



Department of Pharmacology & Toxicology
Annual Report

2016

Jeffrey Travers, MD, PhD
Professor and Chair

For the period including
January 1, 2016 — December 31, 2016

1

Statement from the Chair/Associate Dean

[Highlights of the year limited to 500 words]

2016 was a year of growth for the Department of Pharmacology & Toxicology. Many accomplishments of the faculty, staff and students of the Department took place, some of which are detailed below.

Faculty. No new faculty were hired in 2016 though we have begun the process of hiring an additional Assistant Professor to begin in 2017. Dr. Ji Bihl received the Scientist Development award from the American Heart Association. Dr. Terry Oroszi was promoted to Assistant Professor. Dr. Richard Simman was promoted to Professor. Dr. Courtney Sulentic received the Ohio Valley Society of Toxicology Distinguished Service Award.

The Faculty participated in our second annual retreat this past fall which was centered around the master's program. The faculty worked toward our goal of increasing the size of the master's program by 50% in the next five years. Growth will come from several areas. First, we plan to increase the numbers of thesis students to take advantage of the larger numbers of active research labs. Second, we plan to modify our non-thesis Leadership Administration track to create a clinically-oriented master's degree, to leverage our Pharmacology Translational Unit (PTU). Finally, we will increase the size of the MD-MS program. A full year has passed since an incentive award policy was developed to compensate faculty who are high performers in the educational, service and mentoring missions of the Department.

Research. Drs. Ji Bihl and Mauricio Difulvio both were awarded American Diabetes Association research grants. Drs. DiFulvio and Khalid Elased both submitted NIH R21 grants focused on under-represented minorities. Dr. Difulvio's grant received a good score and is possibly to be funded (will not be decided until winter). Drs. Sulentic and Travers received a new R21 grant. The PTU obtained three new studies: 1) the CORRONA Psoriasis Registry Study; 2) the CLARITY Trial, Novartis, with the goal of this multicenter double-blinded study to test Cosentyx vs Stelara for moderate-to-severe psoriasis subjects; and 3) Innovaderm study testing an infusion agent for adult atopic dermatitis. These studies were added to the current MAVIS trial testing a melanoma vaccine. Two further pediatric psoriasis studies are in the process of being finalized. Given the added pharma and research translational studies, the PTU has hired Elizabeth Cates, LPN (full-time coordinator), and Scott Newman, NP-C (part-time provider).

Education. The master's program continued to recruit and train high numbers of students. In 2016, we saw a slight decrease in the historic enrollment of master's students seen in 2015. See more details above regarding Fall faculty retreat.

Service/Other. The Departmental newsletter continued to keep our faculty, students, alumni and others aware of the changes in the Department. Dr. Oroszi initiated a "Dayton Think Tank" focused on terrorism which included many members of the Dayton community including the Dayton mayor.

Summary. The Department has emerged from 2016 poised to take advantage of the strong educational enterprise and is developing a strong research portfolio, to include translational

human studies. Our plan for 2017 is to continue to strengthen the missions of Education, Research & Service.

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
Master's Program	Terry Oroszi, Ed.D.	2008-present
Nanotoxicology Research	Saber Hussain, Ph.D.	2010-present
CBRN Certificate Program	Terry Oroszi, Ed.D.	2013-present
Training Program (BIOST)	Khalid Elased, PharmD., Ph.D.	2013-2016
Therapeutics Curriculum	Mary Jo Trout, PharmD.	2013-present
Training Program (BioSTAR, GradPrep)	Courtney Sulentic, Ph.D.	2015-present
Preclinical Pharmacology Core	Yanfang Chen, M.D., Ph.D.	2015-present
Pharmacology Translation Unit (PTU)	Jeffrey Travers, M.D., Ph.D.	2015-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		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

Name and Academic Position	Clinical Interests	Research Interests
Ji Bihl, M.D., 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., Professor		Cardiovascular disease, cerebrovascular complications
Mauricio Di Fulvio, Ph.D., Assistant Professor		Diabetes
Khalid Elased, PharmD., Ph.D., Professor		Diabetes, cardiovascular
Saber Hussain, Ph.D., Professor		Nanoparticles
Terry Oroszi, Ed.D., Assistant Professor, Graduate Program Director, CBRN Defense Program Director, Co-chair EMDP Advisory Board		Group decision making and meeting behaviors
Ravi Sahu, Ph.D., Assistant Professor		Cancer pharmacology
Richard Simman, M.D., Professor	Wound care, plastic surgery	Wound care treatment
Courtney Sulentic, Ph.D., Associate Professor		Immunology
Mary Jo Trout, PharmD., Assistant Professor	Medical training, therapeutics curriculum	
Jeffrey Travers, M.D., Ph.D. Professor and Chair	Translational medicine	Skin inflammation/cancer, Lipid pharmacology
Yong-jie Xu, Ph.D.,		Genome integrity, signaling mechanism of replicator checkpoint

4 Teaching

Baccalaureate [any course for a bachelor's degree]

Dr. Courtney Sulentic

M&I 4260 Microbiology and Immunology, Lecturer (9.5 hrs)

Students:

Gabriel Crabb, WSU, BioSTAR Trainee

Dr. Yongjie Xu

Raisa Siddique, WSU biology major, Cap stone lab research

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

Dr. Norma Adragna

Courses

PTX 9120 Effective Scientific Writing: Part 1, Co-Director

PTX 9220 Effective Scientific Writing: Part 2, Director

Thesis Director

Praveen Alla, MS, 2014-graduated, Fall 2016
Vamsi Chandu, MS, 2015-2016
Nedu Izhezurike, MS, 2015-present

Thesis Co-Director

Chandra Maharjan, MS, 2014-2016, graduated 2016
Joshua Stricker, MS 2016-present
Lamai Alsulaiman, MS, 2015-2016
Gousia Begum, MS, 2016-present

Thesis Advisory Committees

Shesha Paluri, BMS, 2011, 2013-present
Terry Oroszi, EdD, 2016

Dr. F. Javier Alvarez-Leefmans

Courses

PTX 9120 Effective Scientific Writing: Part 1, Director
PTX 9220 Effective Scientific Writing: Part 2, Co-Director
BMS 8750/P&N 7750 Neuroscience & Physiology, Lecturer, 2 lectures
BMS 9940 Introduction to Research, Lecturer, 2 hr lecture

Thesis Advisory Committees

Jacob Vincent, 5th yr MD/PhD student
Pavani Beesetty, BMS PhD program
Vishal Faldu, MS Electrical Engineering, trained on quantitative analysis of digital imaging
Jeannine Crum, PhD, 9th year, BMS
Aaron Madaris, MS Biomedical Engineering.

Dr. Ji Bihl

Courses

PTX 8000 Cell Culture, summer
PTX 8000 Cell Culture, fall
PTX 7002 Journal Club, fall

Thesis advising

Katherine Fahy, MS, 2015-2017 (Mentor: Jeffrey Travers)
Sayali Dharmadhikari, MS Student, 2014-2016 (Mentor: Adrian M. Corbett)

Dr. Yanfang Chen

Thesis Director

Qinmao Ye, MS 2016-present

Students

Jinju Wang, PhD
Xiang Xiao, PhD
Yue Wang, visiting scholar
Qian Cheng, visiting scholar

Thesis Committee

Apri Arnold Daubenspeck, PhD
Abdelfatah Abou Issa, MS, graduated 2016

Dr. David Cool

Courses

PTX 7400 Laboratory Management, Director, 60 hours
PTX 7500 Research Techniques, Director, 90 hours
PTX 7021 Effective Science Writing I, 30 hours
PTX 8000 Laboratory Management, 30 hours
BMS 805 Intercellular communication, 4 hours

Thesis Director

Ravina Ashtapure, MS, Graduated 2016
Faten Bin Dayel, MS, Advisor-leadership
Anas Sergiwa, MS, Advisor-leadership
Bishal Marasini, MS, Advisor-leadership

Thesis Advisory Committees

Walid Mari, MS, projected graduation 2016
Abdelfateh Abou Issa, MS, graduated 2016
Siham Abdul, MS, projected graduation 2016
Katy Fahey, MS, projected graduation 2017
Brian Stogsdill, PhD, projected graduation 2017
Mahmoud Alghamri, PhD, graduated 2016
Yirong Zhou, PhD, projected graduation 2018
Jenny Jurcsisin, PhD, projected graduation 2019

Dr. Mauricio Di Fulvio

Courses

PTX 7001 Cellular Pharmacology & Toxicology, Co-Director
PTX 7300 Cellular Pharmacology & Toxicology, Co-Director
PTX 7110 Journal Club, Director

Dr. Khalid Elased

Courses

PTX 7001 Cellular Pharmacology & Toxicology, lectures on cardiovascular/Obesity/Diabetes
PTX 9120 Effective Scientific Writing: Part 1, Co-Director
PTX 9220 Effective Scientific Writing: Part 2, Co-Director

Thesis Director

Rucha Fadnavis, MS, projected graduation 2017

Thesis Advisory Committees

Ravina Milind Ashtaputre, MS, graduated 2016
Xiang Xiao, PHD, projected graduation 2017

Dr. Saber Hussain

Courses

PTX 8130 Nano Medicine

Thesis Co-Director

Shahryar Qureshi, MS, projected graduation 2018

Dr. Terry Oroszi

Courses

PTX 7022 Effective Scientific Writing: Part 1, summer, fall
PTX 9220 Effective Scientific Writing: Part 2, spring, summer, fall
PTX 8000-05 Leadership, Theory & Application, spring
PTX 8000-09 Advanced Science Writing, spring
PTX 8140 Human Studies Research, spring, summer, fall
PTX 8120 Case Studies for CBRN Defense, spring, summer
PTX 8210 Applications to Medical Bio Defense, spring, fall
PTX 8000-01 MD/MS Capstone Journal Club, summer
PTX 8120 Intro to PTX Graduate Research, fall

Advisor Leadership

Eman Alabdrabalnabi, graduated
Yusra Andijani, graduated

Dr. Ravi Sahu

Courses

PTX 7021 Effective Scientific Writing: Part 1, alternate faculty
PTX 9220 Effective Scientific Writing: Part 2, alternate faculty

Leadership advisory/lab work

Jeremiah Saylee, MS, projected graduation 2017
Bishal Maracini, MS, projected graduation 2017

Dr. Richard Simman

Courses

PTX 8080 Wound Healing

Thesis Director

Sami Gamaledin, 2015-present
Sani Sabri, 2016-present
Walid Mari, projected graduation 2017

Dr. Courtney Sulentic

Courses

PTX 7300 Cellular Pharmacology & Toxicology, lecturer 18 hours, Faculty Facilitator, 30 hours
M&I 7260 Microbiology and Immunology, lecturer, 17 hours
M&I 7260 Microbiology and Immunology Seminar Course, co-director, 28 hours
BMS 8050 Intercellular Communication, lecturer 4.5 hours, Faculty Facilitator 1.5 hours

Thesis Director

Andrew Snyder, BMS, PhD, defended spring 2016
Rebecca Law, MS, non-thesis research project, graduated 2016
Zahra Jassim Alfaheeda, Microbiology/Immunology M.S., defended spring 2016
Nicole Panstingel, Pharm/Tox M.S.
Siham Abdulla, Pharm/Tox M.S.
Nasser Alhamdan, Microbiology/Immunology M.S.
Clayton Buckner, Microbiology/Immunology M.S.
Jennifer Rubio, visiting intern from Cal Polytech, summer 2016

Thesis Advisory Committees

Amanda Hanes (BMS representative), BMS, Ph.D.
Sumeet Poudel, BMS, Ph.D.
Kevin Novak, (BMS representative), BMS Ph.D.
Tu Thien Danh, BMS Ph.D.
Sumeet Poudel, BMS Ph.D.
Todd Lewis, BMS Ph.D. (BMS representative)
Denise Kramer, BMS Ph.D.
Caitlin Persin, Microbiology/Immunology M.S., defended summer 2016
Mary Thompson, Microbiology/Immunology M.S., defended summer 2016

Dr. Jeffrey Travers

Courses

PTX 8000 Independent Study Journal Club, Director, summer
PTX 7021 Effective Scientific Writing, faculty, fall

Thesis Director

Katherine Fahy, MS, projected graduation 2018
Langni Liu, PhD, 2016-present

Thesis Advisory Committees

Walid Mari, MS, projected graduation 2017
Nicole Panstingel, projected graduation 2017
Chien Poon, projected graduation 2017
Xiao Zhang, PhD, 2015-present
James Readler, PhD, 2015-present
Prakash Arumugan, MD/PhD, 2015-2016, graduated
Ann Collier, PhD at Indiana University, 2013-present

Dr. Yongjie Xu

Postdoctoral fellows

Hongbin Dong, PhD., 2015-2016

Michal Wozniak, PhD., 2016-present

Undergraduate medical education [medical school]

Dr. F. Javier Alvarez-Leefmans

Judge, Poster competition, 8th Annual Medical Student Research Symposium, BSOM

Madelyn G. Jones, Voluntary student from biology pursuing graduate education

Lecture on Back Pain with Dr. Rich, one session, 2nd year medical students

Dr. David Cool

SMD 521 CATOs (MCTB) Hormone Synthesis 1st year BSOM, 2 hours

Dr. Khalid Elased

SMD 580 Staying Alive Course, WrightQ sessions, 2nd year medical students

SMD 553 Digestive course, 2nd year medical students

Dr. Richard Simman

Sneha, medical student 2016

Dr. Courtney Sulentic

Principles of Disease, Engaged Learning Modules, faculty facilitator, 6 hours

Pathobiology and Therapeutics, Engaged Learning Modules, faculty facilitator, 5 hours

Wright Q facilitator, 32 hours

Dr. Jeffrey Travers

Pathobiology and Therapeutics Module 2nd year medical students

Problem-Based Learning Modules for "Immunologic Disorders and Immunopharmacology, Co-led, 4 hours

Problem-Based Learning Modules for "Environmental Pathology and Toxicology, Co-led, 4 hours

Graduate medical education [residents, fellows]

Dr. Richard Simman

Jessica, resident, 2016

Dr. Jeffrey Travers

Supervises dermatology residents and medical students in dermatology clinics, 8 hours/week

Continuing medical education [grand rounds, seminars]

Dr. Jeffrey Travers

"Cytokines" Midwest Dermatology Residencies Cutaneous Biology Course, Indianapolis, Indiana, Nov 2016

Other

Dr. David Cool

Proteomic Workshop, 4-5 day for students, staff and faculty

Dr. Mauricio Di Fulvio

Review Editor, Frontiers in Endocrinology

Dr. Terry Oroszi

Analyst Boot Camp- Terrorism and Leadership, students at WSRI ATIC, 2 days/semester

Dr. Ravi Sahu

Oral pres. 6th Global Summit on Toxicology & Applied Pharmacology, October 17-19, 2016, Houston TX

Oral presentation, 2nd International Conference and Exhibition on Antibodies on “The New Era of Antibody Research and Therapy”, July 11-12, Philadelphia, Pennsylvania. (moderator)

Dr. Courtney Sulentic

Mentor Match Program Mentor, SOT, Alicia Taylor, PhD, Post-doc, University of California, Berkeley
Mentor, Speed Mentoring Brunch & Mentoring Program, Women in STEMM Leadership Instituted and
Women in Science Giving Circle, Melinda Meiring, undergrad, WSU

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

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, \$ 300,000 (WSU & Stanford), 2014-2017, Co-P.I.

Dr. F. Javier Alvarez-Leefmans

Grant from the Dayton Children’s Hospital Foundation (PI). Fund 670180 “Pharmacological Control of Cerebrospinal Fluid Secretion with Bumetanide Targeting the Choroid Plexus Na⁺-K⁺-2Cl⁻ cotransporter NKCC1: a rational medical treatment of idiopathic intracranial hypertension”. Submitted on 02/22/15. The basic science portion of this application was funded. Total awarded funds: S 20,000/year for two years. Official confirmation letter received on 02/08/16. Estimated Ending date 02/08/2018.

Dr. Ji Bihl

AHA Scientist Development Grant (16SDG26420078), PI, 1/1/2016-12/31/2019, ROLE OF ACE2 OVER-EXPRESSING ENDOTHELIAL PROGENITOR CELLS IN CEREBRAL HEMORRHAGE. The major goal of this project is to determine the preventive and therapeutic role of ACE2 over-expressing endothelial progenitor cells (ACE2-EPCs) in hemorrhagic stroke animal model and determine the underlying mechanisms. Co-PI Yanfang Chen

Dr. Khalid Elased

BSOM Translational Grant, 2016-2018, Novel Approach to the Discovery of New Urinary Biomarkers for Early Detection of Chronic Kidney Disease Role: Co- Principal Investigator. Total amount of Fund \$ 50.000.00

American Society of Nephrology, Carl W. Gottschalk Research Scholar Grant, 2015-2017, “Molecular Imaging of RAS for the Discovery of Novel Biomarkers in Chronic Kidney Disease”, Role: Co-Investigator (Grobe, PI)
Total amount of Fund, \$ 200.000.00

Henry Jackson Foundation, 2016-2017, Molecular Imaging of RAS for the Discovery of Novel Biomarkers in Chronic Kidney Disease, Role: Principal Investigator (sub -contractor) (Grobe PI). Total amount of Fund \$25.000.00

Dr. Ravi Sahu

NIH/NIEHS 7K22ES023850-02, (P.I. Sahu), \$487,551, 07/2014-06/2017, 9 Calendar months effort (6 academic + 3 summer), Environmental Pro-oxidative Stressors and immunosuppression

Dr. Richard Simman

Simman R (March2016-present) Effect of Bilaminar Hyalomatrix on Wound Bed Preparation, MedLine \$40,000 PI.

Simman R (Dec 2013-present) Effect of Oasis Collagen matrix on Stage III and IV Trunk Pressure Wounds Treated with Negative Pressure Wound Therapy (NPWT). Smith & Nephew, \$66,000. PI

Dr. Courtney Sulentic

5R25GM090122 National Institute of general Medical Sciences (08/01/2011-06/30/2016, currently in a no-cost extension) Biomedical Scholars Program (BioSTAR), Initiative for Maximizing Student Development (IMSD), Program Director

R21AR070010 NIH, co-PI (07/01/2016-03/31/2018), "Photodynamic therapy-induced immune modulation: Mechanisms and influence on therapeutic efficacy", Women in Science Giving Circle Faculty Grant

Dr. Jeffrey Travers

Pharmaceutical-sponsored studies:

MAVIS Melanoma Vaccine in State IIb,IIc and III Melanoma Patients (Travers) 10/01/2015 to 9/30/19
Polynoma LLC

The goal of this multicenter double-blinded placebo-controlled Phase III study is to test a polyvalent melanoma vaccine in high-risk melanoma patients. Our Pharmacology Translational Unit at Wright State University is one of the sites.

CORRONA Psoriasis Registry Study 07/01/2016 to 06/30/2021

The goal of this registry study sponsored by the National Psoriasis Foundation is to define effectiveness of various treatments for psoriasis. Our Pharmacology Translational Unit at Wright State University is one of the sites.

CLARITY Trial 11/01/2016 to 06/30/2018

Novartis

The goal of this multicenter double-blinded study is to test Cosentyx vs Stelara for moderate-to-severe psoriasis subjects. Our Pharmacology Translational Unit at Wright State University is one of the sites.

Extramural support:

R01 HL062996 (Travers) 07/01/1999 to 9/30/2019 25% effort
NIH/NHLB \$250,000 direct costs/year

Platelet-activating factor and Epidermal Cytotoxicity

The objectives of this study are to define the role of oxidized glycerophosphocholines in UVB-mediated early responses in human and murine skin, as well as to characterize novel oxidized lipids produced in response to UVB.

R01 ES020866 (Spandau/Travers-co-PI's) 09/01/2012 to 5/31/2017 15% effort
NIH/NIEHS \$225,000 direct costs/year

Mechanisms of photocarcinogenesis in geriatric skin

The objectives of this project are to define the lasting effects of dermal rejuvenation by dermabrasion or fractionated laser resurfacing techniques to increase dermal IGF-1 levels and correct the abnormal acute UVB response in geriatric subjects. IGF-1R signaling pathways that result in keratinocyte senescence will be defined by creating skin equivalents with keratinocytes expressing dominant-negative and overexpressing P38 MAPK and p53 proteins. These skin equivalents will be tested in vitro and in vivo for UVB-mediated pro-carcinogenic responses. This grant will remain at Indiana University and I will subcontract to perform clinical studies.

R01 AG048946-01A1 (Travers/Spandau-co-PIs) 09/01/2014 to 04/30/2019 20% effort
Wounding Therapy and Photocarcinogenesis \$205,000 direct costs/year

The objective of these studies is to test the ability of wounding therapies including fractionated laser resurfacing to inhibit abnormal dermal senescence in human geriatric subjects and includes a clinical study to define if laser resurfacing can protect against skin cancer in geriatric subjects at our VA dermatology clinic. This grant has been moved to Wright State University and a subcontract established for Dr. Spandau.

R21 AR070010-01A1 (Travers-Sulentic-co-PIs) 07/01/2016 – 03/31/2018 10% effort
Photodynamic Therapy-Induced Immune Modulation: Mechanisms and Influence on Therapeutic Efficacy
\$125-150,000 direct costs/year

The objective of this study is to test the immune effects of PDT in human subjects.

Basic Science VA Merit Award (Travers) 10/01/2010 to 03/31/2020, 20% VA effort
510BX000853 \$146,000 direct costs/year

Oxidized lipids and UV immunosuppression

The objective of this study is to define photodynamic therapy-mediated systemic immunosuppression using

Murine and human model systems.

Clinical VA Merit Award (Travers) 7/01/2014 to 6/30/2019, 20% VA effort
1101CX000809 \$150,000 direct costs/year
IGF-1 and the initiation of non-melanoma skin cancer

The objectives of this grant are to test the pro-carcinogenic effects of chronic UVB on localized areas of skin on young versus geriatric subjects, and test whether localized IGF-1 is protective. In addition, the ability of topical IGF-1 inhibitor to augment procarcinogenic effects of UVB on human skin xenografted onto immunodeficient mice will be defined.

Dr. Yongjie Xu

NIH RO1-GM110132 Grant "Signaling Mechanism of the DNA Replication Checkpoint", 2/1/2015-1/30/2020
Total Cost for the current year: \$259000 (\$84000 pro-rated indirect cost; \$175000 prorated indirect cost)
Total Cost for the entire grant period is \$1295000, Salary Offset: 25%

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

Papers in refereed journals

Dr. Ji Bihl

Pan Q, He C, Liu H, Liao X, Dai B, **Chen Y**, Yang Y, Zhao B, **Bihl J**, Ma X (2016) "Microvascular endothelial cells-derived microvesicles imply in ischemic stroke by modulating astrocyte and blood brain barrier function and cerebral blood flow," *Mol Brain*. 9(1):63.

Wang J, Guo R, Yang Y, Jacobs B, Chen S, Iwuchukwu I, Gaines K, **Chen Y**, **Simman R**, Lv G, Wu K, **Bihl J** (2016) "The novel methods for analysis of exosomes released from endothelial cells and endothelial progenitor cells," *Stem Cells International*, 2016: 2639728.

Wu K, Yang Y, Zhong Y, Zhang P, Guo R, Liu H, Cheng C, Koroscil TM, **Chen Y**, Liu S, **Bihl J** (2016) "The effects of microvesicles on endothelial progenitor cells are compromised in type 2 diabetic patients via downregulation of miR-126/VEGFR2 pathway," *Am J Physiol Endocrinol Metab*. 310(10):E828-37.

Bihl JC, Rapp CA, **Chen YF**, **Travers JB**. UVB generates microvesicle particle release in part due to Platelet-activating Factor signaling. *Photochemistry & Photobiology*, 92(3):503-6, 2016. PMID: 26876152.

Dr. Yanfang Chen

Wang J, Zhong Y, Ma X, Xiao X, Cheng C, Chen Y, Iwuchukwu I, Gaines KJ, Bin Zhao, Liu S, **Travers JB**, **Bihl JC**, **Chen Y** (2016) "Analyses of endothelial cells and endothelial progenitor cells released microvesicles by using microbead and Q-dot based nanoparticle tracking analysis," *Sci Rep*. 6:24679.

Wang J, Chen Y, Yang Y, Xiao X, Chen S, Zhang C, Jacobs B, Zhao B, **Bihl J**, **Chen Y** (2016) "Endothelial progenitor cells and neural progenitor cells synergistically protect cerebral endothelial cells from hypoxia/reoxygenation-induced injury via activating the PI3K/Akt pathway," *Mol Brain*, 9(1):12.
Ma CL, Ma XT, Wang JJ, Liu H, Chen YF, Yang Y. Physical exercise induces hippocampal neurogenesis and prevents cognitive decline. *Behav Brain Res*. 2016;317:332-339

Jinju Wang, Yun Zhong, Xiaotang Ma, Xiang Xiao, Chuanfang Cheng, Yusen Chen, Ifeanyi Iwuchukwu, Kenneth J. Gaines, Bin Zhao, Shiming Liu, **Jeffrey B. Travers**, **Ji C. Bihl***, **Yanfang Chen***. Analyses of endothelial cells and endothelial progenitor cells released microvesicles by using microbead and Q-dot based nanoparticle tracking analysis. *Scientific Reports* 2016, 20;6:24679.

Yang Y, Yang X, Dong Y, Chen N, Xiao X, Liu H, Li Z, **Chen Y***. Transcutaneous electrical acupoint stimulation alleviates adverse cardiac remodeling induced by overload training in rats. *J Appl Physiol*. 2016;120(11):1269-76.

Wang J, Chen Y, Yang Y, Xiao X, Chen S, Zhang C, Jacobs B, Zhao B, **Bihl J***, **Chen Y***. Endothelial progenitor cells and neural progenitor cells synergistically protect cerebral endothelial cells from hypoxia/reoxygenation-induced injury via activating the PI3k/Akt pathway. *Mol Brain* 2016; 9(1):12

Dr. David Cool

Morgan, M.S., Arlian, L.G., Rider, Jr, S.D., Grunwald Jr., W.C., Cool. D.R A Proteomic Analysis of *Sarcoptes scabiei* (Acari: Sarcoptidae) *J. Medical Entomology* 2016; doi: 10.1093/jme/tjv247.

Dr. Mauricio Di Fulvio

Halm S, Bottomely M, Almutairi M, **Di Fulvio M**, and Halm D. Survival and growth of C57BL/6J mice lacking the BK channel, *Kcnma1*: lower adult body weight occurs together with higher body fat. *Physiological Reports*.

Otaño-Rivera V, Boakye A, Grobe N, Almutairi M, Kursan S, Mattis L, Castrop H, Gurley S, **Elased KM**, Boivin G, **Di Fulvio M** (2016). A highly efficient strategy to determine genotypes of genetically engineered mice using genomic DNA purified from hair roots. *Laboratory Animals*, May 9, doi:10.1177/0023677216646088.

Singh R, Kursan S, Almiahou MY, Almutairi MM, Garzón-Muvdi T, **Alvarez-Leefmans FJ** and **Di Fulvio M**. Plasma membrane targeting of endogenous NKCC2 in COS7 cells bypasses functional Golgi cisternae and complex N-glycosylation. *Front. Cell Dev. Biol.* doi: 10.3389/fcell.2016.00150.

Otaño-Rivera VE, Boakye A, Grobe N, Almutairi MM, Kursan S, Mattis LK, Castrop H, Gurley SB, **Elased KM**, Boivin GP and **Di Fulvio M**. A highly efficient strategy to determine genotypes of genetically engineered mice using genomic DNA purified from hair roots. (2016) *Lab Anim*. 2016 May 9. pii: 0023677216646088. DOI: 10.1177/0023677216646088

Dr. Khalid Elased

Domenig O, Manzel A, Grobe N, Königshausen E, Kaltenecker CC, Kovarik JJ, Stegbauer J, Gurley SB, van Oyen D, Antlanger M, Bader M, Motta-Santos D, Santos RA, **Elased KM**, Säemann MD, Linker RA, Poglitsch M (2016). Nephrilysin is a Mediator of Alternative Renin-Angiotensin-System Activation in the Murine and Human Kidney. *Sci Rep*. Sep 21;6:33678. doi: 10.1038/srep33678.

Dr. Saber Hussain

Braun NJ, DeBrosse MC, **Hussain SM**, Comfort KK. Modification of the protein corona-nanoparticle complex by physiological factors. *Mater Sci Eng C Mater Biol Appl*. 2016; 64:34-42.

Coker Z, Estlack L, **Hussain SM**, Choi TY, Ibey BL. Investigation of superparamagnetic (Fe₃O₄) nanoparticle and magnetic field exposures on CHO-K1 cell line. *SPIE BiOS*. 2016; 97061Y-97061Y-10.

Grabinski C, Sharma M, Maurer E, Sulentic C, Mohan Sankaran R, **Hussain SM**. The effect of shear flow on nanoparticle agglomeration and deposition in in vitro dynamic flow models. *Nanotoxicology*. 2016; 10(1):74-83.

Teodoro JS, Silva R, Varela AT, Valente Duarte F, Pinto Rolo A, **Hussain SM**, Marques Palmeira C. Low-dose, subchronic exposure to silver nanoparticles causes mitochondrial alterations in Sprague-Dawley rats. *Nanomedicine*. 2016; 1359-1375.

West AL, Schaeublin N, Griep M, Gardner E, Cole DP, Fakner AM, **Hussain SM**, Karna SP. In situ synthesis of fluorescent gold nanoclusters by non-tumorigenic microglial cells. *ACS Applied Materials & Interfaces*. 2016; 8(33):21221–21227.

Matthew W Grogg, Laura K Braydich-Stolle, Elizabeth I Maurer-Gardner, Natasha T Hill, Suraj Sakaram, Madhavi P Kadakia, **Saber M Hussain**. Modulation of miRNA-155 alters manganese nanoparticle-induced inflammatory response. *Toxicology Research* 5 (6), 1733-1743

Dr. Ravi Sahu

Sahu RP, Harrison KA, Weyerbacher J, Murphy RC, Konger RL, Garrett JE, Chin-Sinex HJ, Johnston II, ME, Dynlacht JR, Mendonca M, McMullen K, Li G, Spandau DF, **Travers JB**. Radiation therapy generates immunosuppressive Platelet-activating Factor agonists. *Oncotarget* 7:20788-800, 2016. PMID: 26959112

Dr. Richard Simman

D Mrdjenovich, **R Simman**, C Fleck, T Luttrell. The American College of Clinical Wound Specialists (ACCWS) Rebuttal to the Recent NPUAP Pressure Ulcer Definition (August 2016) DOI: <http://dx.doi.org/10.1016/j.jaccw.2016.08.002>

Jinju Wang, Runmin Guo, **R Simman** et al. The Novel Methods for Analysis of Exosomes Released from Endothelial Cells and Endothelial Progenitor Cells. *Stem Cells International*, Volume 2016, Article ID 2639728, 12 pages.

Dr. Courtney Sulentic

Gibson, J.N., Beesetty, P., **Sulentic, C.E.W.**, Kozak, J.A. Rapid quantification of mitogen-induced blastogenesis in T lymphocytes for identifying immunomodulatory drugs. *Jove*, 2016; 118:e55212, <http://www.jove.com/video/55212>

Dr. Jeffrey Travers

Sahu RP, Harrison KA, Weyerbacher J, Murphy RC, Konger RL, Garrett JE, Chin-Sinex HJ, Johnston II ME, Dynlacht JR, Mendonca M, McMullen K, Li G, Spandau DF, **Travers JB**. Radiation therapy generates Platelet-activating Factor agonists. *Oncotarget* 2016, 7(15):20788-800.

Sehra S, Serezani APM, Ocaña JA, **Travers JB**, Kaplan MH. Mast cells regulate epidermal barrier function and the development of allergic skin inflammation. *J. Invest. Dermatol.* 136:1429-37, 2016. PMID: 27034271

Loesch MM, Collier AE, Southern DH, Ward RE, Tholpady SS, Lewis DA, **Travers JB**, and Spandau DF. Insulin-like growth factor-1 receptor regulates repair of ultraviolet B-induced DNA damage in human keratinocytes in vivo. *Molecular Oncology.* 10(8): 1245-54, 2016. PMID: 27373487

Ward RE, Veerula VL, Ezra N, **Travers JB**, Mousdicas N. Multilevel symmetric neuropathic pruritus (MSNP) presenting as recalcitrant "generalized" pruritus. *J. Am. Acad. Dermatol.* 75:774-81, 2016. PMID: 27476106.

Sehra S, Krishnamurthy P, Koh B, Zhou HM, Seymour L, Akhtar N, **Travers JB**, Turner MJ, Kaplan MH. Increased Th2 activity and diminished skin barrier function cooperate in allergic skin inflammation. *Eur J Immunol* 46(11):2609-2613, 2016. PMID: 27510401.

Dr. Yongjie Xu

Xu YJ, Singh A, and Alter GM (2016) Hydroxyurea induces cytokinesis arrest in cells expressing a mutated sterol-14a-demethylase in the ergosterol biosynthesis pathway. *Genetics* 204:959-973

Xu YJ (2016) Inner nuclear membrane protein Lem2 facilitates Rad3-mediated checkpoint signaling under the replication stress induced by nucleotide depletion in fission yeast. *Cell. Signal.* 28:235-245

Books, chapters, reviews

Dr. F. Javier Alvarez-Leefmans

Alvarez-Leefmans, F.J. Intracellular Chloride Regulation. In preparation for the 5th Edition of

Dr. David Cool

Haverman, L.M., Cool, D. R., Gagneux, P., Yaklic, J.L., Maxwell, R., Lindheim, S.R., A review of Vulvodynia: What we know and where we are going. *J. Lower Genital Tract Disease.* 11/02/2016

Dr. Terry Oroszi

James, L. and Terry Oroszi, T. Recognizing a Developing Terrorist: Seeing the Signs in your Neighborhood, Workplace, or School, Praeger Publishing, Santa Barbara, CA, 2016

Dr. Ravi Sahu

Thyagarajan-Sahu A, Sahu RP. Antioxidants and immunosuppression: Implications in Cancer therapeutics. *Integrative Cancer Therapies* 2016. DOI: 10.1177/1534735416681639.

Maracini B, Sahu RP. Natural anti-cancer agents: Implications in gemcitabine-resistant pancreatic cancer treatment. *Mini-Reviews in Medicinal Chemistry* 2016

Dr. Jeffrey Travers

Sargent, EV, Travers JB. Examining the Differences in Current Regulatory Processes for Sunscreens and Proposed Safety Assessment Paradigm. *Regulatory Toxicology and Pharmacology* 79:125-41, 2016. PMID: 27016397.

Dr. Yongjie Xu

The Cell Killing Mechanisms of Hydroxyurea (2016) *Genes* 7, 99

Published abstracts

Dr. Norma Adragna

Internalized Silver Nanoparticles Alter Ion Transport and Hemoglobin Spectrum in Human Red Blood Cells: Praveen Kumar Alla, Peter K Lauf, Ioana Pavel, Arathi Paluri, Marjorie Markopoulos, Jerome Yaklic, and Norma C. Adragna, FASEB J. 30:lb620, 2016

Ion Channels, Transporters and Pumps in Health and Disease: Chandra Kumar Maharjan, Judith Heiny, Norma C Adragna, and Peter K Lauf Pig Renal Na/K ATPase and Bcl-2 Proteins: A Co-Immuno-Precipitation Study, FASEB J. 30:1224.2, 2016.

Internalization of silver nanoparticles alters K homeostasis in human red blood cells, Norma C. Adragna, Praveen K. Alla, Ioana Sizmore, Arathi S.L. Paluri, Jerome Yaklic and Peter K. Lauf, 11TH International Congress, Cell Volume Regulation and fluid Homeostasis: Implications for Hydration and Nutrition in Health and Disease, Chicago, IL, August 15-18, pg. 18, 2016.

Alla, P.K., Peter K Lauf, Ioana Pavel, Arathi Paluri, Marjorie Markopoulos, Jerome Yaklic, and Norma C. Adragna. Internalized silver nanoparticles alter ion transport and hemoglobin spectrum in human red blood cells. Ohio Valley Society of Toxicology, Annual Meeting, Abstract Book, 2016.

Joshua L Stricker, Norma C Adragna, and Peter K Lauf. Immuno-cytochemical exploration of interaction between Na/K ATPase (NKA), Bcl-2 (BclXI) and other proteins: determinants of digitalis-NKA receptor internalization. Ohio Valley Society of Toxicology, Annual Meeting, Abstract Book, 2016.

Not all silver nanoparticles are equal: Effect of functionalization on K homeostasis in human red blood cells. Praveen K. Alla, Peter K. Lauf, Ioana Sizmore, Arathi S.L. Paluri, Jerome Yaklic and Norma C. Adragna, Ohio Physiological Society, 31st Annual Meeting, Abstract Book, 2016.

Immuno-cytochemical exploration of interaction between Na/K ATPase (NKA), Bcl-2 (BclXI) and other proteins: determinants of digitalis-NKA receptor internalization, Joshua L Stricker, Norma C. Adragna, and Peter K Lauf. Ohio Physiological Society 31st Annual Meeting, Abstract Book, 2016.

Dr. F. Javier Alvarez-Leefmans

Patyal P. and Alvarez-Leefmans, F.J. Expression of NKCC1 and Aquaporins 4, 7 and 9 in Mouse Choroid Plexus and Ependymal Cells. The FASEB Journal vol. 30 no. 1 Suppl. lb621 April 2016.

Dr. Ji Bihl

Travers JB, Rapp C, Bihl J. UVB generates microvesicle particles via Platelet-activating factor receptor signaling: a novel pathway by which a skin-specific stimulus exerts systemic effects. J. Invest. Dermatol. 136(5) S104, 2016.

Dr. Yanfang Chen

Wang J, Ma X, Chen S, Xiao X, Bihl J, Zhao B, Chen Y (2016) "Co-transplantation of NPCs and EPCs synergistically promotes brain recovery after ischemia-reperfusion in mice," AHA International Stroke Conference, Los Angeles, CA

Dr. David Cool

Daubenspeck, A., Cool, D.R., Ludwig, B., Olson, J.E., A novel Approach to Ischemic Stroke Biomarker Discovery. Neuroscience, 2016.

Abou Issa, Abdelfatah S.; Simman, Richard; Cool, David. Effect of Oasis-Ultra Matrix on the Healing Rate of Stage IV Pressure Wounds. Plastic and Reconstructive Surgery - Global Open. 4(9S):191-192, September 2016.

Dr. Khalid Elased

Nadja Grobe, Laale Alawi, Rucha Fadnavis, Elased KM. Role of AT1a receptor in 2K1C model of renovascular hypertension and its impact on Renal ACE2 and NEP Protein Expressions, Conference: ASN Kidney Week 2016 Annual Meeting. Location: Chicago IL, November 15-20, 2016, Sponsor(s): American Society of Nephrology

Dr. Saber Hussain

Total of 8 abstracts

Dr. Terry Oroszi

Oroszi, T. (2016). A Pilot Study of High-Stakes Decision-Making for Crisis Leadership, SAFE Symposium, Dayton, OH.

Oroszi, T., (2016). Power: Perspective, Platforms and Paradigms. Technical Symposium Cincinnati-Dayton Chapter of INFORMS.

Scott, R., Dominguez, M., Burgess, D., Oroszi, T., Gallimore, J., (2016). Implementing provider, patient: Provider and patient facing interventions in a virtual environment, The MedBiquitous Annual Conference, Johns Hopkins School of Medicine in Baltimore, MD.

Dr. Ravi Sahu

Raymond L. Konger, Jeffrey B. Travers, Ravi P. Sahu. PPAR γ activation is necessary for normal contact hypersensitivity responses and may promote cutaneous anti-tumor immune response. Abstract presented in the Society of Investigative Dermatology meeting 2016. DOI: 10.1016/j.jid.2016.02.616.

Konger RL, Travers JB, Sahu R. PPAR γ activation is necessary for normal contact hypersensitivity responses and may promote cutaneous anti-tumor immune responses. *J. Invest. Dermatol.* 136(5) S102, 2016.

In addition to these published abstracts, several other abstracts were presented in national and internal meetings.

Dr. Richard Simman

Abdelfatah Abou Issa MD, Richard Simman MD. Effect of Oasis Ultra Matrix on the Healing Rate of Stage IV Pressure Wounds. SAWC, Wound Healing Society, fall meeting. October 6-9, 2016, Las Vegas, NV.

Richard Simman, MD, Walid Omari, MD. Use of Esterified Hyaluronic Acid Wound Matrix in Wound Bed Preparation, a Case. Series. SAWC, Wound Healing Society, fall meeting. October 6-9, 2016, Las Vegas, NV.

Walid Mari, MD, Richard Simman, MD. The Role of Extracellular Microvesicles in Wound Healing. SAWC, Wound Healing Society, fall meeting. October 6-9, 2016, Las Vegas, NV.

Abou Issa, Abdelfatah S.; Simman, Richard. Clinical Outcome of Porcine Intestinal Sub-Mucosa Usage, a Case Series. *Plastic and Reconstructive Surgery - Global Open.* 4(9S):185-186, September 2016.

Abou Issa, Abdelfatah S.; Simman, Richard; Gilkeson, Julie M. Coverage of Exposed Lower Extremity Bypass Vascular Graft with Integra and NPWT for Limb Salvage. *Plastic and Reconstructive Surgery – Global. Open.* 4(9S):189-190, September 2016.

Abdelfatah Abou Issa MD, Richard Simman MD, Julie Galkison, MD (April 13-17, 2016) Coverage of Exposed Lower Extremity Bypass Vascular Graft with Bi-Laminar Dermal Regeneration Template and NPWT for Limb Salvage. SAWC, Wound Healing Society Meeting, Atlanta, GA

Abdelfatah Abou Issa MD, Richard Simman MD, FACS, FACCWS (April 13-17, 2016) Clinical Usage Outcome of Porcine Intestinal Sub-Mucosa, A Case Series. SAWC, Wound Healing Society Spring Meeting, Atlanta, GA

Walid Mari, MD, Sara A. Younes, MD, Sami G. Alsabri, Manar M. Hajjan, Yanfang Chen, MD, David R. Cool, PhD. Terry L. Oroszi, MS., Jeffery B. Travers, MD., PhD., Richard Simman, MD. The Correlation Between Wound Healing Rate and Circulating Microvesicles Collected From Stage IV Pressure Wounds Fluid Treated with NPWT Alone vs. NPWT and SIS*. SAWC, Wound Healing Society Meeting, Atlanta, GA. (April 13-17, 2016).

Dr. Courtney Sulentic

Panstingel, N., Sulentic, C. E. W.: Determining the role of AhR in immunoglobulin expression using CRISPR Cas9. *Toxicological Sciences, the Toxicologist*, 150:1126, 2016.

Burra, N., Sulentic, C. E. W.: Differential effect of the aryl hydrocarbon receptor on immunoglobulin gene expression in human B cells. *Toxicological Sciences, the Toxicologist*, 150:1363, 2016.

Snyder, A., Panstingel, Abdullah, S., Sulentic, C. E. W.: Reducing the number of hs1.2 invariant sequence repeats in the 3' immunoglobulin heavy chain regulatory region alters Ig expression. *Toxicological Sciences, the Toxicologist*, 150:1938, 2016.

Dr. Jeffrey Travers

Krbanjevic A, Southern D, Travers JB, Spandau D. Silencing of IGF-1 expression in senescent dermal fibroblasts is regulated by FOXM1. *J. Invest. Dermatol.* 136(5) S14, 2016.

Sahu RP, Weyerbacher J, Ocana JA, Konger RL, Travers JB. Enhanced production of platelet-activating factor-receptor ligands via ethanol synergizes ultraviolet B mediated acute and systemic effects. *FASEB J.* 30:1177.20, 2016.

Dr. Yongjie Xu

Jeanty M and Xu YJ (2016) Identification of new genes that function in the dNTP regulation network. BioSTAR/STREAM Annual Poster Symposium at WSU

Significant presentations

Dr. Norma Adragna

Norma C. Adragna, Oxidative Stress Modulation of K-Cl Co-transporters, 6th Annual. Conference, Puerto Rico Physiological Society, San Juan, Puerto Rico, February 12, 2016 (Invited).

Alla, P.K., Peter K Lauf, Ioana Pavel, Arathi Paluri, Marjorie Markopoulos, Jerome Yaklic, and Norma C. Adragna. Internalized silver nanoparticles alter ion transport and hemoglobin spectrum in human red blood cells. *Exp. Biol. Mtg.* San Diego, CA, April 2-6, 2016.

Ion Channels, Transporters and Pumps in Health and Disease: Chandra Kumar Maharjan, Judith Heiny, Norma C Adragna, and Peter K Lauf. Pig Renal Na/K ATPase and Bcl-2 Proteins: A Co-Immuno-Precipitation Study. *Exp. Biol. Mtg.* San Diego, CA, April 2-6, 2016.

Norma C. Adragna, Praveen K. Alla, Ioana Sizmore, Arathi S.L. Paluri, Jerome Yaklic and Peter K. Lauf. Internalization of silver nanoparticles alters K homeostasis in human red blood cells. 11TH International Congress, Cell Volume Regulation and fluid Homeostasis: Implications for Hydration and Nutrition in Health and Disease, Chicago, IL, August 15-18, 2016 (Invited).

Alla, P.K., Peter K Lauf, Ioana Pavel, Arathi Paluri, Marjorie Markopoulos, Jerome Yaklic, and Norma C. Adragna. Internalized silver nanoparticles alter ion transport and hemoglobin spectrum in human red blood cells. *Ohio Valley Society of Toxicology, Annual Meeting, Indianapolis, IN, October 28th, 2016.*

Joshua L Stricker, Norma C Adragna, and Peter K Lauf. Immuno-cytochemical exploration of interaction between Na/K ATPase (NKA), Bcl-2 (BclXI) and other proteins: determinants of digitalis-NKA receptor internalization. *Ohio Valley Society of Toxicology, Annual Meeting, Indianapolis, IN, October 28th, 2016.*

Praveen K. Alla, Peter K. Lauf, Ioana Sizmore, Arathi S.L. Paluri, Jerome Yaklic and Norma C. Adragna. Not all silver nanoparticles are equal: Effect of functionalization on K homeostasis in human red blood cells. Praveen K. Alla, Peter K. Lauf, Ioana Sizmore, Arathi S.L. Paluri, Jerome Yaklic and Norma C. Adragna, *Ohio Physiological Society 31st Annual Meeting, Ohio State University, Columbus OH, November 19, 2016. Poster # 4.*

Joshua L Stricker, Norma C. Adragna, and Peter K Lauf. Immuno-cytochemical exploration of interaction between Na/K ATPase (NKA), Bcl-2 (BclXI) and other proteins: determinants of digitalis-NKA receptor internalization, *Ohio Physiological Society 31st Annual Meeting, Ohio State University, Columbus OH, November 19, 2016. Poster # 66.Consultantships [sponsor activity]*

Dr. F. Javier Alvarez-Leefmans

Invited Seminar Speaker. Center for Biomedical Technology, Polytechnic University of Madrid, Spain. "Possible role of the Na⁺-K⁺-2Cl⁻ cotransporter 1 (NKCC1) of choroid plexus epithelial cells as a sensor and regulator of cerebrospinal fluid potassium concentration." 06/09/2016. Host: Professor Javier de Felipe.

Invited Symposium Speaker (July 9, 2016). Symposium "Transport Proteins and Cellular Signaling in Choroid Plexus Epithelia" sponsored by the American Physiological Society, Experimental Biology 2017, Chicago III (organized by Jeppe Praetorius, Aarhus University, Denmark and Bonnie L. Blazer-Yost, Indiana University School of Medicine, USA). To be held during The Experimental Biology Meeting in Chicago, Ill, April 22-26, 2017.

Dr. Ji Bihl

Bihl J. "Integrative Researches for Cerebrovascular Diseases", Department of Biomedical Sciences, Marshall University, September 13, Huntington, WV

Dr. Khalid Elased

Poster presentations at the American Nephrology Association Annual Meeting

Dr. Terry Oroszi

Oroszi, T., (Aug. 2016) – Domestic Terrorism Presentation, Wright State University, Beavercreek, OH. (2 sessions, AM and PM, (~100 attendees))

Oroszi, T., (April 2016). The mindset of a Terrorist. Centerville Public Library, Centerville OH. 2 hour lecture, >100 in attendance.

Oroszi, T., (March 2016). Power: Perspective, Platforms, and Paradigms., (Introducing my 4-5-6 Power Platform) WSU's Power and Leadership Staff Development Day., Wright State University, Beavercreek, OH. (2 sessions, AM and PM, (~100 attendees))

Oroszi, T., (February 11, 2016). Invited guest on behalf of the United States, United Nations Conference on Human Rights of Victims of Terrorism, United Nations Headquarters, New York.

Oroszi, T., (February 2016). Keynote speaker, Defense Institute Study and Education (IDSE) Military Supply Chain Workshop. Wright State Foundation, Wright State University, Beavercreek, OH.

Oroszi, T., (February 2016). Friends of the Library Lecture Series, Weapons of Mass Psychological Destruction (>100 attendees) Wright State University, Beavercreek, OH.

Oroszi, T., (February 2016). Americans' Participation in Islamic Extremism. 4 Hour Workshop, Advanced Technical Intelligence Center (ATIC), Beavercreek, OH.

Dr. Ravi Sahu

6th Global Summit on Toxicology and Applied Pharmacology (844th Conference) held on October 17-19, 2016 at Houston, Texas, USA

2nd International Conference and Exhibition on Antibodies on "The New Era of Antibody Research and Therapy" held on July 11-12, 2016 at Philadelphia, PA, Moderator

Dr. Richard Simman

"Are Best Clinical Practice Guidelines Worth Following?" The American College of Surgeons Annual Clinical Congress. October 17, 2016. Washington DC Convention Center.

"Pressure Wounds Management, Closure with Flaps and Grafts." The American College of Surgeons Annual Clinical Congress. October 17, 2016. Washington DC Convention Center

"Use of Esterified Hyaluronic Acid Wound Matrix in Wound Bed Preparation, a Case." Series, Fall SAWC meeting. Medline, at Carmines at Caesars Palace. October 7, 2016. Las Vegas, NV

"Role of Hyaluronic Acid Based Matrix in Wound Bed Preparation." Sixth Annual Symposium on Advancing the Standards in Wound Care and Hyperbaric Medicine. The American College of Clinical Wound Specialists and Save a leg save a Life foundation. Sinclair Community College, Dayton, Ohio. October 28, 2016

Use of Hyaluronic Acid Based Biological Bilaminar Matrix in Wound Bed Preparation. Central Research Forum, Wright State University Student Union. Dayton, Ohio, October 13, 2016

The Role of Extracellular Microvesicles in Wound Healing. Central Research Forum, Wright State University Student Union. Dayton, Ohio, October 13, 2016

A Rare Case of Cutaneous Angiosarcoma of the Lower Extremity in an Elderly Patient. The Ohio Dermatology Association meeting on September 30, 2016 in Columbus, Ohio

"Treating Chronic, Non-Healing Wounds" Wright State University, Department of Dermatology, Grand Rounds. Dayton, Ohio. February 26, 2016

Dr. Courtney Sulentic

Participant in Panel Discussions

The Career Roundtable: Opportunities in Toxicology Session. Committee on Diversity Initiatives, Society of Toxicology, New Orleans, LA, 2016

The Slow Professor: Challenging the Culture and Speed in the Academy, Wright State University, Book group moderator

Resume Workshop for Graduate and BioSTAR Students, Wright State University, Organizer and facilitator, Guest Speakers: Lisa Navarro, PhD, DABT, ERT, Givaudan Flavors Corp. and Elizabeth Cotton, Human Resources Director, Givaudan Flavors Corp.

Student Oral Presentations (*trainee presenter from Sulentic lab):

*Alfaheeda, Z., Sulentic, C. E. W.: Species differences in the effects of TCDD on a transcriptional regulatory region within the Ig heavy chain gene. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2016.

*Panstingel, N., Sulentic, C. E. W.: The effect of silver nanoparticles on human integument post thermal injury. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2016.

*Alhamdan, N., Sulentic, C. E. W.: Role of the AhR in human Ig expression and isotype switching. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2016.

*Snyder, A., Sulentic, C. E. W.: Utilizing CRISPR/Cas9 to study the immunoglobulin heavy chain 3' regulatory region. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2016.

*Crabb, G., Sulentic, C. E. W.: The effects of TCDD on Ig ϵ heavy chain expression in a plasma cell line. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2016.
Student Poster Presentations:

*Panstingel, N., Sulentic, C. E. W.: Determining the role of AhR in immunoglobulin expression using CRISPR Cas9. Toxicological Sciences, the Toxicologist, 150:1126, 2016.

*Snyder, A., Panstingel, Abdullah, S., Sulentic, C. E. W.: Reducing the number of hs1.2 invariant sequence repeats in the 3' immunoglobulin heavy chain regulatory region alters Ig expression. Toxicological Sciences, the Toxicologist, 150:1938, 2016.

*Buckner, C., Snyder, A., Abdullah, S., Sulentic, C. E. W.: Functional characterization of the polymorphic hs1.2 enhancer using CRISPR/Cas9 gene editing and nanopore sequencing technology. Ohio Valley Society of Toxicology, Eli Lilly and Company, Indianapolis, IN, 2016.

*Abdullah, S., Snyder, A., Sulentic, C. E. W.: Effect of CRISPR-mediated genetic edits of the hs1.2 enhancer on ϵ IGH expression in U266 cells. Ohio Valley Society of Toxicology, Eli Lilly and Company, Indianapolis, IN, 2016.

*Panstingel, N., Kashgari, B., Snyder, A., Sulentic, C. E. W.: Elucidating the physiological and toxicological role of the AhR in human Ig expression using CRISPR/Cas9 gene editing. Ohio Valley Society of Toxicology, Eli Lilly and Company, Indianapolis, IN, 2016.

*Alhamdan, N., Sulentic, C. E. W.: Role of the AhR in human immunoglobulin expression by evaluating interactions of the AhR with other cytosolic signaling proteins. Ohio Valley Society of Toxicology, Eli Lilly and Company, Indianapolis, IN, 2016.

Snyder, A., Sulentic, C. E. W.: Reducing the number of hs1.2 invariant sequence repeats in the 3' immunoglobulin heavy chain regulatory region alters Ig expression. Women in STEMM Leadership Institute Research Symposium, Wright State University, Dayton, OH, 2016.

*Abdullah, S., Snyder, A., Sulentic, C. E. W.: Effect of CRISPR-mediated genetic edits of the hs1.2 enhancer on ϵ IGH expression in U266 cells. Women in STEMM Leadership Institute Research Symposium, Wright State University, Dayton, OH, 2016.

*Panstingel, N., Kashgari, B., Snyder, A., Sulentic, C. E. W.: Elucidating the physiological and toxicological role of the AhR in human Ig expression using CRISPR/Cas9 gene editing. Women in STEMM Leadership Institute Research Symposium, Wright State University, Dayton, OH, 2016.

*Abdullah, S., Sulentic, C. E. W.: Effect of CRISPR-mediated genetic edits of the hs1.2 enhancer on ϵ IGH expression in U266 cells. Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, OH, 2016.

*Panstingel, N., Kashgari, B., Sulentic, C. E. W.: Elucidating the physiological and toxicological role of the AhR in human Ig expression. Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, OH, 2016.

*Alhamdan, N., Sulentic, C. E. W.: Role of the AhR antagonist in human immunoglobulin expression and interaction with other cytosolic signaling proteins. Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, OH, 2016.

*Crabb, G., Burra, K., Snyder, A., Sulentic, C. E. W.: The effects of TCDD on IgE heavy chain expression in a U266 plasma cell line. Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, OH, 2016.

*Crabb, G., Burra, K., Snyder, A., Sulentic, C. E. W.: The effects of TCDD on Ig heavy chain expression in a human plasma cell line. American Biomedical Research Conference for Minority Students (ABRCMS), Tampa, FL, 2016.

*Crabb, G., Burra, K., Snyder, A., Sulentic, C. E. W.: The effects of TCDD on IgE heavy chain expression in a plasma cell line. STREAMS/BioSTAR Poster Symposium, Wright State University, OH, 2016.

Dr. Jeffrey Travers

Colorado Dermatology Society annual meeting, Denver, Colorado. Dr. Lewis Memorial Lecturer. "Preventing aging-associated non-melanoma skin cancers by cosmetic wounding therapies: There's gold in those golden years!" May, 2016.

Society for Investigative Dermatology annual meeting, Scottsdale, Arizona. UVB generates microvesicle particles via Platelet-activating factor receptor signaling: a novel pathway by which a skin-specific stimulus exerts systemic effects. Oral presentation, May 2016.

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

Dr. Norma Adragna

Editorial Board: Cellular Physiology & Biochemistry, Karger. Switzerland.
Regular reviewer for > 20 scientific journal in my area of expertise

Dr. F. Javier 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

Ad hoc reviewer for the following journals:

Biographical Memoirs of the Fellows of the Royal Society
Frontiers in Cellular Neuroscience
Journal of Neuroscience
American Journal of Physiology (cell)
PLOS Computational Biology

Dr. Ji Bihl

Reviewer for journals: Cellular and Molecular Neurobiology (6)
Scientific Report (1)

Dr. Mauricio Di Fulvio

Ad-hoc reviewer NIH-NIDDK, Diabetes, Endocrinology, and Metabolic Diseases B Sub-Committee (DDK-B).

Dr. Khalid Elased

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".

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

Dr. Saber Hussain

Editorial Positions

Journal: NANOIMPACT, 2015-present

Professional Memberships and Affiliations

Italian Society of Nanotoxicology

Society of Toxicology

Association of Government Toxicologists

Reviewer For Journals

Toxicological Sciences, 2007-present

Toxicology Letters, 2005-present

Toxicology In Vitro, 2007-present

Journal of Toxicology and Environmental Health, 2007-present

International Journal of Nanomedicine, 2007-present

International Journal of Toxicology, 2007-present

Food Chemical Toxicology, 2007-present

International Journal of Nanomedicine, 2007-present

Langmuir, 2008-present

Nature Nanotechnology, 2008-present

Reviewer, Carbon, 2006-present

Reviewer, Journal of the American Chemical Society, 2008-present

Reviewer, Advanced Materials, 2008-present

Reviewer, PNAS, 2010-present

Dr. Ravi Sahu

I am serving as an Editorial Board Member and/or adhoc Peer Reviewer for over 45 scientific journals including Autophagy, Carcinogenesis, Cancer Growth and Metastasis, European Journal of Inflammation, International Journal of Immunopathology and Pharmacology, Journal of Cell Death, Mediators of Inflammation, Molecular Cancer Research, Oncotarget, Oncogenesis, Photochemistry and Photobiology, World Journal of Immunology, World Journal of Translational Medicine etc.

I received Travel Award from 2nd International Conference and Exhibition on Antibodies "The New Era of Antibody Research and Therapy" held at Philadelphia, PA.

Dr. Richard Simman

Chair, Sixth Annual Symposium on Advancing the Standards in Wound Care, and Hyperbaric Medicine, ACCWS. Sinclair Community College, Dayton, Ohio. Oct 28, 2016

Course Director, Back to Basic Wound Care Course, ACCWS. Sinclair Community College, Dayton, Ohio. Oct 29, 2016

Course co-director: Mentoring the Mentors, Wound Care Course. The American College of Surgeons Annual Clinical Congress, Washington DC Convention Center. Oct. 17, 2016

Dr. Courtney Sulentic

Women in Science Giving Circle Faculty Grant Awardee

Grant Review Panels

National Institute of Environmental Health Sciences, P42 Superfund Research Program, Special Emphasis Panel/Scientific Review Group ZES1 LKB (S)

Student Awards

Nicole Panstingel, Best M.S. Poster Presentation, Ohio Valley Society of Toxicology meeting, Eli Lilly, Indianapolis, IN

Nicole Panstingel, Dermal Toxicology Specialty Section Graduate Student Award, Society of Toxicology meeting, New Orleans, LA

Siham Abdullah 2nd place M.S. Poster Presentation, Ohio Valley Society of Toxicology meeting, Eli Lilly, Indianapolis, IN

Dr. Jeffrey Travers

Grant Study Sections

VA Oncology E Review Panel (chair) 12-2015

VA Promotions Committee (RCSR 1 Workgroup) 2016

NIAMS T32 Review (ZAR1 YL M1) 10-2016

Arthritis Connective Tissue, and Skin (ACTS) permanent member

-meetings 2-1016, 6-2016, 10-2016

Journal Reviewer (2016)

-Expert Review of Clinical Dermatology

-Journal of Investigative Dermatology

-Nature

-Oncotarget

Editorial Board:

Inflammation & Allergy – Drug Targets

Clinics in Oncology (Melanoma/Skin Cancer section)

Reviewer for the following Journals in 2016

Experimental Dermatology

Expert Review of Clinical Dermatology

Free Radical Biology and Experimental Medicine

Journal of Investigative Dermatology

Nature

PLOS-one

Photochemistry and Photobiology

Dr. Yongjie Xu

Proceedings of the National Academy of Sciences of USA, ad hoc reviewer

Frontiers in Cell and Developmental Biology, ad hoc reviewer

Genetics, ad hoc reviewer

6

Summary of Service Activities

Student advising

Dr. Norma Adragna

Praveen Alla, Master's Student, MS, Advisor, 2014-graduated, Fall, 2016
Joshua Stricker, MS, Advisor, 2015-2016
Vamsi A. K. Chandu, MS, Advisor, 2015-present
Nedu C. Ihezurike, MS, Advisor, 2015-present
Aprana K. Poluparthi, MS, Advisor, 2016-present
Chandra Maharjan, MS, Co-Advisor, 2014-2016, graduated 2016
Joshua Stricker, MS, Co-Advisor, 2016-present
Lamai Abdulrahman Alsulaiman, MS, Co-Advisor, 2015-2016
Gousia Begum, MS, Co-Advisor, 2016-present
Nedu C. Ihezurike, MS, Rotation Advisor, 2016
Aprana K. Poluparthi, MS, Rotation Advisor, 2016
Gousia Begum, MS, Rotation Co-Advisor, 2016
Faten bin Dayel, MS, Rotation Advisor, 2016
Shesha Lakshmi Arathi Paluri, BMS Student, Committee Member, 2011, 2013-present
Terry L. Oroszi, EdD Degree, Committee Member, 2016
Shrouq Almaghrabi, MS, Advisor, Fall 2016
Thulasi Ram Konduru, MS, Advisor, Fall 2016
Sachchida Subedi, MS, Advisor, Fall 2016
Srinivasula Reddy Chinnapareddy, MS student, Advisor, Spring, 2016
Sahasini S.S. Perumalla, MS student, Advisor, Spring, 2016

Dr. F. Javier Alvarez-Leefmans

Vishal Faldu, MS Electrical Engineering, trained on quantitative analysis of digital imaging
Jeannine Crum, PhD, 9th year, BMS
Aaron Madaris, MS Biomedical Engineering.

Dr. Ji Bihi

Katherine Fahy, master student, project "Thermal Injury Induced Release of MVPs from Keratinocytes", 2015-2017 (Mentor: Jeffrey Travers)
Sayali Dharmadhikari, MS Student, 2014-2016 (Mentor: Adrian M. Corbett)

Dr. Yanfang Chen

Qinmao Ye, MS, thesis director, 2016-present
Jinju Wang, PhD
Xiang Xiao, PhD
Yue Wang, visiting scholar
Qian Cheng, visiting scholar
Apri Arnold Daubenspeck, PhD thesis committee
Abdelfatah Abou Issa, MS, thesis committee, graduated 2016

Dr. David Cool

Ravina Ashtapure, MS, thesis director Graduated 2016
Faten Bin Dayel, MS, Advisor-leadership
Anas Sergiwa, MS, Advisor-leadership
Bishal Marasini, MS, Advisor-leadership
Walid Mari, MS, thesis committee, projected graduation 2016
Abdelfateh Abou Issa, MS, thesis committee, graduated 2016
Siham Abdul, MS, thesis committee, projected graduation 2016
Katy Fahey, MS, thesis committee, projected graduation 2017
Brian Stogsdill, PhD, thesis committee, projected graduation 2017

Mahmoud Alghamri, PhD, thesis committee, graduated 2016
Yirong Zhou, PhD, thesis committee, projected graduation 2018
Jenny Jurcsisin, PhD, thesis committee, projected graduation 2019

Dr. Khalid Elased

Rucha Fadnavis, MS, thesis director projected graduation 2017
Ravina Milind Ashtaputre, MS, thesis committee, graduated 2016
Xiang Xiao, PHD, thesis committee, projected graduation 2017

Dr. Saber Hussain

Shar Qureshi, MS, thesis director
Lt. Behm, MS, thesis director
Nicole Panstingel, thesis committee
Eight (8) summer students conducted summer rotation/internship

Dr. Terry Oroszi

Fall 2015 MS Students (Second year):

Alabdrabalnabi, Eman
Andijani, Yusra
Khan, Aiman
Momenah, Tahani
Subedi, Sachchida
Almutairi, Fahdah
Chinnapareddy, Srinivasula
Egbai, Paulet
Greene, Matthew
Ihezurike, Nedu
Karri, Bala
Kassem, Sara
Kumbaji, Meenasri
Law, Rebecca
Law, Sarah
Motharapu, Rajitha
Sen, Ebru
Sharma, Shriya
Sheela, Suhasini
Tabal, Najib
Timmisetty, Muralikrishna
Tosun, Amanda
Younes, Marwa
Zhang, Cheng

Fall 2016 MS Students (First Year):

Hawra Al Khlaiteet
Shrouq Almaghrabi
Haya Alrajeh
Tahani Alshammari
Faten Bin Dayel
Sanjeev Dhakal
Rupinder Gill
Sindhu Kommareddy
Thulasi Konduru
Purna Koppu
Wedad Mawkili
Sowmya Podduturi
Mohammed Samee
Thesis Director
Dr. Ravi Sahu
Jeremiah Saylee, MS, projected graduation 2017
Bishal Maracini, MS, projected graduation

Dr. Richard Simman

Sami Gamaledin, MS, 2015-present
Sani Sabri, 2016-present
Walid Mari, MS, projected graduation 2017

Dr. Courtney Sulentic

Andrew Snyder, BMS, PhD, thesis director, defended spring 2016
Rebecca Law, MS, non-thesis research project, graduated 2016
Zahra Jassim Alfaheeda, Microbiology/Immunology M.S., thesis director, defended spring 2016
Nicole Panstingel, Pharm/Tox M.S., thesis director
Siham Abdulla, Pharm/Tox M.S., thesis director
Nasser Alhmdan, Microbiology/Immunology M.S., thesis director
Clayton Buckner, Microbiology/Immunology M.S., thesis director
Jennifer Rubio, visiting intern from Cal Polytech, summer 2016
Amanda Hanes (BMS representative), BMS, Ph.D., thesis committee
Sumeet Poudel, BMS, Ph.D., thesis committee
Kevin Novak, (BMS representative), BMS Ph.D., thesis committee
Tu Thien Danh, BMS Ph.D., thesis committee
Sumeet Poudel, BMS Ph.D., thesis committee
Todd Lewis, BMS Ph.D. (BMS representative), thesis committee
Denise Kramer, BMS Ph.D., thesis committee
Caitlin Persin, Microbiology/Immunology M.S., thesis committee, defended summer 2016
Mary Thompson, Microbiology/Immunology M.S., thesis committee, defended summer 2016

Dr. Jeffrey Travers

Katherine Fahy, MS, thesis director, projected graduation 2018
Langni Liu, PhD, thesis director, 2016-present
Walid Mari, MS, thesis committee, projected graduation 2017
Nicole Panstingel, thesis committee, projected graduation 2017
Chien Poon, thesis committee, projected graduation 2017
Xiao Zhang, PhD, thesis committee, 2015-present
James Readler, PhD, thesis committee, 2015-present
Prakash Arumugan, MD/PhD, thesis committee, 2015-2016, graduated
Ann Collier, PhD at Indiana University, thesis committee, 2013-present

Dr. Yongjie Xu

Hongbin Dong, PhD fellow
Michal Wozniak, PhD fellow
Raisa Siddique, undergraduate
Merlyn Jeanty, STREAMS, SUNY College at Oneota, New York
Sumeet Poudel, BMS/PhD student
Todd Lewis, BMS/PhD student
Marcus T. Grant, MS student, BMB
Elliot Hayden, MD/PhD student, COSM

Committee membership/officer [indicate if committee chair]

Wright State University Boonshoft School of Medicine (or college name)

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

Dr. Norma Adragna

P&T Faculty Affairs and Development Committee 2000-March 2013, 2015-present, Chair.
P&T Scholarships committee, 2013-2015, chair; 2015-present.
Morris Symposium, Organizing Committee Member, 2013-present

Dr. F. Javier Alvarez-Leefmans

Member, Faculty Affairs & Development Committee, Pharm/Tox
Faculty Senator, BSOM Constituency for 2015-2017 Academic years.
Member, Research Committee for the Office of Research Affairs, BSOM. Elected 2015-2017.

Dr. David Cool

Faculty Promotion and Advancement (FPAC) Committee, 2014-2016

Dr. Khalid Elased

Student Advising, MS, Pharm/Tox, 2016
WrightQ writing group, BSOM

Dr. Terry Oroszi

Faculty Senate Ad Hoc Committee, International Education
Ad Hoc Retreat Committee: Mentor and Marketing, Pharm/Tox
Ad Hoc Retreat Committee: Curriculum, Pharm/Tox
Ad Hoc Committee: Retreat Follow-up, Pharm/Tox
Applications Committee, Pharm/Tox
Retreat Facilitator/Emcee Department Education Retreat, Pharm/Tox

Dr. Ravi Sahu

Student Scholarship Committee, Pharm/Tox
Admissions Committee, Pharm/Tox

Dr. Courtney Sulentic

Research Committee, elected member, BSOM, 2014-2016
Faculty Curriculum Committee, BSOM, 2013-2016
Curriculum Development, Foundation of Clinical Medicine Subcommittee
LCME re-accreditation subcommittee 4, Ed. resources and infrastructure and Curricular content, 2015-2016
Executive Committee, elected member, BSOM, 2014-2015
Pathobiology and Therapeutics Steering Committee, BSOM
Medical Student Research Symposium Poster Judge, BSOM
Faculty Affairs and Development Committee (FADC), Pharm/Tox
Faculty Work Equity Committee, Pharm/Tox
Dr. Jeffrey Travers
BSOM Executive Committee
Dean's Research Chairs Committee
LCME Curriculum Committee

Wright State University

Dr. Norma Adragna

Women in Sciences Giving Circle Faculty Awards Committee, 2015-present.

Dr. F. Javier Alvarez-Leefmans

Alternate Member. Laboratory Animal Care and Use Committee (LACUC).
Member, IACUC appointed by the Department of Veterans Affairs. Term 01/15/15 through 12/31/17.
Committee Member, appointed by Provost Thomas A. Sudkamp
Member, Confidential Research Misconduct Investigation Committee RSP-NSF.
Member, Biomedical Sciences PhD Program Admissions Committee. 2014-2016

Dr. David Cool

BioMedical Sciences Program (BMS) Admissions Committee, 2015- present
BioMedical Sciences Program (BMS) Integrative Toxicology Track, 2015- present
Workload Equity & Merit Committee (Pharm/Tox), 2015-present
Comprehensive MS Program Review Committee Pharm/Tox), 2015-present
Faculty Affairs and Development Committee, 1998-present
Faculty Senate Pre-requisite Check Committee (WSU), 2015-2016

Dr. Mauricio Di Fulvio

Students Admission's Committee, Pharmacology & Toxicology, BSOM
Scholarship Committee, Pharmacology & Toxicology, BSOM
Nomination Committee, BMS Program

Dr. Ravi Sahu

Institutional Animal Care and Use Committee (IACUC)
Institutional Biosafety Committee (IBC)

Dr. Courtney Sulentic

Women's Peer Mentoring Group, initially supported by the NSF-funded LEADER Program at WSU

Radiation Safety Committee, 2005-present; Chair, 2013-present
Academic Policies Committee, appointed member, 2016-2017
Women in Science Giving Circle member and Women in STEMM Leadership Institute Mentor

Dr. Jeffrey Travers

Graduate Program Academic Policies Committee

Wright State Physicians

Dr. Jeffrey Travers

Laboratory Committee, WSP

Hospital or affiliated institution [name]

Dr. David Cool

OB/GYN Translational Reproductive Health Research Grant Committee, 2014- present
Judge- MVH Resident Research Day- OB/GYN, 2005-present

State

Dr. Norma Adragna

Poster Judge, Ohio Valley Society of Toxicology, Annual Meeting, Indianapolis, IN, October 28th, 2016.
Poster Judge, Ohio Physiological Society 31st Annual Meeting, Ohio State University, Columbus OH, November 19, 2016.

Dr. Saber Hussain

Affiliated mentor for Dayton Area Graduate Studies (DAGSI)

Dr. Ravi Sahu

Choose Ohio First Proposals, Department of Higher Education, reviewer

National

Dr. Norma Adragna

Session Chair, 11TH International Congress, Cell Volume Regulation and fluid Homeostasis: Implications for Hydration and Nutrition in Health and Disease, Chicago, IL, August 15, 2015.

Dr. F. Javier Alvarez-Leefmans

Ad Hoc Reviewer of Grant application for the Medical Research Council, UK.

Dr. Mauricio Di Fulvio

Advisory Committees. Study sections of 1) Molecular and Cellular Endocrinology, and 2) Membrane Transporters and Receptors. National Agency for the Promotion of Science and Technology, Buenos Aires, Argentina.
Basic cell genetics and epigenetics (GE) 3 Peer Review Study Group, American Heart Association (AHA)

Dr. Khalid Elased

AHA High Blood pressure Council Conference Review Committee
Appointed delegate of WSU BSOM to the United States Pharmacopeia (USP) Convention.

Dr. Terry Oroszi

Homeland Security Information Network
NBC Industry Group (Washington, D.C.)

Dr. Ravi Sahu

Review manuscripts and perform editorial services for various national and international scientific journals.

Dr. Richard Simman

Dayton Think Tank: Crisis/Threat/Disaster/Emergency Management Team, 3/2016 - present
Journal of Surgery and Operative Care. Editorial Board, 1/15 – present

Review Board, Journal of Saudi Medicine, 2013- present
Editor in Chief, Journal of the American College of Certified Wound Specialists, 10/09 - present
Editorial Board, Annuals of Plastic Surgery, 4/09 - present
Chair, Board Examination Committee for Physicians(CWSP), The American Academy of Wound Management
Board Examination in Wound Care, 1/08 – present
Member of the Medical Science Monitor International Reviewers Panel (IRP), 2006 – present

Dr. Courtney Sulentic

Awards Committee, elected member, co-Chair, Society of Toxicology
Undergraduate Strategy Work Group/Task Force, appointed member, Society of Toxicology
Mentor Match program, Society of Toxicology, Alicia Taylor, PhD, Post-doc at Univ. of California, Berkeley
Invited Expert, Colgate-Palmolive Luncheon, SOT Annual Meeting
Ad-hoc reviewer for several journals

Dr. Jeffrey Travers

Member, Advisory Board, Christian Doppler Laboratory on Biotechnology of Skin Aging, Department of Biotechnology, BOKU-University of Natural Resources and Life Sciences, Vienna, Austria (2014-present).

Other

Dr. F. Javier Alvarez-Leefmans

Member of the Stanley Allyn Society. (11/17/16) The Heritage Societies Wright State University. The Stanley Allyn Society recognizes cumulative giving of \$25,000.00 and is named in honor of Stanley Allyn, one of the founders of Wright State University

Dr. David Cool

NIH R21 AR070010, Sulentic/Travers (PI), Funded Consultant, 2016-2018
Director of the Proteome Analysis Laboratory- UnPaid Position, 2004-present

Collaborations & Consultants

Dr. Ray Bahado-Singh, Beaumont Health Research Center, MI., Proteomics, 2016- present
Dr. Steven Lindheim OB/GYN Neu(5)GC in Infertility, 2015- present
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. 2014-present
Dr. Steven Lindheim OB/GYN, Polycystic Ovary Syndrome, 2014- present
<http://clinicaltrials.gov/ct2/show/study/NCT01487486>
Dr. Jerry Yaklic, OB/GYN, Translational research of OB/GYN diseases, 2013-present
Dr. Larry Arlian & Dr. Marge Morgan WSU Biology Dept Scabies: Biology, Culture, Host Specificity and Antigens 2011- present
Dr. Matthew Peterson (Lifespan) Aging, Exercise and diet. 2015- present
Dr James Olson- (Emerg. Med) Biomarkers of Stroke damage. 2007- present
Dr Miryoung Lee- (Lifespan) Analysis of biomarkers of dieting, 2013- present
Dr. John Miller & Dr. Lucy Wrenshall- NCBP & Dept of Surgery- Purification of IL-2 and analysis of dimerization 2011-present
Dr. James Olson- Emergency Medicine & NCBP Osmotic Regulation of the Neuronal Taurine Transporter. Ongoing Research Project, 2003- present
Dr. Mike Hennesy- Dept of Psychology, Wright State University- NSF Grant Application “Mechanisms mediating social buffering of hypothalamic-pituitary-adrenal responses”, 2010-present
Dr. Gary Ventolini, Biomarkers of Vulvodynia, MVH Dept of OB/GYN MFM 2008- present

Dr. Yanfang Chen

Study Section, American Diabetes Association (ADA), 2016
Ad Hoc member, National Institute of Neurological Disorders and Stroke (NINDS), 2016
Oversea Reviewer, National Natural Science Foundation of China (NSFC), 2016
Guest Editor, Stem Cell International, 2016
Abstract grader for Annual Scientific Conference of American Heart Association, 2016
Editorial board for journals: America Journal of Cardiovascular Disease, CNS; Neurosciences and Therapeutics, World Journal of Hypertension

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
Member of the Journal of Nephrology Research

Scientific Society

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)
Delegate of the WSU BSOM to the United States Pharmacopeia

Dr. Saber Hussain

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

Plan to consider for 1 MS students from Pharm/Tox. Currently two MS Student (Shar Qureshi and Lt Behm)) is working in nanotox area. Collaborative project is under discussion in collaboration with Dr Jeffrey Travers- "PAF modulation and inflammation response in skin cells during NPs exposure"

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

Working with Dr Terry Oroszi to establish collaboration between AFRL and WSU through different programs

Discussing with Dr Simons for collaborative project – there is potential PhD student may work in this project.

Dr. Terry Oroszi

Belgium Military, consultant on crisis decision making.

Subject matter expert, Society for the Advancement of Disaster Nursing (SADN)

Sept. 20, 2016: Dayton Daily News, Front page and WHIO radio. "Instilling Fear is goal of attacks expert says"
<http://ireader.olivesoftware.com/Olive/iReader/DaytonDailyNews/SharedArticle.ashx?document=DDN%5C2016%5C09%5C20&article=Ar00103>

July 19, 2016: TV/NEWS. CREATION OF A DAYTON THINK TANK - Dayton Think Tank Crisis, Threat, Disaster & Emergency Management, Dayton's top leaders... Fox 45, Dayton Ohio

July 8, 2016: TV/NEWS. DALLAS SHOOTING, ACT OF TERROR? ABC WCPO Dallas Sniper, as an expert on terrorism, two different TV broadcasts from one interview.
<http://mms.tveyes.com/Transcript.asp?StationID=2045&DateTIme=7%2F8%2F2016+6%3A02%3A30+PM&Term=Wright+State&PlayClip=TRUE>

March 19, 2016: TV/NEWS. CLOSING OF GITMO -<http://fox45now.com/news/fighting-back> also on <http://abc22now.com/news/fighting-back/guantanamo-transfers-could-end-up-in-the-us>

Feb. 5, 2016: Newsprint WMPD BOOK - http://muscatinejournal.com/news/local/muscatine/muscatine-native-examines-the-psychological-impact-of-terrorist-attacks/article_c56d8042-ebbc-57ab-b601-27fa5752d71f.html

Jan. 19, 2016: Newsprint. WMPD BOOK - <http://www.mydaytondailynews.com/news/news/local-military/biggest-impact-of-terrorist-attacks-fear/np7x8/>

Jan 15, 2016: TV/NEWS. Fox19 Morning Show - "Weapons of Mass Psychological Destruction" goes deep inside the mind of the psychological terrorists. Full interview on YouTube:
<https://www.youtube.com/watch?v=MfX4bJGpAD8&feature=youtu.be>

Jan. 11, 2016: Newsprint. WMPD BOOK - <http://webapp2.wright.edu/web1/newsroom/2016/01/11/wright-state-experts-publish-book-on-weapons-of-mass-psychological-destruction/>

Executive Director, Simman Wound Fellowship Board

Founder, Dayton Think Tank (Membership includes 4 local Mayors and several Dayton govt leaders, 2 WPAFB Colonels, UD, WSU, and Industry experts)

CEO, TRAC Consulting Group, (includes members identified as experts from FBI, Govt, Military, and Academics)

Dr. Yongjie Xu

Alex Xu, summer research, Centerville high school student

7

Patient Care Summary

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

Dr. Richard Simman

Kettering Medical Center, Dayton, Ohio – active
Sycamore Hospital, Miamisburg, Ohio – active
SOIN Medical Center, Dayton, Ohio – active
Good Samaritan Hospital, Dayton, Ohio – active
Good Samaritan North Health Center, Dayton, Ohio – active
LifeCare Hospital, Miamisburg, Ohio – active
Kindred Hospital, Dayton, Ohio – active

Dr. Jeffrey Travers

Dermatology Clinics
-Weekly dermatology clinic at WSP clinic in the WSU Department of Dermatology
-Weekly dermatology clinic at Dayton VAMC

8

Honors and awards [Faculty or staff]

Dr. Mauricio Di Fulvio

Research showcased as best images in endocrinology and his image is on the cover of Journal of Endocrinology, January 2016.

Dr. Terry Oroszi

Represented the USA at the United Nations Workshop on Terrorism

Dr. Courtney Sulentic

Received the Ohio Valley Society of Toxicology Distinguished Service Award and was elected to the Society of Toxicology Awards Committee.

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. Norma Adragna

Invited P&T seminar guest speakers:

Dr. Martha E. O'Donnell, Ph.D., Professor, Dept of Physiology and Membrane Biology, University of California.

Dr. V. Gustavo Blanco, M.D., Ph.D., Professor, Kathleen M. Osborn Chair, Dept of Molecular & Integrative Physiology, University of Kansas Medical Center.

Member of 10 Scientific Societies.

Reviewer of > 20 Scientific Journals.

Development of new field of research.

Preparing new courses in my field of expertise, old and newly acquired.

Dr. Yanfang Chen

Master's Program Admission Committee

Master's Program Scholarship Committee

Dr. David Cool

Editorial Board, Interdisciplinary Toxicology, 2014-present

Editorial Board, Journal of Environmental Immunological Toxicology, 2012-present

NIH CounterAct Study Section Member Molecular, Cellular & Developmental Neurosciences Integrated Review Group. R21 Study Section Reviewer (07/08/16).

CDMRP-DOD Gulf War Illness Epidemiology & Biomarkers Grant Review Panel (January 6-8, 2016)

Dr. Terry Orozi

Nominated into the Homeland Security Information Network.

NBC Industry Group Washington DC (WSU is the only academic institution).

Annual Dayton MMRS Steering Committee meeting (Restricted due to topics).

Dayton Think Tank (Crisis, Threat, Emergency and Disaster Management).

High Stakes Decision-making presentation at SAFE Symposium.

WSRI Meeting to discuss the creation of a Center of Excellence in Homeland Security and Terrorism.

Attended a mandatory counterintelligence briefing (WPAFB).

Power Platform 2 hour workshop for INFORMS Engineering Symposium.

Led a Terrorism Case Studies 3 hour Workshop for Advanced Technical Intelligence Center (ATIC) Analyst Bootcamp.

Power Platform 2 hour workshop for Advanced Technical Intelligence Center (ATIC) Analyst Bootcamp.

Led a Terrorism 4 hour Workshop for Advanced Technical Intelligence Center (ATIC) Analyst Bootcamp.

Power Platform workshop for BioStar Students.

Terrorism Workshop specific to Dayton, Oakwood, and Cincinnati Police, 4 hours.

Mindset of a Terrorist, terrorism workshops (am & pm for WSU Staff employees.)

WSRI Meeting to discuss the creation of a Center of Excellence in Homeland Security and Terrorism.

WDTN/FOX 45 TV News interview.

One of the leads for an Active Shooter Scenario involving VA/Dayton/Fairborn Police, SWAT, Hostage

Negotiations.

TV interview, Dallas Shooting. Terrorism.

FBI Biosecurity workshops, one of the leads.

Led a 4 hour Terrorism Workshop for Advanced Technical Intelligence Center (ATIC) Analyst Bootcamp.

Abstract for OSHA Grant submitted.

Abstract for SAFEASSOCIATION National Meeting (military) submitted.

FBI Chemical/Explosive training, invited to participate (and blow things up!)

MedBiquitous Conference, Implementing Provider, Patient: Provider and Patient Facing Interventions in a Virtual Environment Johns Hopkins, Baltimore.

Invited Speaker Centerville Public Library, terrorism, >100 people in attendance.

Rotary Club invited speaker, terrorism.

Meeting with Dayton Mayor on Think Tank and 4/5/6 Power Platform.

Awarded a Doctorate Degree, Dissertation topic "High Stakes Decision-Making"

Fox 45/ABC 22 TV interview on the closing of Guantanamo Bay Prison (GITMO), Cuba.

Attended FBI brief on Homegrown Terrorism

Presented 2 workshops to the Staff Development day (total 92 attendees) 4/5/6 Power Platform.

Muscatine, IA Journal Published Article "Muscatine Native Examines the Psychological Impact of Terrorism."

Invited guest on behalf of the United States, United Nations Conference on Human Rights of Victims of Terrorism, United Nations Headquarters, New York.

Keynote speaker, Defense Institute Study and Education (IDSE) Military Supply Chain Workshop.

Presented a half day workshop on domestic terrorism for ATIC Analysis Bootcamp Students looking to get into the intelligence arena.

Led a lecture (100+ attendees) on the psychology behind the use of WMDs and terrorism.

Attended an international conference on simulations, WSU took home an award (#1) on Sim games; VA

SimLEARN was #2. Workshops attended included 2 on qualitative methods some used in this research, and TED talks.

Dr. Ravi Sahu

Faculty Judge, Resident research forum at Wright State University

Dr. Jeffrey Travers

Direct the Pharmacology Translational Unit which conducts translational human studies (funded by NIH and VA), as well as pharmaceutical company sponsored studies.

Dr. Yongjie Xu

Member, Pharm/Tox MS program marketing committee

Member, Curriculum committee, BMS PhD program