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
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.
# Programs/Divisions

<table>
<thead>
<tr>
<th>Name of Division or Program</th>
<th>Director</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Biophysics</td>
<td>Norma Adragna, Ph.D.</td>
<td>2003-present</td>
</tr>
<tr>
<td>Proteome Analysis Laboratory</td>
<td>David Cool, Ph.D.</td>
<td>2004-present</td>
</tr>
<tr>
<td>Nanotoxicology Research</td>
<td>Saber Hussain, Ph.D.</td>
<td>2010-present</td>
</tr>
<tr>
<td>Therapeutics Curriculum</td>
<td>Mary Jo Trout, PharmD</td>
<td>2013-present</td>
</tr>
<tr>
<td>CBRN Certificate Program</td>
<td>Terry Oroszi, M.S.</td>
<td>2013-present</td>
</tr>
<tr>
<td>Master’s Program</td>
<td>Terry Oroszi, M.S.</td>
<td>2008-present</td>
</tr>
<tr>
<td>Training Program</td>
<td>Khalid Elased, PharmD, Ph.D.</td>
<td>2013-present</td>
</tr>
<tr>
<td>Training Program</td>
<td>Courtney Sulentic, Ph.D.</td>
<td>2013-present</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name and Academic Position</th>
<th>Clinical Interests</th>
<th>Research Interests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norma Adragna, Ph.D., Professor and Interim Chair</td>
<td>Cardiovascular, ion transport, cell signaling, cellular physiology, membrane transport, cancer biology</td>
<td></td>
</tr>
<tr>
<td>Francisco Javier Alvarez-Leefmans, M.D., Ph.D., Professor</td>
<td>Neuroscience, molecular physiology &amp; pharmacology, clinical neurology</td>
<td></td>
</tr>
<tr>
<td>Ji Bihl, Ph.D., Research Assistant Professor</td>
<td>Cerebrovascular diseases and diabetes, specifically in developing novel predictive and therapeutic avenues for hemorrhagic stroke and vascular complications of diabetes.</td>
<td></td>
</tr>
<tr>
<td>Yanfang Chen, M.D., Ph.D., Associate Professor</td>
<td>Cardiovascular disease, cerebrovascular complications</td>
<td></td>
</tr>
<tr>
<td>Name and Academic Position</td>
<td>Clinical Interests</td>
<td>Research Interests</td>
</tr>
<tr>
<td>--------------------------------------------</td>
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<td>------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>David Cool, Ph.D., Professor</td>
<td>OBGYN Pre-eclampsia, Interstitial cystitis</td>
<td>Translational research, snake venom</td>
</tr>
<tr>
<td>Mauricio Di Fulvio, Ph.D., Assistant Professor</td>
<td>Interstitial cystitis</td>
<td>Diabetes</td>
</tr>
<tr>
<td>Khalid Elased, PharmD., Ph.D., Associate Professor</td>
<td>Diabetes, cardiovascular</td>
<td></td>
</tr>
<tr>
<td>Nadja Grobe, Ph.D., Research Assistant, Professor</td>
<td>Diabetes, cardiovascular</td>
<td></td>
</tr>
<tr>
<td>Saber Hussain, Ph.D., Professor</td>
<td>Nanoparticles</td>
<td></td>
</tr>
<tr>
<td>Tom Lockwood, Ph.D., Associate Professor</td>
<td>Nature invented lysosomes in order to separate the environment of metals, redox and protons from other cell compartments.</td>
<td></td>
</tr>
<tr>
<td>Jim Lucot, Ph.D., Professor</td>
<td>Neurobehavioral/neurochemicals, diabetes</td>
<td></td>
</tr>
<tr>
<td>Terry Oroszi, M.S., Research Instructor, Graduate Program Director, CBRN Defense Program Director, Co-chair EMDP Advisory Board</td>
<td>Translational medicine</td>
<td>Group decision making and meeting behaviors</td>
</tr>
<tr>
<td>Richard Simman, M.D., Associate Professor</td>
<td>Wound Care, Plastic Surgery</td>
<td>Wound care treatment</td>
</tr>
<tr>
<td>Courtney Sulentic, Ph.D., Associate Professor</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>Mary Jo Trout, Pharm.D., Assistant Professor</td>
<td>Medical training, Therapeutics curriculum</td>
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</tbody>
</table>

### 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 Almiahoub, 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 Stogdill, 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 Almiahoub, 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  

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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 Adraga
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**  
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


**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**


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


**Dr. Yanfang Chen**


**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**


Dr. Nadja Grobe

Dr. Saber Hussain


Dr. Jim Lucot


Dr. Richard Simman

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


Dr. Courtney Sulentic

Books, chapters, reviews

Dr. Ji Bihl

Dr. Mauricio Di Fulvio

Published abstracts

Dr. Norma Adragna

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.


Interaction between NKA and Na/K ATPase and Bcl-2 Proteins BclXL and BAK. Tariq Alqahtani, Karen 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**


**Dr. Ji Bihl**


**Dr. David Cool**


Batchelor, 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**


**Dr. Khalid Elased**


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

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. 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 Boonshoft School of Medicine, Sixth Annual Medical Student Research Symposium. Dayton, OH, USA, April 10, 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.


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

Dr. Nadja Grobe

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, Kashkari N, Chodavarapu H, Somini 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.


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.


Dr. Saber Hussain

Total published abstracts: 20 (not listed on report)

Dr. Jim Lucot


Dr. Courtney Sulentic


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.


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

Dr. Norma Adraga


Apelin Regulation of K-Cl Cotransport is Dependent on Expected and Unexpected Physiological Factors, Norma Adraga, 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. Adraga. 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 Adraga Lecture, September 4,


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


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.


**Dr. Jim Lucot**

Invited lecture Lucot, J.B. Serotonerige 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


**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.


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.


*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.


Poster Presentations

*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.


*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.


*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.


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. 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
o Toxicological Sciences (ASSOCIATE EDITOR)

Professional Memberships and Affiliations
o Italian Society of Nanotoxicology
o Society of Toxicology
o Association of Government Toxicologists

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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

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Student advising

Dr. Adragna
Neelima Sharma, BMS student, 2009-2014, graduated, June 2014
Jasser Alzhrani, MS student, 2013-present
Kranti K. Chougoni, MS student, 2014-present
Praveen Alla, MS student, 2014-present
Silpika Kovvali, MS student, 2014-present.
Chandra Maharjan, MS Student, 2014-present
Ravina Ashetputre, MS Student, 2014-present.
Wedad Saqar, MS student, graduated 2014
Tariq Alqahtani, MS student, graduated 2015
Mohamed Almiahoub, 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 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
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
Dawahil 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 Almiahoub, 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 Algahtani, MS thesis supervision
Laale 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 Abdulmualu
Muna Osman
Nusieba Ibrahim
Abdalmagid 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
Yelunde 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 Adraga
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,

**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.
**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

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**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
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

Hosted events [CME, etc.]

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 Assessent 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