensin System (RAS): Understanding systemic, Intracellular and Tissue RAS. School of Medicine, Universidade Federal de Sao Paulo, Brazil.

Terry Oroszi is working with Dr. Larry C. James on a book, Weapons of Mass Psychological Destruction and The People Who Use Them.

Dr. Chen has three new publications in Neuropharmacology, Plos one, CNS Neuroscience and Therapeutics. He was also invited as abstract grader for 2014 AHA scientific sections.

Dr. Grobe received a travel award to attend the 3rd International Symposium of the Renin Angiotensin System School of Medicine, Universidad Federal de Sao Paulo, Brazil.

Several faculty have pending grants such as Drs. Cool, Di Fulvio, Elased, Grobe, and Sulentic

2 Programs/Divisions

Name of Division or Program	Director	Dates
[Provide a description here of programs/divisions within the department including directors and participating faculty]		
Cell Biophysics	Norma Adragna, Ph.D.	2003-present
Proteome Analysis Laboratory	David Cool, Ph.D.	2004-present
Nanotoxicology Research	Saber Hussain, Ph.D.	2010-present
Therapeutics Curriculum	Mary Jo Trout, PharmD	2013-present
CBRN Certificate Program	Terry Oroszi, M.S.	2013-present
Master's Program	Terry Oroszi, M.S.	2008-present
Training Program	Khalid Elased, PharmD, Ph.D.	2013-present
Training Program	Courtney Sulentic, Ph.D.	2013-present

3 Fully Affiliated Faculty (may be the same as #2 above for some depts)

Name and Academic Position	Clinical Interests	Research Interests
[list fully affiliated faculty, including statement of clinical and research interests]		
Norma Adragna, Ph.D., Professor and Interim Chair		Cardiovascular, ion transport, cell signaling, cellular physiology, membrane transport, cancer biology
Francisco Javier Alvarez-Leefmans, M.D., Ph.D., Professor		Neuroscience, molecular physiology & pharmacology, clinical neurology
Ji Bihl, Ph.D., Research Assistant Professor		Cerebrovascular diseases and diabetes, specifically in developing novel predictive and therapeutic avenues for hemorrhagic stroke and vascular complications of diabetes.
Yanfang Chen, M.D., Ph.D., Associate Professor		Cardiovascular disease, cerebrovascular complications

Name and Academic Position	Clinical Interests	Research Interests
David Cool, Ph.D., Professor	OBGYN Pre-eclampsia, Interstitial cystitis	Translational research, snake venom
Mauricio Di Fulvio, Ph.D., Assistant Professor		Diabetes
Khalid Elased, PharmD., Ph.D., Associate Professor		Diabetes, cardiovascular
Nadja Grobe, Ph.D., Research Assistant, Professor		Diabetes, cardiovascular
Saber Hussain, Ph.D., Professor		Nanoparticles
Tom Lockwood, Ph.D., Associate Professor		Nature invented lysosomes in order to separate the environment of metals, redox and protons from other cell compartments.
Jim Lucot, Ph.D., Professor		Neurobehavioral/neurochemicals, diabetes
Terry Oroszi, M.S., Research Instructor, Graduate Program Director, CBRN Defense Program Director, Co-chair EMDP Advisory Board	Translational medicine	Group decision making and meeting behaviors
Richard Simman, M.D., Associate Professor	Wound Care, Plastic Surgery	Wound care treatment
Courtney Sulentic, Ph.D., Associate Professor		Immunology
Mary Jo Trout, Pharm.D., Assistant Professor	Medical training, Therapeutics curriculum	

4 Teaching

Baccalaureate [any course for a bachelor's degree]

Dr. Alvarez-Leefmans

David Cha, Undergrad Honors student

Mauricio Di Fulvio

Eduardo Diaz, USA-Brazil Consortium

Khalid Elased

Lesan Mattis, Grad Prep

Kamilla Silva, USA-Brazil Consortium

Renata Farah, USA-Brazil Consortium

Aline Dalmazo, USA-Brazil Consortium

Dr. Lucot

Marie Heis, BioStar

Te'Karia Hurley, STREAMS

Dr. Sulentic

Brooke Johnson, Lab Assistant

Aubrey Morris, Lab Assistant

Graduate students, including thesis supervision [master's, doctor's post-doctoral]

Dr. Adragna

Students

Thesis Director:

Neelima Sharma, BMS student, 2009-2014, graduated, June 2014
Jasser Alzhrani, MS student, 2013-present
Kranthi K. Chougoni, MS student, 2014-present
Praveen Alla, MS student, 2014-present
Silpika Kovvali, MS student, 2014-present.

Thesis Co-Director:

Chandra Maharjan, MS Student, 2014-present
Ravina Ashteputre, MS Student, 2014-present.

Thesis Adviser/Committee Member:

Wedad Saqar, MS student, graduated 2014
Tariq Alqahtani, MS student, graduated 2015
Mohamed Almiahou, MS committee member, graduated 2014
Mohammed Almutairi, MS committee member, graduated 2014
Shams Kursan, MS committee member, graduated 2014
Hala Ammar, MS committee member, graduated 2014
Langni Liu, MS committee member, 2014-present.

Lab Rotations:

Kranthi K. Chougoni, 2014
Praveen Alla, 2014
Silpika Kovvali, 2014
Chandra Maharjan, 2014
Ravina Ashteputre, 2014

Review Writing:

Nobil Murghum, P&T MS
Muna Osman, P&T MS
Mohamad Zweitt, P&T MS

Supervisor:

Nagendra B. Ravilla, Research Assistant, 2013-2014
Karin Flues, Ph.D. January-November 2014
Neelima Sharma, Research Assistant, 2014-present

Courses

PTX 9220 – Effective Scientific Writing: Part 1, Co-Director, Part2, Director

Dr. Alvarez-Leefmans

Jeannine Crum, Year 7 BMS PhD student
Pankay Patyal, MS thesis
Andy Koester, BMS PhD thesis advisory, graduated 2014
Adam Deardorff, BMS PhD thesis advisory, expected graduation 2015
David Dixon, M&I MS student, thesis advisory
Hind Obaid Albeshri, M&I MS student, thesis advisory

Courses

Effective Scientific Writing: Part 1, Course Director
BMS 8750 Neuroscience & Physiology, (2) lectures
P&N Ion Channels, (2) lectures

Dr. Ji Bihl

Courses

PTX 8000 Spring Cell Culture, course director
PTX 8000 Summer Cell Culture, course director
PTX8000 Fall Cell Culture, course director

Dr. Yanfang Chen

Langni Liu, P&T MS student
Nomula Mounica, MS student
Deekshith Vanamala, P&T MS student
Jinju Wang, BMS PhD student (formally P&T student)
Xiang Xiao, BMS PhD student (formally P&T student)
Ji Chen, MD, PhD, post-doctoral
Chuanfang Chen, MD visiting scholar

Dr. David Cool

Ming Zhou, MD, OB/GYN Miami Valley Resident Research Fellow
Jason Retzke, MD, OB/GYN Miami Valley Resident Research Fellow
Kari Rudinsky, MD, Fellow
Ziad Hadar, MD, Fellow
Amol Molshe, MD Fellow
Kathryn Ibbotson, MS advisor, expected graduation 2015
Hala Ammar, MS committee member, graduated 2014
Ekta Shah, MS advisor, graduated 2014
Mohammed Alturi, MS committee member, graduated 2014
Shamili Samohi, MS Advisor, expected graduation 2015
Ashvin Iyer, MS Advisor, expected graduation 2015
Mahesh Kodali, MS Advisor, expected graduation 2015
Venus Ebrahimian, MS Advisor, thesis complete 2014
Mackenzie Newman, MS Advisor, thesis complete 2014
Richard Salisbury, ES PhD committee member, graduated 2014
Ryan Yoakum, BMS PhD committee member, expected graduation 2015
David Ellis, BMS PhD committee member, expected graduation 2015
Eric Romer, BMS PhD committee member, graduated 2014
Dawahl Oswal, BMS PhD committee member, graduated 2014
Neelima Sharma BMS PhD committee member, graduated 2014
Prakash Arumagam, BMS PhD Co-Advisor, expected graduation 2015
Jinju Wang, BMS PhD committee member, expected graduation 2016
Anthony Politio, BMS PhD Co-Advisor, expected graduation 2015
Brian Stogsdill, BMS PhD committee member, expected graduation 2016

Courses

PTX 7400 Laboratory Management, Course director
PTX 7500 Research Techniques, Course director
BMS 805 Intercellular Communication

Dr. Mauricio Di Fulvio

Mohamed Almiahou, MS Advisor, graduated 2014
Mohammed Almutairi, MS Advisor, graduated 2014
Shams Kursan, MS Advisor, graduated 2014
Nada Kashkari, MS thesis committee
Andrew Snyder, BMS MS thesis committee
Kavia Annu, MS thesis committee
Kaulini Burra, MS thesis committee

Courses

PTX 7300 DNA Damage & Repair, co-director
PTX7300 – Control of Cell Cycle, co-director
PTX 7300 – Endocrine Disruption, co-director
PTX 7110 – Journal Club
BMS 7670 – Monogenic Diabetes, 2 lectures

Dr. Khalid Elased

Sridevi Gutta, MS Advisor, graduated 2014
Laale Alawi, MS Advisor, expected graduation 2015
Sana Emberesh, MS Advisor, graduated 2014
Nada Kashkari, MS Advisor, graduated 2014
Brenda Owuor, MS Advisor, expected graduation 2015
Dhawal Oswald, BMS PhD thesis advisory, graduated 2014

Courses

PTX 7200 – Biokinetics/Biodynamics, 2 hrs lectures
PTX 8300 – Integrative Pharmacology & Toxicology Methods, 1 lecture
PTX 7300 – Cellular Molecular Toxicology, Cardiovascular
PTX 7300 - Cellular Molecular Toxicology, Obesity & Diabetes
PTX 9220 – Scientific Writing, co-director

Dr. Nadja Grobe

Kavya Annu, MS thesis supervision
Shamili Sammohi, MS thesis supervision
Tariq Alqahtani, MS thesis supervision
Laala Alawi, MS thesis supervision
Sana Emberesh, MS thesis supervision
Sridevi Gutta, MS thesis supervision

Courses

PHA 800 – Principles of Biomedical Research, guest lecturer
PTX 7120 – Thesis Proposal Preparation Class, Director/Instructor

Dr. Saber Hussain

David Ellis, BMS PhD thesis supervision
Anthony Polito, BMS PhD thesis supervision
Rose Cooper, MS thesis
Monita Sharma, BMS MS thesis advisory, graduated 2014
Eric Romer, BMS PhD thesis advisory, graduated 2014

Dr. Lucot

Kavya Annu, MS thesis advisory

Courses

PTX 7300 – Cellular Molecular Toxicology, Co-Director, 12 hr lecture
PTX 7200 – Biokinetics/Biodynamics, 9 hr presentation, 14 hr in class participation
PTX 9120 – Effective Scientific Writing Pt 1
PTX 9120 – Effective Scientific Writing Pt 2

Terry Oroszi

Leadership advising, P&T MS students:

Amruta Pradhan
Cierra Bell,
Hala Alsheikh
Hector Nava
Joshua Buck
Majdi Abdulmaula
Muna Osman
Nusieba Ibrahim
Abdulmagid Sherif
Ahmed Alsagri
Bader Althuwaini
Bala Karri
Daniel Baker
Faraq Mosa
Hassan Alhejaili
Jawaher Aldurayhim

Manar Hajjan
Nagasudheer Balusu
Nnaemeka Obianagha
Sara Younes
Saud Thabet
Siham Abdulla
Yetunde Fajulugbe
Yousef Aljohani
Cathy Graham

Courses

PTX 8000 – Independent Study, various
PTX 8120 – Case Studies CBRN Defense
PTX 8200 – Communications in Science
PTX 9120 – Effective Scientific Writing Pt 1
PTX 9120 – Effective Scientific Writing Pt 2

Dr. Richard Simman

Adbelfatah Issa, MS Advisor
Walid Saad, MS Advisor
Amanda Gedeit, Graduate Medical Resident
Donald Tait, Graduate Medical Resident
Nick Hess, Graduate Medical Resident
Nick Gould, Graduate Medical Resident

Course

P&T Wound Healing

Dr. Courtney Sulentic

Andrew Snyder, BMS PhD Advisor
David Ellis, BMS PhD Advisor
Richard Salisbury, ES PhD Advisor
Zahra Alfaheeda, M&I MS research trainee
Naga Burra, MS Advisor
Basam Kashgari M&I MS Advisor
Abdulla Freiwan M&I MS Advisor, graduated 2014

Graduate Advisory Committee:

Kevin Novak BMS PhD
Tu Thien Danh, BMS PhD
Sumeet Poudel, BMS PhD
Anthony Polito, BMS PhD
Todd Lewis, BMS PhD
Joanna Barthelemy, BMS PhD
Shannon Romer, BMS PhD
Adam Deardorff, BMS PhD
Dima Sbenaty, M&I MS
Kelley Williams M&I MS
Bradley Gregg, M&I MS
Ekta Shah, MS, graduated 2014

Courses

PTX 7200 – Biokinetics/Biodynamics, 2 hr
PTX 7300 – Cellular Pharm/Tox, Director, lecturer 16 hrs, faculty facilitator
M&I 7260 – Microbiology and Immunology, lecturer 16 hrs
M&I 7260 – Microbiology and Immunology Seminar Course, co-director 28 hrs
BMS 7010 – The Molecular Basis of Inherited Disease, lecturer 3 hrs
MBS 8050 – Intercellular Communication, lecturer 4.5 hrs

Undergraduate medical education [medical school]

Dr. Alvarez Leefmans

Lecture on back pain with Dr. M. Rich

Dr. David Cool

SMD 535 – Hypersensitivity Lecture 2nd yr SOM, online lecture 3 hours

SMD 521 – CATO Hormone Synthesis 1st yr SOM, 2 hours

SMD 561 – Reproduction Teratogens in Preg., 2nd yr SOM, 1 hour

Dr. Khalid Elased

SMD 535 – Pathobiology & Therapeutics for 2nd year SOM

Dr. Jim Lucot

SMD 562 – 4 hours

Graduate medical education [residents, fellows]

Dr. David Cool

Miami Valley Hospital – Translational Research Training Fellowship

Women's Health Collaborative Research Foundation with Dr. Steve Lindheim

Reproductive Tissue – translational research with Drs. Steve Lindheim & Yaklic.

Dr. Richard Simman

Amanda Gedeit, Graduate Medical Resident

Donald Tait, Graduate Medical Resident

Nick Hess, Graduate Medical Resident

Nick Gould, Graduate Medical Resident

Continuing medical education [grand rounds, seminars]

Dr. Ji Bihl

P&T Seminar: "The Endothelial Progenitor Cells: Therapeutic Potential for Ischemic Stroke"

Terry Oroszi

Working with Dr. Simman on turning his semester long course into a week-long 8 credit CME course that Certified Wound Specialists has asked WSU BSoM to create.

Other

5

Scholarly Activity

Funded grants [List PI(s), grant title, funding source, amount of award, and dates of award. Please list each grant only once. Identify student & resident authors, i.e., *=student author **=resident/fellow]

Dr. Norma Adragna

Harvard Medical School. PI, Functional, molecular characterization and regulation of ion transporters in isogenic Human epithelial cell lines (IHECLs) with inducible expression of KCC3, \$50,000.

NSF/EHS. Collaborative proposal: Developing a battery of methods for the study of the trafficking mechanisms and transformations of silver and gold nanomaterials in human cells Co-P.I., \$ 300,000 (WSU & Stanford).

Dr. Ji Bihl

American Heart Association (13POST14780018): "Role of angiotensin II/angiotensin (1-7) in intracerebral hemorrhagic stroke", 2013.1-2014.12, PI, Ji Chen, \$86,000

Dr. Yanfang Chen

NIH RO1 (HL098637): "Balance of Angiotensin II/Angiotensin (1-7): A Target in Ischemic Stroke", 2010-2015, PI, \$1,442,822

Kettering Medical Funds: "Effects of Oasis Matrix on Stage III and IV Trunk Pressure Wounds Treated with Negative Pressure Wound Treatment", 2014.5-2016.4, PI, \$26,000

NIH R25 (1R25HL103168): "Short-term Research Education Program to Increase Diversity in Health-related Research (STREAMS)", 2010-2016, Faculty Mentor (Program Director: Dr. Mariana Morris/Stefan Czerwinski), \$541,664

NIH R25 (GM086257): "PREP Scholar Program", 2010-2015, Faculty Mentor (Program Director: Dr. Mariana Morris/ Stefan Czerwinski), 1,247,186

Emergency Medicine Foundation, "The neuroprotective effects of cerium oxide nanoparticles in Acute Stroke", 2014-2015, Co-I (PI, John Trentini), \$5,000

Dr. Khalid Elased

Department of Education P116M100027, 2010-2015, Translational Biomedical Training for Under-represented Minorities, PI, \$ 238,048

BSOM Emerging Science Seed Grant, Urinary ACE2 is a biomarker of diabetic nephropathy, 2013-2014, PI, \$ 12,500, (Co-PI Nadja Grobe)

DHHS, NIH R01, Angiotensin Converting Enzyme Balance in the Cardiovascular Complication of Diabetes, 2008-2014, Co-PI, \$1.783 million

Dr. Nadja Grobe

Grants for Laboratory Animal Sciences, CO2 concentration for mouse euthanasia, 09/01/2014-08/31/2015 Co-PI (G. Boivin, PI), \$30,000

F32DK093226 NIH/NIDDK Ruth L. Kirschstein NRSA Postdoctoral Fellowship, Molecular Imaging of the tissue renin angiotensin system, 09/01/2011-08/31/2014, PI, \$ 150,234

Dr. Jim Lucot

Analytical services, contract \$1500

Analytical services, contract \$2000

Dr. Richard Simman

Effect of Oasis Ultra Tri-Layer Matrix on Stage III and IV trunk pressure wounds treated with Negative Pressure Wound Therapy (NPWT). Smith & Nephew, Medical Director, Wound Care Program and Surgical Services at Kindred Hospital Wound Care Program Director, The Oaks of West Kettering, Aug 2014-present, \$56,000

Dr. Courtney Sulentic

5R25GM090122, National Institute of general Medical Sciences (08/01/2011-06/30/2016) Biomedical Scholars Program (BioSTAR), Initiative for Maximizing Student Development (IMSD), Program Director

Emerging Science Seed grant program, WSU: "Effect of specific genetic and environmental factors on Ig heavy chain expression"

Proteomic Seed grant program, WSU: "Identification of a novel caspase cleavage product of IκBα"

Publications [List each publication only once; do not list manuscripts in press. List only publications from the year covered by this report.]

Dr. Norma Adragna

Interaction between Na-K-ATPase and Bcl-2 proteins BclXI and Bak. Peter K. Lauf, Tariq Alqahtani, Karin Flues and Norma C. Adragna. *Am J Physiol Cell Physiol*. Published 1 January 2015 Vol. 308 no. 1, C51-C60 DOI: 10.1152/ajpcell.00287.2014

Dr. Ji Bihl (also included in other publications under other P&T Faculty)

Chen J, Zhao Y, Chen S, Wang J, Xiao X, Ma X, Penchikala M, Xia H, Lazartigues E, Zhao B, Chen Y, "Neuronal Over-expression of ACE2 protects brain from ischemia-induced damage," *Neuropharmacology*, 2014, 79: 550-558. PMID: PMC 3992949.

Xiao X, Bi K, Liu Y, Fan R, Zhao Y, Ma X, Wang J, Zhao B, Chen Y, Chen J, "Cellular membrane microparticles: potential targets of combinational therapy for vascular disease," *Curr Vasc Pharmacol*, 2014: Oct 14.

Dr. Yanfang Chen

Jiyu Wen, Xiaojun Wen, Jinju Wang, Yang Shu, Zhidong Qiu, Zhongkai Liu, Ran Li, Guofang Zeng, Shiting Bao, Huilai Miao, Yanfang Chen*, and Mingyi Li. Anti-cancer Effects of Glypican-3 on Huh-7 Hepatocellular Carcinoma Cells. *J Cell Sci Ther* 2014, 5: 186

Dan Yi, Ji Chen, Machenzie S Newman, Yanfang Chen*, Richard Simman. The Preliminary Study of Effects of Tolifenamic Acid on Cell Proliferation, Cell Apoptosis, and Intracellular Collagen Deposition in Keloid Fibroblasts In Vitro. *Dermatology Research and Practice* 2014;2014:736957.

Jian-ying Chen, An Ran, Jin-ju Wang, Shu-zhen Chen, Zhen-jun Liu, Mian-ming Hong, Jing-hu Liu, Meng-yuan Xiao, Yan-fang Chen*. Effects of mesenchymal stem cell-derived microvesicles on treating pulmonary arterial hypertension. *Acta Pharmacologica Sinica* 2014, 35(9):1121-8

Wang YK, Shen D, Hao Q, Yu Q, Wu ZT, Deng Y, Chen YF, Yuan WJ, Hu QK, Su DF, Wang WZ. Overexpression of angiotensin-converting enzyme 2 attenuates tonically active glutamatergic input to the rostral ventrolateral medulla in hypertensive rats. *Am J Physiol Heart Circ Physiol* 2014;307: H182–H190

Jiaoling Zheng, Guangze Li, Shuzhen Chen, Ji Chen, Joshua Buck, Yulan Zhu; Huijing Xia, Eric Lazartigues, Yanfang Chen*, James E. Olson. Activation of the ACE2/Ang-(1-7)/Mas pathway reduces oxygen-glucose deprivation induced tissue swelling, ROS production, and cell death in mouse brain with angiotensin II overproduction. *Neurosciences* 2014; 273 (2014) 39–51

Gu S, Zhang W, Chen J, Ma R, Xiao X, Ma X, Yao Z, Chen Y*. EPC-derived microvesicles protect cardiomyocytes from Ang II-induced hypertrophy and apoptosis. *PLoS ONE* 2014; 9(1):e85396

Zheng JL, Li GZ, Chen SZ, Wang JJ, Olson JE, Xia HJ, Lazartigues E, Zhu YL, Chen YF*. Angiotensin converting enzyme 2/Ang-(1-7)/Mas axis protects brain from ischemic injury with a tendency of age-dependence. *CNS Neurosci Ther*. 2014; 20(5):452-9.

Dr. David Cool

Wrenshall, LE, Clabaugh, SE, Cool, DR, Arumugam, P, Grunwald, Jr., WC, Smith, DR, Liu, G, and Miller, JD, A Dimeric Form of Interleukin-2 is Present in Murine Tissues and Cytotoxic to IL-2 Receptor-Bearing Cells. *PLoSOne* 9: e102191 (2014) DOI 10.1371/pone.0102191

Rutherford, C.M., Grunwald, Jr., W. C., Garrett, C.M., Cool, D.R., Cutaneous effect of chlorpyrifos on acetylcholinesterase and endocrine tissues in rats. *J. Env. Imm. Toxicol.* (2014) 2(2) 63-71. 10.7178/jeit.27

Dr. Khalid Elased

Salem ESB, Nadja Grobe N, Elased KM (2014). Insulin Treatment Attenuates Renal ADAM17 and ACE2 Shedding in Akita Diabetic Mice. *Am J Physiol Renal Physiol* 306: F629-F639. PMID: 24452639.

Somineni HK, Boivin GP, Elased KM (2014). Daily exercise training protects against albuminuria and Angiotensin Converting Enzyme 2 (ACE2) shedding in db/db diabetic mice. *Journal of Endocrinology* 221: 243-259. PMID: 24756098.

Boivin GP, Schultze AK, Egleide EY, Chodavarapu H, Hunter AS, Elased KM (2014). Biomechanical Properties and Histology of Achilles Tendons in db/db Mice. *Muscles, Ligaments and Tendons Journal* 4(3): 280-284. PMID: 25489543

Dr. Nadja Grobe

Alghamri MS, Morris M, Meszaros JG, Elased KE, Grobe N (2014). Novel role of aminopeptidase-A in angiotensin-(1-7) metabolism post myocardial infarction. *Am J Physiol Heart Circ Physiol* 306 (7): H1032-1040.
Salem ESB, Grobe N, Elased KM (2014). Insulin treatment attenuates renal ADAM17 and ACE2 shedding in Akita diabetic mice. *Am J Physiol Renal Physiol* 306 (6): F629-639.

Dr. Saber Hussain

Braydich-Stolle LK, Breitner EK, Comfort KK, Schlager JJ, Hussain SM. (2014). The Dynamic Characteristics of Silver Nanoparticles in Physiological Fluids: Toxicological Implications. *Langmuir*, DOI: 10.1021/la5036079

Tilly TB, Kerr LL, Braydich-Stolle LK, Schlager JJ, and Hussain SM. (2014). Dispersions of geometric TiO₂ nanomaterials and their toxicity to RPMI 2650 nasal epithelial cells. *Journal of Nanoparticle Research* 16 (11), 1-15.

Comfort KK, Maurer EI, and Hussain SM. (2014). Slow release of ions from internalized silver nanoparticles modifies the epidermal growth factor signaling response. *Colloids and Surfaces B: Biointerfaces*, doi:10.1016/j.colsurfb.2014.09.008

Jain K, Kohli E, Prasad D, Kamal K, Hussain SM, and Singh SB. (2014). In Vitro Cytotoxicity Assessment of Metal Oxide Nanoparticles. *Nanomedicine and Nanobiology*, 1 (1), 10-19

Gajewicz A, Schaeublin NM, Rasulev B, Hussain SM, Leszczynska D, Puzyn T, and Leszczynski J. (2014). Towards understanding mechanisms governing cytotoxicity of metal oxides nanoparticles: Hints from nano-QSAR studies. *Nanotoxicology*, 1-13.(available on line)

Comfort KK, Braydich-Stolle LK, Maurer EI, Hussain SM. (2014) Less Is More: Long-Term in Vitro Exposure to Low Levels of Silver Nanoparticles Provides New Insights for Nanomaterial Evaluation. *ACS Nano*, 8(4), 3260-3271.

Kah JC, Grabinski C, Untener E, Garrett C, Chen J, Zhu D, Hussain SM, Hamad-Schifferli K. (2014) Protein coronas on gold nanorods passivated with amphiphilic ligands affect cytotoxicity and cellular response to penicillin/streptomycin. *ACS Nano*. 8(5):4608-20

Lee CH, Syu SH, Chen YS, Hussain SM, Onischuk AA, Chen WL, and Huang GS. (2014). Gold nanoparticles regulate the blimp1/pax5 pathway and enhance antibody secretion in B-cells. *Nanotechnology*, 25, 125103.

Grabinski CM, Salaklang J, Garrett CM, Schrand AM, Petrie-Fink A, Hofmann H, and Hussain SM. (2014) Multi-Functionalized Spions for Nuclear Targeting: Cell Uptake and Gene Expression. *NANO* 09, 1450009 (2014) DOI: 10.1142/S179329201450009X

Maurer EI, Sharma M, Schlager JJ, Hussain SM. (2014) Systematic analysis of silver nanoparticle ionic dissolution by tangential flow filtration: toxicological implications. *Nanotoxicology* 8, 718-727.

Dr. Jim Lucot

Furman, A.R., T.L. Garrett, C.M. Rapp, D.G. Watson, J.B. Lucot. A comparison of the sensitivity of different strains of mice to sarin. *Military Medical Science Letters*83(3):90-96, 2014.

Lucot, J.B., Brame, R.E., Garrett, T.L, Pfadenhauer, E.H., Kumar A., Fick D.B., Helton D.R. The broad-spectrum antiemetic effects of ETI-385 result from stimulation of 5-HT1A and 5-HT1D receptors. *Exp. Brain. Res.* 232(8) 2699-2707, 2014.

Sharma A.N, Ligade S.S., Sharma J.N, Shukla P., Elased K.M., Lucot J.B., GLP-1 receptor agonist liraglutide reverses long-term atypical antipsychotic treatment associated behavioral depression and metabolic abnormalities in rats. *Metab. Brain. Dis.* 2014, Epub ahead of print. PMD 25023888.

Dr. Richard Simman

Yi D, Newman M, Chen J, Chen Y, Simman R. (September 2014) Effects of Tolfenamic Acid on Cell Proliferation, Cell Apoptosis, and Intracellular Collagen Deposition in Keloid Fibroblasts In Vitro. *Dermatology Research and Practice*. Vol. 2014, Article ID 736957

Simman R, Reynolds D. Bilateral Gluteal Ischemic Necrosis Due to Severe Vascular Disease Mistaken for Stage IV Pressure Wound. *Journal of Wound, Ostomy and Continence Nursing*. (Accepted August 2014)

Abou Issa A, Newman M, Simman R. Toe Necrosis Etiologies and Treatment, Case Series Presentation. (December 2014). *Journal of the American College of Clinical Wound Specialists*. 5 (2), 26-35.

Simman R. (December 2014). Letter from the Editor. *Journal of the American College of Clinical Wound Specialists*. 5 (2): 25.

Maroz N, Simman R. (June 2014) Wound Healing in Patients with Impaired Kidney Function. *Journal of the American College of Clinical Wound Specialists*. 5(1): 2-7.

Dr. Courtney Sulentic

Sharma, M., Salisbury, R., Hussain, S., Sulentic, C. E. W.: Gold nanoparticles induce transcriptional activity of NF- κ B in a B-lymphocyte cell line. *Nanoscale*, 5:3747 (2014)

Books, chapters, reviews

Dr. Ji Bihl

Xiao X, Bi K, Liu Y, Fan R, Zhao Y, Ma X, Wang J, Zhao B, Chen Y, Chen J, "Cellular membrane microparticles: potential targets of combinational therapy for vascular disease," *Curr Vasc Pharmacol*, 2014: Oct 14.

Dr. Mauricio Di Fulvio

Chloride Channels and Transporters in b-cell Physiology. Di Fulvio M, Peter Brown and Lydia Aguilar-Bryan. In: *The Islets of Langerhans*. 2nd Ed. Md. Shahidul Islam M.D., Ph.D. Springer Netherlands. 2014

Published abstracts

Dr. Norma Adragna

A Putative Model for K-Cl Cotransporter 3 (KCC3) in the control of K and Cell Volume Homeostasis in Double-Alanine Mutant HEK 293 Cells. Norma C Adragna, Nagendra Ravilla, Kristopher Kahle and Peter Lauf, 49th Annual Lake Cumberland Biological Transport Group, P. 4, 2014.

Apelin Regulation of K-Cl Cotransport is Dependent on Expected and Unexpected Physiological Factors. Norma Adragna, Neelima Sharma and Peter Lauf, 49th Annual Lake Cumberland Biological Transport Group, p. 5, 2014.

Canonical Bcl-2 Motifs Confer Sensor Role upon Na/K ATPase (NKA) for Bcl-2 Signaling of Cellular Functional State: Current Progress. Peter K Lauf, Tariq Alqahtani, Karin Flues and Norma C. Adragna. 49th Annual Lake Cumberland Biological Transport Group, p. 5, 2014.

Canonical Bcl-2 motifs confer sensor role upon Na/K ATPase for Bcl-2 signaling of cellular functional state. Peter K Lauf, Juith Heiny, Jarek Meller, Gerald M Alter, Ioana P Sizemore, and Norma C Adragna Lecture, September 4, 2014. ASBMB Special and 14th International Symposium on "Na,K-ATPases and Related Transport ATPases: Structure, Mechanism, Cell Biology, Health and Disease. ASBMB Special Symposia, p. 7, 2014.

Interaction between NKA and Na/K ATPase and Bcl-2 Proteins BclXL and BAK. Tariq Alqahtani, Karin Flues, Jaroslaw Meller, Norma C Adragna, and Peter K Lauf, 29th Meeting of the Ohio Physiological Society, Miami University, Abstract book, Abstract, 2014.

Interaction between NKA and Na/K ATPase and Bcl-2 Proteins BclXL and BAK. Tariq Alqahtani, Karine Flues, Jaroslaw Meller, Norma C Adragna, and Peter K Lauf, Central Research Forum, Boonshoft School of Medicine, Wright State University, Abstract book, Abstract 9, 2014.

Dr. Alvarez-Leefmans

Patyal, P., Cha, D., Crum, J.M., & Alvarez-Leefmans, F.J Molecular pathways for water fluxes in mouse choroid plexus epithelial cells: AQP4 protein expression. Boonshoft SOM Central Research Forum, Dayton, OH. 10/16/2014, Abstract 10

Patyal, P., Cha, D., Crum, J.M., & Alvarez-Leefmans, F.J Molecular pathways for water fluxes in mouse choroid plexus epithelial cells: AQP4 protein expression. 29th meeting of the Ohio Physiological Society, Oxford, OH. Abstract 13, p20, 2014. 10/18/2014

Cha, D., Crum, J.M., & Alvarez-Leefmans, F.J. Molecular pathways for water fluxes in mouse choroid plexus epithelial cells. (presented at Experimental Biology, San Diego, CA 2014). April 2014 The FASEB Journal vol. 28 no. 1 Supplement 1182.3

Crum, J.M., & Alvarez-Leefmans, F.J. Function of NKCC1 cotransporter in choroid plexus epithelial cells. 739. Blood Brain Barrier: Cell Biology, Physiology, and Disease, Washington DC 11-19-14

Dr. Ji Bihl

Chen J, Xiao X, Chen S, Zhang C, Wang J, Chen Y, "Ang-(1-7) counteracts Ang II in regulating cerebral endothelial cell function and gene expression," ATVB annual meeting in 2014, Toronto, Ontario, Canada, 2014

Bihl J, Xiao X, Chen S, Zhang C, Wang J, Zhao B, Chen Y, "Chronic infusion of angiotensin-(1-7) alleviates cerebral hemorrhagic injury compromised by angiotensin II," High Blood Pressure Research Scientific Sessions, San Francisco CA, 2014

Dr. David Cool

Shah, E., Grunwald, Jr., W.C., Garrett, T., Brown, T.L., Lucot, J.B., Cool, D.R., Effect of Q-VD-OPh on Neurodegeneration and Neuroinflammation of Sarin-Exposed Mice, FASEB, 2014.

Hadar, Z., Cool, D.R., McKenna, D., Effect of Tocolytic Medications on Synthesis and Secretion of Surfactant in an In Vitro Human Lung Cell Model. Society of Maternal Fetal Medicine. 2014.

Batchellor, A.E., Martinez, A., Lindheim, S., Cool, D.R., Grunwald, Jr., W.C., DiPaola, K.B., Sroga, J.M., Elevated levels of diabetes associated peptide hormones are found in follicular fluid and serum of obese polycystic ovary syndrome patients. 70th American Society of Reproductive Medicine (2014).

Kodali, M., Grunwald, Jr., W.C., Lindheim, S., Cool, D.R., Elevated levels of diabetes associated peptide hormones are found in follicular fluid and serum of obese polycystic ovary syndrome patients. OVSOT September 2014.

Dr. Mauricio Di Fulvio

Expression of the neuron-specific Cl⁻ cotransporter Slc12a5 and a new splice variant in pancreatic islet β -cells: implications for insulin secretion. Shams Kursan, Mohammed Almutairi, Lydia Aguilar-Bryan and Mauricio Di Fulvio. Gordon Research Conference, Membrane Transport Proteins, July 2014, West Dover, VT

Dr. Khalid Elased

Grobe N, Alawi L, Emberesh S, Dalmazo A, Elased KM. Urinary aminopeptidase A is a novel biomarker for renal dysfunction in the two-kidney, one-clip mouse model of renovascular hypertension. Location: Philadelphia, PA, November 13-16, 2014. Sponsor (s): American Society of Nephrology Kidney Week Annual Meeting.

Gutta S, Grobe N, Osman H, Saklayen M, Elased KM. Increased Urinary Angiotensin Converting Enzyme 2 (ACE2) in Type 2 Diabetes Patients. Conference: Scientific Sessions of High Blood Pressure Research. Location: San Francisco, CA, September 9-12, 2014. Sponsor(s): Council High Blood Pressure Research, Council Kidney Cardiovascular Disease & Inter-American Society of Hypertension. Hypertension 61: 462P, 2014

Kashkari N, Grobe N, Chodavarapu H, Somineni HK, Di Fulvio M, Elased KM. Evidence for the Expression of Renin Angiotensin System (RAS) and a Disintegrin and Metalloproteinase (ADAM) 17-mediated shedding of ACE2 in COS-7 cells. Conference: Scientific Sessions of High Blood Pressure Research. Location: San Francisco, CA, September 9-12, 2014. Sponsor(s): Councils of High Blood Pressure Research, Council Kidney Cardiovascular Disease & Inter-American Society of Hypertension. Hypertension 61: 462P, 2014

Grobe N, Alawi L, Emberesh S, Dalmazo A, Elased KM. Regulation of aminopeptidase A in mice with renovascular hypertension Conference: 1st PanAmerican Congress of Physiological Sciences Location: Iguassu Falls, Brazil,

August 2-6, 2014. Sponsor(s): American Physiological society, Experimental Physiology (UK), Canadian Physiological Society, International Union of Physiological Sciences, International Society for Heart Research Latin America section, Physiological society of Argentina

Hicham Ismail*, MS4, Paul Koles, MD, Adrian Corbett, PhD, Khalid M. Elased, PharmD, PhD, Adrienne Stolfi, MSPH, Nicole Borges, PhD, Dean Parmelee, MD. Does Participation in Team-Based Learning Affect Medical Students' Longer-Term Learning? Conference: Central Group on Educational Affairs (CGEA) Spring Conference Location: Cleveland, OH, March 27-29, 2014. Sponsor(s): Association of American Medical Colleges Central Group on Educational Affairs, Cleveland Clinic Lerner College of Medicine and Case Western Reserve University School of Medicine. *Recipient of a CGEA Student Travel Scholarship (funded by CGEA)

Grobe N & Elased KM. Mass Spectrometry MALDI imaging of the renin angiotensin system facilitates the discovery of new biomarkers for chronic kidney disease. Conference: Gordon Research Conference: The Renin-Angiotensin System Beyond Angiotensin II Location: Tuscany, Italy, March 2-7, 2014. Sponsor(s): Gordon Research Conferences & Pharmaceutical companies

Grobe N & Elased KM. MALDI imaging as a powerful tool for high-throughput screening of in situ enzyme activities. 29th Meeting of the Ohio Physiological Society held in Miami University, Oxford, OH, October 17-18, 2014.

Hicham Ismail, Paul Koles, Adrian Corbett, Khalid M. Elased, Adrienne Stolfi, Nicole Borges, Dean Parmelee. Does Participation in Team-Based Learning Affect Medical Students' Longer-Term Learning? Wright State University Boonshoff School of Medicine, Sixth Annual Medical Student Research Symposium. Dayton, OH, USA, April 10, 2014

Gutta S, Grobe N, Osman H, Saklayen M, Elased KM. Increased Urinary Angiotensin Converting Enzyme 2 (ACE2) in Diabetic patients with Chronic Kidney Disease. Celebration of Research, Scholarship, and Creative Activities at Wright State University. Dayton, OH, April 11, 2014.

Mattis LK, Elased KM, Grobe N. Use of hair follicles as a non-invasive sampling technique for genotyping for ACE2 and AT1R Knockout Mice. Celebration of Research, Scholarship, and Creative Activities at Wright State University. Dayton, OH, April 11, 2014.

Emberesh SE, Alawi L, Gutta S, Grobe N, Elased KM. Effect of Rosiglitazone on Renal and Urinary Nephilysin (NEP) in db/db Diabetic Mice. Celebration of Research, Scholarship, and Creative Activities at Wright State University. Dayton, OH, April 11, 2014.

Alawi L, Grobe N, Emberesh SE, Elased KM. Role of AT1a receptor in 2K1C model of renovascular hypertension and its impact on Renal Nephilysin (NEP) Protein Expression. Celebration of Research, Scholarship, and Creative Activities at Wright State University. Dayton, OH, April 11, 2014

Dr. Nadja Grobe

Grobe N, Alawi L, Emberesh S, Dalmazo A, Elased KM. Urinary aminopeptidase A is a novel biomarker for renal dysfunction in the two-kidney, one-clip mouse model of renovascular hypertension. American Society of Nephrology 2014.

Grobe N, Elased KM. MALDI imaging as a powerful tool for high-throughput screening of in situ enzyme activities. 29th Meeting of the Ohio Physiological Society 2014. (Oral presentation)

Grobe N, Gutta S, Osman H, Saklayen M, Elased KM. Use of mass spectrometry for the development of new biomarkers for diabetic nephropathy. International Society of Hypertension New Investigator Symposium on Hypertension and Cardiovascular Disease 2014. (Oral presentation)

Grobe N, Kashkari N, Chodavarapu H, Somineni HK, Di Fulvio M, Elased KM. Evidence for the expression of renin angiotensin system (RAS) and a disintegrin and metalloproteinase (ADAM) 17-mediated shedding of ACE2 in COS-7 cells. International Society of Hypertension New Investigator Symposium on Hypertension and Cardiovascular Disease 2014.

Gutta S, Grobe N, Osman H, Saklayen M, Elased KM. Increased urinary angiotensin converting enzyme 2 (ACE2) in type 2 diabetic patients. Hypertension 2014.

Kashkari N, Grobe N, Chodavarapu H, Somineni HK, Singh R, Di Fulvio M, Elased KM. Evidence for the expression of renin angiotensin system (RAS) and a disintegrin and metalloproteinase (ADAM) 17-mediated shedding of ACE2 in COS-7. Hypertension 2014.

Grobe N, Alawi L, Emberesh S, Dalmazo A, Elased KM. Regulation of aminopeptidase A in mice with renovascular hypertension. 1st PanAmerican Congress of Physiological Sciences, Iguassu Falls, Brazil.

Gutta S, Grobe N, Osman H, Saklayen M, Elased KM. Increased urinary angiotensin converting enzyme 2 in diabetic patients. Celebration of Research, Wright State University 2014.

Alawi L, Grobe N, Emberesh S, Elased KM. Role of AT1 receptor in 2K1C model of renovascular hypertension and its impact on renal neprilysin protein expression. Celebration of Research, Wright State University 2014.

Allison JR, Aoun B, Bryan N, Diaz G, Fagan RL, Fazi D, Gander PE, Greising SM, Grobe N, Linte CA, Safayi S, Sonner P, Zamanian M, Wilson N. The Midwest Postdoctoral Forum (MWPDF), an innovative model for regional collaboration among postdoctoral communities. 12th Annual Meeting of the National Postdoctoral Association 2014, St. Louis, MO.

Grobe N & Elased KM. Mass Spectrometry MALDI imaging of the renin angiotensin system facilitates the discovery of new biomarkers for chronic kidney disease. Angiotensin Gordon Research Conference 2014, Lucca, Italy. (Oral presentation)

Dr. Saber Hussain

Total published abstracts: 20 (not listed on report)

Dr. Jim Lucot

Heis, M., Garrett T.k Boivin, G.P., Somineni, H, Elased, K, Lucot, J.B. The effects of exercise and metformin on monamine activity in db/db mice. Annual Miomed. Res. Conf. Minority Students. San Antonio, TX, 2014

Dr. Courtney Sulentic

Freiwan, A. K., Johnson, B., Sulentic, C. E. W.: Elucidating the role of the polymorphic human hs1,2 enhancer in the effects of TCDD. Toxicological Sciences, the Toxicologist, 138:2022, 2014.

Snyder, A., Ochs, S., Johnson, B., Sulentic, C. E. W.: TCDD-induced activation of the human IgH hs1,2 enhancer is not altered by mutation of transcription factor binding sites within the polymorphic region. Toxicological Sciences, the Toxicologist, 138:2021, 2014.

Ellis, D., Sulentic, C. E. W., Hussain, S.: Low-level exposure to silver nanoparticles-induced hypertrophy, multinucleation, and senescence in lung epithelial cells. Toxicological Sciences, the Toxicologist, 138:1965, 2014.

Sulentic, C. E. W. and Fox, D. A.: Training and Continuing Education for the "Total Toxicologist": How Do We Optimize Training and Educational Opportunities for Different Job Sectors? Toxicological Sciences, the Toxicologist, 138:1767, 2014.

Significant presentations [e.g., to academic societies, medical schools and national professional societies.]

Dr. Norma Adragna

A Putative Model for K-Cl Cotransporter 3 (KCC3) in the control of K and Cell Volume Homeostasis in Double-Alanine Mutant HEK 293 Cells. Norma C. Adragna, Nagendra Ravilla, Kristopher Kahle and Peter Lauf, 49th Annual Lake Cumberland Biological Transport Group, Lake Cumberland, Jamestown, KY, June 8-11, 2014.

Apelin Regulation of K-Cl Cotransport is Dependent on Expected and Unexpected Physiological Factors, Norma Adragna, Neelima Sharma and Peter Lauf. 49th Annual Lake Cumberland Biological Transport Group, Lake Cumberland, Jamestown, KY, June 8-11, 2014.

Canonical Bcl-2 Motifs Confer Sensor Role upon Na/K ATPase (NKA) for Bcl-2 Signaling of Cellular Functional State: Current Progress. Peter K Lauf, Tariq Alqahtani, Karin Flues and Norma C. Adragna. 49th Annual Lake Cumberland Biological Transport Group, Lake Cumberland, Jamestown, KY, June 8-11, 2014.

Canonical Bcl-2 motifs sensor role upon Na/K ATPase for Bcl-2 signaling of cellular functional state. Peter K Lauf, Judith Heiny, Jarek Meller, Gerald M Alter, Ioana P Sizemore, and Norma C Adragna Lecture, September 4,

2014. ASBMB Special and 14th International Symposium on "Na,K-ATPases and Related Transport ATPases: Structure, Mechanism, Cell Biology, Health and Disease. Luntern, The Netherlands, August 30-September 5, 2014.

Interaction between NKA and Na/K ATPase and Bcl-2 Proteins BclXL and BAK. Tariq Alqahtani, Karin Flues, Jaroslaw Meller, Norma C Adragna, and Peter K Lauf, 29th Meeting of the Ohio Physiological Society, Miami University, Oxford, OH, October 17-18, 2014.

Interaction between NKA and Na/K ATPase and Bcl-2 Proteins BclXL and BAK. Tariq Alqahtani, Karin Flues, Jaroslaw Meller, Norma C Adragna, and Peter K Lauf, Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, OH October 16, 2014.

Dr. Ji Bihl

Chen J, Xiao X, Chen S, Zhang C, Wang J, Chen Y, "Ang-(1-7) counteracts Ang II in regulating cerebral endothelial cell function and gene expression," ATVB annual meeting in 2014, Toronto, Ontario, Canada, 2014

Bihl J, Xiao X, Chen S, Zhang C, Wang J, Zhao B, Chen Y, "Chronic infusion of angiotensin-(1-7) alleviates cerebral hemorrhagic injury compromised by angiotensin II," High Blood Pressure Research Scientific Sessions, San Francisco CA, 2014

Dr. Yanfang Chen

"Ang-(1-7) counteracts Ang II in regulating cerebral endothelial cell function and gene expression," ATVB annual meeting, May 2014, Toronto, Ontario, Canada,

"New Insights on Extracellular Microvesicle Study", invited lecture in the 16th South China International Cardiology Congress, April 10, 2014, Guangzhou, China

"Extracellular microvesicles: translational study in vascular disease", Oct 16, 2014 in College of Pharmacy and Pharmaceutical Sciences, the University of Toledo, Toledo, Ohio

"Extracellular microvesicles: translational study in cerebrovascular disease", Feb 19, 2014 in Department of Pharmacology and Toxicology, Wright State University, Dayton, Ohio

Dr. David Cool

Grand Rounds OB/GYN Miami Valley Hospital - Translational Research- September 10, 2014

Dr. Mauricio Di Fulvio

CF, CFRD, chloride channels, transporters and insulin secretion. Department of Genetics and Genome Sciences, Case Western Reserve University, October 31, 2014

Dr. Khalid Elased

Invited Speaker to the 3rd International Symposium of the Renin Angiotensin System (RAS): Understanding systemic, Intracellular and Tissue RAS. School of Medicine, Universidade Federal de Sao Paulo, Brazil.

Poster presentations at the American Heart Association Annual Meeting.

Poster presentations at the American Diabetes Association Annual Meeting.

Poster presentations at the American Nephrology Association Annual Meeting.

Dr. Nadja Grobe

Annual Meeting of the Ohio Physiological Society, Oxford, OH

ISH New Investigator Symposium on Hypertension and Cardiovascular Disease, San Francisco, CA

III International Symposium of the Renin Angiotensin System, São Paulo, Brazil

Ohio Miami Valley Chapter of the Soc. for Neuroscience Prof. Dev. Workshop, Dayton, OH

Angiotensin Gordon Research Conference, Lucca, Italy, 2014

Dr. Saber Hussain

Molecular Basis of Environmental Stress in Cells: Presented at the OSD sponsored Indo-Us Workshops on Directed Energy and Cognitive Science/Autonomy, Sept 2-12, 2014 in New Delhi, India.

Nanotoxicity: What Are the Best Approaches for Characterization, Dosimetry, and Cell Models? Presented at: International Symposium for Nanosafety: Social, Environmental & Health Impact, November 16-18, 2014 Singapore.

Evaluation of Nanomaterials Toxicity: Linking Physical Parameters to Bioeffects: Presented at: 1st Latin-American Congress of Clinical and Laboratorial Toxicology -TOXI-LATIN, April 27-30th, 2014 Porto Alegre/RS, Brazil.

Dr. Jim Lucot

Invited lecture Lucot, J.B. Serotonergic mechanisms of neuroprotection from sarin-status epilepticus TOXCON 2014 Stara Lesna, Slovakia.

Invited lecture Lucot, J.B. The stimulation of 5-HT1A and 5-HT1D receptors inhibits the final common pathway for emesis. Slovak Academy of Sciences, Bratislava, SK, 2014

BioStar student presentations: WSU student research celebration, Ohio first scholar showcase, MV Neuroscience, OVSOT, 2014.

WSU Pharm/Tox seminar. Development of a broad spectrum antiemetic. 2014

Dr. Richard Simman

"Atypical Wounds." Advancing the Standards in Wound and Hyperbaric Medicine, University of Toledo. Nov 7, 2014.

"Management of Pressure Ulcers" and "Advanced Therapies in Wound Healing." Back to Basics Course, University of Toledo. Nov 8, 2014

"Advanced Wound Healing Techniques." ACCWS Regional meeting. Beavercreek, Ohio. October 7, 2014.

"Cultured Epithelial Autografts, Culture Techniques and Clinical Applications." ACCWS Regional meeting. Lima, Ohio. June 25, 2014.

"Wound Credentialing: Cutting through the Alphabet Soup." The Symposium on Advanced Wound Care (wound healing society) Fall 2014. Las Vegas, Nevada. October 18, 2014.

"Advanced Therapies", "Atypical Wounds", "Management of Pressure Wounds", and "Patients Mobility". Kindred and ACCWS Wound Care Conference. Dallas, Texas August 7, 2014.

Dr. Courtney Sulentic

Oral Presentations

Transcriptional Regulation of the Immunoglobulin Heavy Chain Gene: A Novel Target of Exogenous Chemicals? Department of Microbiology and Immunology, Montana State University, Bozeman, MT 2014.

Transcriptional Regulation of the Immunoglobulin Heavy Chain Gene: A Novel Target of Exogenous Chemicals? Department of Pharmacology & Toxicology, Wright State University, Dayton, OH 2014.

A Genetic Polymorphism + Chemical Exposure = Autoimmunity?? An Update. Kettering College of Medical Arts, Kettering, OH 2014.

Workshop Chair and Organizer

Training and Continuing Education for the Total Toxicologist: How do we optimize training and educational opportunities for different job sectors? Society of Toxicology, Phoenix AZ, 2014.

Student Oral Presentations (*trainee presenter from Sulentic lab)

*Snyder, A., Ochs, S., Johnson, B., Sulentic, C. E. W.: TCDD-induced activation of the human IgH hs1,2 enhancer is partially regulated by nuclear factor 1. Ohio Valley Society of Toxicology, Wright State University, Dayton, OH, 2014.

*Kashgari, B., Sulentic, C. E. W.: Determining the role of AhR in Ig-expression and class switch recombination. Biomedical Sciences PhD Program Research Retreat, Wright State University, Dayton, OH, 2014.

*Burra, N. L. K., Johnson, B., Sulentic, C. E. W.: Effect of TCDD on immunoglobulin class switching in human B cells. Biomedical Sciences PhD Program Research Retreat, Wright State University, Dayton, OH, 2014.

*Snyder, A., Ochs, S., Johnson, B., Sulentic, C. E. W.: TCDD-induced activation of the human IgH hs1,2 enhancer is not altered by mutation of transcription factor binding sites within the polymorphic region. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2014.

*Freiwan, A., Johnson, B., Sulentic, C. E. W.: Elucidating the role of the polymorphic human hs1,2 enhancer in the effects of TCDD. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2014.

*Kashgari, B., Sulentic, C. E. W.: The mechanism of aryl hydrocarbon receptor in the human immunoglobulin heavy chain. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2014.

*Burra, N. L. K., Johnson, B., Sulentic, C. E. W.: Effect of TCDD on immunoglobulin class switching. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2014.

Poster Presentations

*Freiwan, A. K., Johnson, B., Sulentic, C. E. W.: Elucidating the role of the polymorphic human hs1,2 enhancer in the effects of TCDD. Toxicological Sciences, the Toxicologist, 138:2022, 2014.

*Snyder, A., Ochs, S., Johnson, B., Sulentic, C. E. W.: TCDD-induced activation of the human IgH hs1,2 enhancer is not altered by mutation of transcription factor binding sites within the polymorphic region. Toxicological Sciences, the Toxicologist, 138:2021, 2014.

*Ellis, D., Sulentic, C. E. W., Hussain, S.: Low-level exposure to silver nanoparticles-induced hypertrophy, multinucleation, and senescence in lung epithelial cells. Toxicological Sciences, the Toxicologist, 138:1965, 2014.

*Snyder, A., Ochs, S., Johnson, B., Sulentic, C. E. W.: TCDD-induced activation of the human IgH hs1,2 enhancer is partially regulated by nuclear factor 1. Central Research Forum, Wright State University, Dayton, OH, 2014.

*Kashgari, B., Sulentic, C. E. W.: Determining the role of AhR in Ig-expression and class switch recombination. Central Research Forum, Wright State University, Dayton, OH, 2014.

*Burra, N. L. K., Johnson, B., Sulentic, C. E. W.: Effect of TCDD on immunoglobulin expression in human B cells. Central Research Forum, Wright State University, Dayton, OH, 2014.

*Alfaheeda, Z., Wourms, M., Burra, N. L. K., Sulentic, C. E. W.: Chemical Regulators of the 3'IghRR through AhR and non-AhR pathway. Central Research Forum, Wright State University, Dayton, OH, 2014.

*Kashgari, B., Sulentic, C. E. W.: Determining the role of AhR in Ig-expression and class switch recombination. Ohio Valley Society of Toxicology, Wright State University, Dayton, OH, 2014.

*Burra, N. L. K., Johnson, B., Sulentic, C. E. W.: Effect of TCDD on immunoglobulin expression in human B cells. Ohio Valley Society of Toxicology, Wright State University, Dayton, OH, 2014.

*Snyder, A., Ochs, S., Johnson, B., Sulentic, C. E. W.: TCDD-induced activation of the human immunoglobulin hs1,2 enhancer is not altered by mutation of transcription factor binding sites within the polymorphic region. Biomedical Sciences PhD Program Research Retreat, Wright State University, Dayton, OH, 2014.

Consultantships [sponsor activity]

Dr. David Cool

NIH Arlian (PI) Funded Consultant, 2011-2014, Scabies: Biology, Culture, Host Specificity and Antigens

NSF Hennessy (PI) Funded Consultant, 2011-2014, Mechanisms mediating social buffering of hypothalamic-pituitary-adrenal responses

Other recognition [e.g. editorships, reviewer awards]

Dr. Norma Adragna

Editorial Board: Cellular Physiology & Biochemistry. Karger. Switzerland.

Dr. Alvarez-Leefmans

Associate Editor. Frontiers in Membrane Physiology and Biophysics. Frontiers Journals. Science Park PSE-D, CH – 1015 Lausanne, Switzerland. Frontiers Journals are part of Nature Publishing Group.

http://www.frontiersin.org/news/Nature_Publishing_Group_and_Frontiers_form_alliance_to_further_open_science/266

Dr. Ji Bihl

Reviewer for journals and book chapters: Reviewer for journals: Cellular and Molecular Neurobiology (7), Toxicology Science (2), Oxidative medicine and cellular longevity (1)

Reviewer for book chapters: Methods in Pharmacology and Toxicology

Dr. Yanfang Chen

Guest Editor, Oxidative Medicine and Cellular Longevity
Editorial board: American Journal of Cardiovascular Disease
Editorial board: CNS: Neurosciences and Therapeutics
Editorial board: World Journal of Hypertension

Dr. David Cool

2013- present Editorial Board Journal of Environmental Immunology and Toxicology
2014- present Editorial Board Interdisciplinary Toxicology
2014 NIH Small Business Endocrinology, Metabolism, Nutrition, and Reproductive Sciences special emphasis panel (ZRG1 EMNR-S 10) Study Section Reviewer (11/06/2014).

2014 NIH CounterAct Study Section Member Molecular, Cellular & Developmental Neurosciences Integrated Review Group. R21 Study Section Reviewer (07/11/2014).

2014 NIH CounterAct Study Section Member Molecular, Cellular & Developmental Neurosciences Integrated Review Group. U01 Study Section Reviewer (03/28/2014).

Dr. Mauricio Di Fulvio

Served twice as a grant reviewer for the American Heart Association (AHA) and once for the National Agency for the Promotion of Science and Technology (Argentina)

Dr. Khalid Elased

Member of the Editorial Board of the Journal of Diabetes Research
Member of the Editorial Board of World Journal of Hypertension (WJH).
Member of the Editorial Board of World Journal of Cardiology (WJC).
Member of the Editorial Board of SAJ Pharmacy & Pharmacology Awards: American Heart Association Award for Research Excellence in recognition of outstanding achievement in heart research, Dayton, OH.

Dr. Nadja Grobe

Reviewer:

- Plos One
- Diabetes Research
- Hypertension
- International Journal of Biological Macromolecules
- Neurochemical Research
- Process Biochemistry

Awards:

Pan-American Congress Travel Award
American Heart Assoc. Excellence in Research Award

Dr. Saber Hussain

Editorial Positions

- Toxicological Sciences (ASSOCIATE EDITOR)

Professional Memberships and Affiliations

- Italian Society of Nanotoxicology
- Society of Toxicology
- Association of Government Toxicologists

Reviewer For Journals

- 2007-present Reviewer, Toxicological Sciences
- 2005-present Reviewer, Toxicology Letters
- 2007-present Reviewer, Toxicology In Vitro
- 2007-present Reviewer, Journal of Toxicology and Environmental Health
- 2007-present Reviewer, International Journal of Nanomedicine
- 2007-present Reviewer, International Journal of Toxicology
- 2007-present Reviewer, Food Chemical Toxicology
- 2007-present Reviewer, International Journal of Nanomedicine
- 2008-present Reviewer, Langmuir
- 2008-present Reviewer, Nature Nanotechnology
- 2006-present Reviewer, Carbon
- 2008-present Reviewer, Journal of the American Chemical Society
- 2008-present Reviewer, Advanced Materials, Small
- 2010-present Reviewer, PNAS

Dr. Jim Lucot

Reviewer, Experimental Brain Research, Neuropharmacology

Dr. Richard Simman

National/International President & Chair, American Board of Wound Medicine and Surgery November 2011 – present

Editor in Chief, Journal of the American College of Certified Wound Specialists. November 2009 – present

Member, Editorial Board, Annals of Plastic Surgery. April 2009 – present

Dr. Courtney Sulentic

Research highlighted in “Next Generation of Immunotoxicologists”, Japan Society of Toxicology, Kobe, Japan
Presentation given in Japan by Dr. Mitchell Cohen, New York University School of Medicine

Student awards generated from research in my laboratory

Kaulini Burra – Dept. of Pharmacology & Toxicology Graduate Student Scholarship

Andrew Snyder – Travel awards from Society of Toxicology, BMS Ph.D. program, and Dept. of Pharmacology & Toxicology; selected as a platform presentation finalist, Ohio Valley Society of Toxicology

6

Summary of Service Activities

Student advising

Dr. Adragna

Neelima Sharma, BMS student, 2009-2014, graduated, June 2014

Jasser Alzhrani, MS student, 2013-present

Kranthi K. Chougani, MS student, 2014-present

Praveen Alla, MS student, 2014-present

Silpika Kovvali, MS student, 2014-present.

Chandra Maharjan, MS Student, 2014-present

Ravina Ashteputre, MS Student, 2014-present.

Wedad Saqar, MS student, graduated 2014

Tariq Alqahtani, MS student, graduated 2015

Mohamed Almiahou, MS committee member, graduated 2014

Mohammed Almutairi, MS committee member, graduated 2014

Shams Kursan, MS committee member, graduated 2014
Hala Ammar, MS committee member, graduated 2014
Langni Liu, MS committee member, 2014-present.
Nobil Murghum, P&T MS
Muna Osman, P&T MS
Mohamad Zweitt, P&T MS

Dr. Alvarez-Leefmans

Jeannine Crum, Year 7 BMS PhD student
Pankay Patyal, MS thesis
Andy Koester, BMS PhD thesis advisory, graduated 2014
Adam Dearthoff, BMS PhD thesis advisory, expected graduation 2015
David Dixon, M&I MS student, thesis advisory
Hind Obaid Albeshri, M&I MS student, thesis advisory
David Cha, Undergrad Honors student

Dr. Ji Bihl

Hala Mustafa Ammar, advising (mentor: Y. Chen)
Mahesh Kodali, advising (mentor: D. Cool)
Ashvin Iyer, advising, (mentor: D. Cool)
Abdelfatah Abou Issa, advising (mentor: R. Simman)
Langni Liu, advising (mentor: Y. Chen)

Dr. Yanfang Chen

Langni Liu, P&T MS student
Nomula Mounica, MS student
Deekshith Vanamala, P&T MS student
Jinju Wang, BMS PhD student (formally P&T student)
Xiang Xiao, BMS PhD student (formally P&T student)
Ji Chen, MD, PhD, post-doctoral
Chuanfang Chen, MD visiting scholar

Dr. David Cool

Ming Zhou, MD, OB/GYN Miami Valley Resident Research Fellow
Jason Retzke, MD, OB/GYN Miami Valley Resident Research Fellow
Kari Rudinsky, MD, Fellow
Ziad Hadar, MD, Fellow
Amol Molshe, MD Fellow
Kathryn Ibbotson, MS advisor, expected graduation 2015
Hala Ammar, MS committee member, graduated 2014
Ekta Shah, MS advisor, graduated 2014
Mohammed Alturi, MS committee member, graduated 2014
Shamili Samohi, MS Advisor, expected graduation 2015
Ashvin Iyer, MS Advisor, expected graduation 2015
Mahesh Kodali, MS Advisor, expected graduation 2015
Venus Ebrahimian, MS Advisor, thesis complete 2014
Mackenzie Newman, MS Advisor, thesis complete 2014
Richard Salisbury, ES PhD committee member, graduated 2014
Ryan Yoakum, BMS PhD committee member, expected graduation 2015
David Ellis, BMS PhD committee member, expected graduation 2015
Eric Romer, BMS PhD committee member, graduated 2014
Dawahl Oswal, BMS PhD committee member, graduated 2014
Neelima Sharma BMS PhD committee member, graduated 2014
Prakash Arumagam, BMS PhD Co-Advisor, expected graduation 2015
Jinju Wang, BMS PhD committee member, expected graduation 2016
Anthony Politio, BMS PhD Co-Advisor, expected graduation 2015
Brian Stogsdill, BMS PhD committee member, expected graduation 2016

Dr. Mauricio Di Fulvio

Mohamed Almiahou, MS Advisor, graduated 2014
Mohammed Almutairi, MS Advisor, graduated 2014
Shams Kursan, MS Advisor, graduated 2014

Nada Kashkari, MS thesis committee
Andrew Snyder, BMS MS thesis committee
Kavia Annu, MS thesis committee
Kaulini Burra, MS thesis committee
Eduardo Diaz, USA-Brazil Consortium

Dr. Khalid Elased

Sridevi Gutta, MS Advisor, graduated 2014
Laale Alawi, MS Advisor, expected graduation 2015
Sana Emberesh, MS Advisor, graduated 2014
Nada Kashkari, MS Advisor, graduated 2014
Brenda Owuor, MS Advisor, expected graduation 2015
Dhawal Oswald, BMS PhD thesis advisory, graduated 2014
Lesan Mattis, Grad Prep
Kamilla Silva, USA-Brazil Consortium
Renata Farah, USA-Brazil Consortium
Aline Dalmazo, USA-Brazil Consortium

Dr. Nadja Grobe

Kavya Annu, MS thesis supervision
Shamili Sammohi, MS thesis supervision
Tariq Alqahtani, MS thesis supervision
Laala Alawi, MS thesis supervision
Sana Emberesh, MS thesis supervision
Sridevi Gutta, MS thesis supervision

Dr. Saber Hussain

David Ellis, BMS PhD thesis supervision
Anthony Polito, BMS PhD thesis supervision
Rose Cooper, MS thesis
Monita Sharma, BMS MS thesis advisory, graduated 2014
Eric Romer, BMS PhD thesis advisory, graduated 2014

Dr. Lucot

Kavya Annu, MS thesis advisory
Marie Heis, BioStar
Te'Karia Hurley, STREAMS
Christoph Roaurk PhD committee, advising
Ekta Shah, MS student committee, advising
Amber Braddock, MS student committee, advising

Terry Oroszi

Leadership advising, P&T MS students:

Amruta Pradhan
Cierra Bell,
Hala Alsheikh
Hector Nava
Joshua Buck
Majdi Abdulmaula
Muna Osman
Nusieba Ibrahim
Abdulmagid Sherif
Ahmed Alsagri
Bader Althuwaini
Bala Karri
Daniel Baker
Faraq Mosa
Hassan Alhejaili
Jawaher Aldurayhim
Manar Hajjan
Nagasudheer Balusu
Nnaemeka Obianagha

Sara Younes
Saud Thabet
Siham Abdulla
Yetunde Fajulugbe
Yousef Aljohani
Cathy Graham

Dr. Richard Simman

Adbelfatah Issa, MS Advisor
Walid Saad, MS Advisor
Amanda Gedeit, Graduate Medical Resident
Donald Tait, Graduate Medical Resident
Nick Hess, Graduate Medical Resident
Nick Gould, Graduate Medical Resident
Amanda Gedeit, Graduate Medical Resident
Donald Tait, Graduate Medical Resident
Nick Hess, Graduate Medical Resident
Nick Gould, Graduate Medical Resident

Dr. Courtney Sulentic

Andrew Snyder, BMS PhD Advisor
David Ellis, BMS PhD Advisor
Richard Salisbury, ES PhD Advisor
Zahra Alfaheeda, M&I MS research trainee
Naga Burra, MS Advisor
Basam Kashgari M&I MS Advisor
Abdulla Freiwan M&I MS Advisor, graduated 2014

Dr. Sulentic

Brooke Johnson, Lab Assistant
Aubrey Morris, Lab Assistant
Graduate Advisory Committee:
Kevin Novak BMS PhD
Tu Thien Danh, BMS PhD
Sumeet Poudel, BMS PhD
Anthony Polito, BMS PhD
Todd Lewis, BMS PhD
Joanna Barthelemy, BMS PhD
Shannon Romer, BMS PhD
Adam Deardorff, BMS PhD
Dima Sbenaty, M&I MS
Kelley Williams M&I MS
Bradley Gregg, M&I MS
Ekta Shah, MS, graduated 2014
Rick Salisbury, ES, PhD student, graduated 2014
Andrew Synder, BMS, PhD student
Kaulini Burra, P&T MS student
Abdulla Freiwan, M&I, MS student
Bassam Kashgari, M&I MS student
Zahra Alfaheeda, M&I MS student

Committee membership/officer [indicate if committee chair]

Wright State University Boonshoft School of Medicine [or college name]

Dr. Norma Adragna

Nominating Committee, BSOM Chair
Chair, Pharmacology & Toxicology Scholarships Committee
Morris Symposium, organizing committee member, 2013-2014
Chair, Ad hoc space committee, 2014-2015
Interviewing of most chair candidates for department of BSOM

Dr. F.J. Alvarez-Leefmans

Member of the Pharmacology & Toxicology Faculty Affairs and Development Committee

Dr. Yanfang Chen

Research Committee, Chair
Curriculum Committee

Dr. David Cool

Pediatric Chair Search Committee Member
Research Challenge-Seed Grant Review Committee, Proteomics

Dr. Mauricio Di Fulvio

Member of the Pharmacology & Toxicology Faculty Affairs and Development Committee
Member of the Pharmacology & Toxicology Scholarship Committee

Dr. Khalid Elased

Member, Executive Leadership Team, Dayton Heart Ball, American Heart Association

Dr. Nadja Grobe

Member, Executive Leadership Team, Dayton Heart Ball, American Heart Association
Member, Fundraising and Bylaws Committees, Women in Science Giving Circle, WSU
Facilitator, Inclusion Training of Search Committees, WSU
Organizing Committee, Professional Development Workshop, WSU

Dr. Jim Lucot

Pharmacology & Toxicology Faculty Affairs and Development Committee

Terry Oroszi

Continuing Medical Education certificate – 8 certificates in 2014 (23 to date)
Pharmacology & Toxicology Admissions Committee
Pharmacology & Toxicology Advisory Committee
Pharmacology & Toxicology Curriculum Committee
Pharmacology & Toxicology Scholarship Committee

Dr. Courtney Sulentic

Research Committee, elected member, BSOM, 2014-2016
Faculty Curriculum Committee, BSOM, 2013-2016
Curriculum Development, Foundations of Clinical Medicine Subcommittee
Executive Committee, elected member, BSOM, 2014-2015
Nominating Committee, BSOM, 2012-2014
Pathobiology and Therapeutics Steering Committee, BSOM
Principles of Disease Steering Committee, BSOM
Seminar Series for Pharmacology & Toxicology, Director
Pharmacology & Toxicology Faculty Affairs and Development Committee
Neuroimmunology Research Group, member
Medical Student Research Symposium Poster Judge

Wright State University

Dr. Ji Bihl

Secretary of WSU Post-doctoral Association

Dr. David Cool

Faculty Senate Information Technology Committee
Graduate Council

Dr. Jim Lucot

Campus Woods Committee

Terry Oroszi

Faculty Senate Ad-hoc Student Success Committee
EMDP Advisory Board, Emergency Management/Disaster Preparedness MS degree program, Co-Chair

Dr. Courtney Sulentic

Women's Peer Mentoring Group
Training Grant Planning Committee
BMS Admissions Committee, 2013-2014
Core Curriculum Committee, BMS PhD program, elected member, 2012-2014
Radiation Safety Committee, 2005-present, CHAIR, 2013-present
Sigma Xi President, Wright State University Chapter
BMS Research Retreat Career Panel Organizer and Moderator

Wright State Physicians

Hospital or affiliated institution [name]

Dr. David Cool

MVH Resident Research Day-OB/GYN, Judge

Dr. Khalid Elased

Registered and licensed as a pharmacist in the state of Ohio

State

Dr. Courtney Sulentic

K-12 Outreach: Forensic DNA Analysis Science Experiment and Presentation, Montessori Center of South Dayton

National

Dr. Norma Adragna

49th Annual Lake Cumberland Biological Transport Group, Elected Chair and Meeting Organizer, 2013-2014.

Chair, Lake Cumberland Biological Transport Group, 2013-2014

Chair Emeritus, Lake Cumberland Biological Transport Group, 2014-2015

Dr. Ji Chen

National Post-doctoral Association for the Workshops & Poster sessions.

Dr. Yanfang Chen

Annual Scientific Conference of American Heart Association, Abstract Grader
Division of Materia Medica & Pharmacology, National Natural Science Foundation of China (NSFC), Oversea Reviewer

Dr. Mauricio Di Fulvio

Molecular and Cellular Endocrinology, advisory committee
Membrane Transporters and Receptors – National Agency for the Promotion of Science and Technology, Buenos Aires, Argentina, advisory committee
American Heart Association, Basic cell genetics and epigenetics 3 Peer Review Study Group

Dr. Khalid Elased

AHA High Blood Pressure Council Conference Review committee
Appointed delegate of WSU BSoM to the United States Pharmacopeia (USP) Convention

Dr. Nadja Grobe

Co-chair, Meetings Committee, National Postdoctoral Association
Chair, Meeting Travel Awards Subcommittee, National Postdoctoral Association
Member, Meeting Fundraising Subcommittee, National Postdoctoral Association
Member, Early Career Committee, Council on the Kidney in Cardiovascular Disease, AHA

Dr. Richard Simman

President & Chair, American Board of Wound Medicine and Surgery, 2011-present
Editor & Chief, Journal of the American College of Certified Wound Specialists, 2009-present
Member, Editorial Board, Annals of Plastic Surgery, 2009-present

Dr. Courtney Sulentic

2014 Ohio Valley SOT Regional Meeting Organizer
Undergraduate Program Strategy Group, SOT
Mentor Match program organizer and facilitator, SOT
Invited Expert, Colgate-Palmolive Luncheon, SOT Annual Meeting
Poster Judge, Ohio Valley SOT
Ad-hoc reviewer for several journals, reviewed a grant for the Swiss National Science Foundation

Other

Dr. Norma Adragna

Member of 10 Scientific Societies
Reviewer of > 30 Scientific Journals

Dr. Ji Bihl

Pharmacology & Toxicology Master's Program Admission Committee

Dr. Yanfang Chen

Pharmacology & Toxicology Master's Program Admission Committee

Dr. Mauricio Di Fulvio

Student advising: I have been advising, teaching, guiding and directly performing experiments for and with students from different laboratories of the Department of Pharmacology and Toxicology and other departments as well. These experiments are related to molecular techniques such as PCR, RT-PCR, cloning, sub-cloning, nucleic acid purification, sequencing and cell culture for transfection of plasmids and immunohistochemistry. I have also been directly teaching them the use of bioinformatic tools for restriction enzyme digestion analysis, DNA primer design, nucleotide alignments and searching in molecular databases (NCBI, GenBank, etc).

Dr. Khalid Elased

American Diabetic Association (ADA)
Fellow of the American Heart Association (AHA)
European Association for the Study of Diabetes (EASD)
American Society for Pharmacology and Experimental Therapeutics (ASPET)
Member of the American College of Clinical Pharmacy (ACCP)
Member of the American Physiological Society (ASP)
Member of the American Society of Nephrology (ASN)
Referee of scientific journals:

Member of the Editorial Board:
Journal of Diabetes Research
Journal of Nephrology Research
World Journal of Hypertension (WJH)
World Journal of Cardiology (WJC)
SAJ Pharmacy & Pharmacology

Reviewer of the following Journals:
Advances in Critical Care
American Journal of Physiology: Heart and Circulatory Physiology
American Journal of Physiology: Renal Physiology

BMC Nephrology
 Brazilian Journal of Medical and Biological Research
 Cellular & Molecular Biology Letters; Circulation
 Circulation Research; Clinical and Experimental Hypertension
 Clinical and Experimental Pharmacology & Physiology; Endocrine
 Experimental Diabetes Research; Experimental Physiology
 Hypertension Research; International Journal of Biological Macromolecules
 International Journal of Hypertension; International Journal of Nephrology and Renovascular Disease
 Journal of Diabetes Research
 Journal of Proteome Research; Journal of the American Society of Hypertension
 Kidney and Blood Pressure Research
 Life Sciences
 Metabolism- Clinical and Experimental
 Microbial Pathogenesis
 Molecular Psychiatry
 Nephron Physiology
 PLoS One
 Regulatory Peptides

Research Peer Review:

National American Heart Association (AHA) Cardiac Biology Study Group,
 NIH/NIDDK: Special Emphasis Panel/Scientific Review Group "Biomarkers for Diabetes, Kidney Diseases and Urology (R01)-PAR -13-228".

Dr. Nadja Grobe

President of WSU's Postdoctoral Association

Dr. Saber Hussain

Editorial Positions:

Toxicological Sciences (ASSOCIATE EDITOR)
 Professional Memberships and Affiliations
 Italian Society of Nanotoxicology
 Society of Toxicology
 Association of Government Toxicologists

Reviewer for Journals:

2007-present	Reviewer, Toxicological Sciences
2005-present	Reviewer, Toxicology Letters
2007-present	Reviewer, Toxicology In Vitro
2007-present	Reviewer, Journal of Toxicology and Environmental Health
2007-present	Reviewer, International Journal of Nanomedicine
2007-present	Reviewer, International Journal of Toxicology
2007-present	Reviewer, Food Chemical Toxicology
2007-present	Reviewer, International Journal of Nanomedicine
2008-present	Reviewer, Langmuir
2008-present	Reviewer, Nature Nanotechnology
2006-present	Reviewer, Carbon
2008-present	Reviewer, Journal of the American Chemical Society
2008-present	Reviewer, Advanced Materials, Small
2010-present	Reviewer, PNAS

Defines, leads, and manages multiple branch Nanotoxicology and Nanobioeffects technical activities, programs and personnel in an independent manner.

Supervise and manage 15-member team--DoD pioneers in nanotoxicology (noted through publications) and research

Planning to submit Grants in collaboration with WSU faculty- with NIH, DoD and NSF

Long term plan to assist Pharm/tox to establish area of expertise as center of excellence in nanobio/nanomedicine that provides great opportunities for students and young faculty.

Dr. Jim Lucot

Reviewer, Experimental Brain Research, Neuropharmacology

Terry Oroszi

Simman Wound Care Board of Directors, member

Strategic Planning 2014:

1. Rebranding of our Non-Thesis Master of Science (MS) Program: Leadership/Management/Administration MS Degree (DONE 2014)
2. Lab Management - already being taught by Dr. Cool.
3. Good Laboratory Practices - already being taught by adjunct Dr. Mumy.
4. Laboratory Safety. (Markopolous and EHS staff)
5. 2 Six Sigma classes (green and black belt with certifications)
6. PILOT Online classes: Three 5 week (15 week concentrated into 5 weeks) 3 credit hours each. The classes will provide background information for weak students to ensure they all join the program with the basic level of knowledge. (CREATED 2014)
 - a. Cell biology
 - b. Biochemistry
 - c. Pharmacology
7. Workshops: Teaching a day, few days, or weeks...depending on the technique. We have one on cell culture this semester, a weekend workshop for credit. Cell Culture workshops (DONE 2014)
8. Dual Degrees: MS/MD
9. Tutor Center: 2nd year students tutor first year students for small amount of \$, office rented in SOPP
10. ONLINE MS degree: 30+ credit hours of instruction already available online. (new online statistics class, new online journal club, several hybrid courses)
11. CBRN Defense Certificate program available all online (DONE 2014)
12. Social Media impact:
 - a. DEPT Facebook – doubled likes from 2013 (2.8K, BSOM 2.2K, BMS 102)
 - b. CBRN Facebook
 - c. CBRN Website
 - d. CBRN Twitter

Dr. Courtney Sulentic

Teaching Workshops attended:

A COSMIC Exploration in Teaching and Learning, Summer Academy (7.5 hours)

The INSPIRE Teacher Development Series, Case Inquiry Faculty 3-day workshop, Case Western Reserve

Getting Students Excited About Learning: Brain-based learning in the classroom

Exam MCQ Workshop

7

Patient Care Summary

[If applicable. Include number of ambulatory visits, hospitalizations, surgeries, new techniques or programs developed; new collaborations.]

Dr. Richard Simman

Hospital Privileges:

Kettering Medical Center

Sycamore Hospital

Good Samaritan Hospital

Good Samaritan North Health Center

LifeCare Hospital

Kindred Hospital

8

Honors and awards [Faculty or staff]

Dr. Courtney Sulentic

Student Awards generated from research in my laboratory

Kaulini Burra, Pharmacology & Toxicology Graduate Student Scholarship

Andrew Snyder, Travel awards from Society of Toxicology; Platform presentation finalist, Ohio Valley Society of Toxicology

9

Hosted events [CME, etc.]

10

Other information

[Other information that represents your department's contribution to the academic mission of the Boonshoft School of Medicine.]

Dr. David Cool

Pharmacology & Toxicology Master's Program policy document

Proteome Analysis Laboratory, Director

Am. Soc. For Pharmacology & Therapeutics (ASPET)

Association of Biomolecular Research Facilities (ABRF)

American Society of Mass Spectrometry

Collaborative Research:

Dr. John Bini & Dr. Steve Burdette, MVH, Dept. Surgery, Aerosolized Antibiotics in the Treatment of Ventilator Associated Pneumonia, 2014- present

Dr. Richard Simman, P&T Dept, Comparison of wound healing using OASIS and vacuum, 2014-present

Dr. Steve Lindheim, OB/GYN Female Reproductive Health Research- 2014 - present

Dr. Jerry Yaklic, OB/GYN Interstitial Cystitis, Endometriosis and Vulvodynia- Resident Research Projects- 2013- present

Dr. Gary Ventolini, OB/GYN Texas. Identifying Biomarkers of Vulvodynia.

Dr. Chad Reiter, WSRI Treatment of Sepsis with a novel haptoglobin biologic.

Dr. Ali Reiter, LEIDOS (SAIC) WSRI Physiological Expertise Assessment System (DARPA)

Dr Lucy Wrenshall- /Dr. John Miller (NCBP) Identification of multimers of IL2

Dr James Olson- (Emerg. Med) Identification of taurine transporter in brain swelling.

Dr Miryoung Lee- (Lifespan) Analysis of biomarkers of dieting

Dr Marge Morgan/Dr Larry Arlian- (Biology) House Dust Mite Proteins

Dr Greg Boivin- (LAR) Glycosylation of tendon proteins in diabetes

Dr Yanfang Chen- (P&T) Identification of proteins in microparticles

Dr Courtney Sulentic- (P&T) Identification of proteins associated with Ikb.

Dr Jason Retzke- (MVH-OB/GYN) Determination of lipid secretion in dexamethasone treated lung cells

Dr. Kari Rudinsky, M.D. (MVH-OB/GYN MFM Fellow) Pravastatin crossing the placental barrier.

Dr Larry Prochaska- (BMB) Lipid extraction from membrane proteins
Dr Jerry Alter- (BMB) Structural analysis of proteins by limited digestion.
Dr Peter Lauf- (Pathology & P&T) Analysis of protein interactions with PKC inhibitors
Dr Norma Adragna- (P&T) Analysis of jellyfish effects on skin cytokines.

Dr. Courtney Sulentic

Published (1) manuscript

(3) Manuscripts submitted

Goals for 2015: 5 published manuscripts, RO1 submitted

Collaborations with colleagues at WPAFB and WSU