



Department of/Office of Pharmacology &
Toxicology

Annual Report

January 1, 2017-June 30, 2018

Jeffrey B. Travers, MD, PhD
Chair of Pharmacology & Toxicology
Professor of Dermatology
Staff Physician, Dayton VA Medical Center

For the period including
January 1, 2017 — December 31, 2017

1

Statement from the Chair/Associate Dean

[Highlights of the year limited to 500 words]

The Department of Pharmacology & Toxicology continues to move forward in positive fashion on the educational, investigative and service fronts. 2017 has been a very good year for the Department due to the winning combination of a hard-working diverse faculty, improving infrastructure, and the cohesion found in our group.

The MS program overall has achieved modest growth, and in 2017 the Program admitted 35 students. In addition, the MD-MS program has been re-vamped to fit with the changes in the medical school curriculum. With the new curriculum, seven students applied, and we accepted five to start summer 2018. The MD-MS program is starting to have an impact in the BSOM, with six posters presented by our MD-MS students at the 10th Annual Medical Student Research Symposium.

As a way to equally distribute the teaching load in the department, we have established minimal faculty teaching standards of 3 classes per year. To take advantage of the very high faculty to student ratio, the Department has developed a plan that each student is assigned a faculty mentor and they are to meet twice a year. In addition to that support, students have program meetings with the director and assistant director of the program. In addition, we continue to produce a departmental newsletter three times a year that highlights faculty, staff, and student accomplishments.

Dr. Ji Bihl was promoted to Assistant Professor from Research Assistant Professor.

Dr. Michael Kemp as hired as Research Assistant Professor.

Dr. Yong-ji Xu was promoted to Associate Professor in July 2017 and Dr. Mauricio Di Fulvio will be promoted to Associate Professor in July 2018. Dr. Sulentic has been elected as a counselor for the Society of Toxicology. Drs. Cool, Chen, and Travers all serve on extramural grant review panels.

At present, 8 of the 12 faculty are either funded by or are submitting extramural grant proposals. The most recent being Dr. Di Fulvio with an ADA three year grant, and a three-year NIH R21 and Dr. Ji Bihl with grants from AHA, ADA, and an NIH R21.

We are investing and expanding our departmental cores: Proteomics, Pharmacology Translational Unit, and the Preclinical Pharmacology core.

The Proteomics Core received a new bioimaging platform to add to the present equipment.

Regarding the Pharmacology Translational Unit, we currently have seven active pharmaceutical industry sponsored trials ranging from atopic dermatitis to a melanoma vaccine. The PTU also has open IRB protocols for ~10 different translational studies funded by the NIH or VA. To help support that unit, we have a director, an MA coordinator, and a regulatory specialist, and share a nurse practitioner with the WSU Department of Family Medicine.

Lastly, our department will continue to collaboratively work with each other and other faculty at Wright State University.

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, PhD	2003-present
Proteome Analysis Laboratory	David Cool, PhD	2004-present
Master's Program	Terry Oroszi, EdD	2008-present
Nanotoxicology Research	Saber Hussain, PhD	2010-present
CBRN Certificate Program	Terry Oroszi, EdD	2013-present
Therapeutics Curriculum	Mary Jo Trout, PharmD	2013-present
Training Program (BioSTAR, GradPrep)	Courtney Sulentic, PhD	2015-present
Preclinical Pharmacology Core	Yanfang Chen, MD, PhD	2015-present
Pharmacology Translation Unit (PTU)	Jeffrey Travers, MD, PhD	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, PhD, Professor		Cardiovascular, ion transport, cell signaling, cellular physiology, membrane transport, cancer biology
F. Javier Alvarez-Leefmans, MD, PhD, Professor		Neuroscience, molecular physiology & pharmacology, clinical neurology
Ji Bihl, MD, PhD, Assistant Professor		Cerebrovascular diseases and diabetes, specifically in developing novel predictive and therapeutic avenues for hemorrhagic stroke and vascular complications of diabetes
Yanfang Chen, MD, PhD, Professor Director, Preclinical Pharmacology Core		Cardiovascular disease, cerebrovascular complications
David Cool, PhD Director, Proteome Laboratory		Cellular mechanisms involved in neurodegeneration and

Name and Academic Position	Clinical Interests	Research Interests
		neuroinflammation in response to diseases and chemical toxicity. Proteomic and genomic changes in response to endocrine diseases. Developing protocols and facilities for proteome, lipid and carbohydrate analysis.
Mauricio Di Fulvio, PhD, Assistant Professor		Diabetes
Khalid Elased, PhD, PharmD, Professor		Diabetes, cardiovascular
Saber Hussain, PhD, Professor		Nanoparticles
Mike Kemp, PhD, Research Assistant Professor		How human cells maintain the integrity of their genomic DNA, particularly in response to environmental genotoxins such as ultraviolet (UV) light.
Terry Oroszi, EdD, Assistant Professor Director, MS Graduate Program Director, CBRN Defense Certificate Program Co-chair EMDP Advisory Board		Group decision making and meeting behaviors
Ravi Sahu, PhD., Assistant Professor		Cancer pharmacology
Courtney Sulentic, PhD, Associate Professor		Immunology
Mary Jo Trout, PharmD, Assistant Professor Director, Therapeutics Curriculum	Medical training, therapeutics curriculum	
Jeffrey Travers, MD, PhD, Professor and Chair Pharm/Tox Professor of Dermatology Staff Physician, Dayton VA Medical Center	Translational medicine	Skin inflammation/cancer, lipid pharmacology
Yong-jie Xu, MD, PhD, Associate Professor		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
Justine Deeter, WSU, Biology

Dr. Yong-jie Xu

Students:

(2) Biology undergrads

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

Dr. Norma Adragna

PTX 7022, Effective Scientific Writing, Part 1, Co-Director
PTX 7002, Effective Scientific Writing, Part 2, Director

Thesis Director:

Vamsi A. K. Chandu, MS, 2015-2017, graduated 2017
Nedu C. Ihezurike, MS, 2015-2017, graduated 2017
Aparna K. Poluparthi, MS, 2016-present
Raisa Siddique, MS, 2017-present

Thesis Co-Director:

Joshua Stricker, MS, 2016-present
Gousia Begum, MS, 2016-present
Praveen Alla, PhD, 2017-present

Thesis Advisory Committees:

Shesha Lakshmi Arathi Paluri, BMS Student, Committee Member, 2013-2017
Kelsey L. Hood, MS, Department of Chemistry-COSM, 2017-present

Lab Rotation:

Raisa Siddique, MS 2017
Rittu Samuel, MS, 2017

Dr. F. Javier Alvarez-Leefmans

PTX 7022, Effective Scientific Writing, Part 1, Director
PTX 7002, Effective Scientific Writing, Part 2, Co-Director

Students:

Aaron Madaris, MS Biomedical Engineering

Thesis Advisory Committees:

Jacob Adam Vincent, MD/PhD
Pavani Beesetty, BMS/PhD, defend thesis 2018

Dr. Ji Bihl

PTX 8000, Cell Culture Training, Spring, Director
PTX 8000, Cell Culture Training, Summer, Director
PTX 8070, Cell Culture Training, Fall, Director
PTX 7002, Journal Club, Fall, Director

Thesis Director:

Manasi Halurkar, MS, 2017

Lab Rotation:

Sayali Kadam, MS 2017
Unmesha Thanekar, MS, 2017
Pariksha Thapa, MS, 2017
Sonia Mangera, MS 2017
Azadeh Nakisa, MS 2017

Dr. Yanfang Chen

Thesis Director:

Qinmao Ye, MS, 2017

Dr. David Cool

PTX 7020, Laboratory Management, Classroom, Director
PTX 7500, Research Techniques, Director
PTX 7021, Effective Scientific Writing, Part 1
PTX 7021, Effective Scientific Writing, Part 2
BMS 805, Intercellular Communication, 4 hours

Advisor, Leadership:

Faten Bin Dayel, MS, graduated 2018
Ariel Molnar, MS, proj graduation 2018

Thesis Advisory Committees:

Walid Mari, MS, graduated 2017
Siham Abdul, MS, graduated 2017
Katherine Fahey, MS, graduated 2017
Gousia Begum, MS, proj. graduation 2018
Brian Stodgill, BMS/PhD, proj. graduation 2018
April Daubenspeck, BMS/PhD, co-advisor, graduated 2017
Yirong Zhou, BMS/PhD, proj. graduation 2018
Jenny Jurcsisin, BMS/PhD, proj. graduation 2019
Raji Santhanakrishnan, BMS/PhD, proj. graduation 2020
Prithy Martis, BMS/PhD, proj. graduation 2020
Todd Lewis, BMS/PhD, graduated 2017
Soham Parikh, BMS/PhD, proj. graduation 2020

Dr. Mauricio Di Fulvio

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

Dr. Khalid Elased

PTX 7001, Cellular Pharmacology & Toxicology, Co-Director
PTX 7022, Effective Scientific Writing 2, Co-Director
PTX 9021, Effective Scientific Writing 1, Co-Director

Thesis Director:

Rucha Fadnavis, MS, graduated 2017
Unmesha Thanekar MS, proj graduated 2019
Aparna K. Poluparthi, MS, 2016-present
Raisa Siddique, MS, 2017-present
Leonid M Yermakov, MD/PhD

Advisor/Lab Work Leadership Students:

Rupinder Gill, MS, proj. graduation 2018
Sanjeev Dhakal, MS, proj. graduation 2018

Dr. Saber Hussain

PTX 8130, NanoMedicine, Director
PTX 7110, Journal Club, Director

Thesis Director:

Shar Qureshi, MS, proj. graduation 2018
Lt Robert Boehm, MS, graduated 2018
Aparna K. Poluparthi, MS, 2016-present
Raisa Siddique, MS, 2017-present

Advisor Leadership Students:

Ariel Molnar, MS, proj. graduation 2018
Madeline DeBrosse, MS, proj. graduation 2018

Dr. Mike Kemp

PTX 6002, Cell Biology, assisted online course director

Thesis Director:

Kavya Shaj, MS, proj. graduation 2019

Dr. Terry Oroszi

PTX 7022, Effective Scientific Writing, Part 2, spring 2017
PTX 8000, Independent Study, spring 2017
PTX 8000, Leadership: Theory and Application, spring 2017
PTX 8140, Human Studies Research, spring 2017
PTX 7021, Effective Scientific Writing, Part 1, summer 2017
PTX 7022, Effective Scientific Writing, Part 2, summer 2017
PTX 8000, Independent Study, summer 2017
PTX 8000, MD/MS Capstone, summer 2017
PTX 8004, Applications to Medical Chem Rad, Nuc, summer 2017
PTX 8005, Applications to Medical Biological Defense, summer 2017
PTX 8006, Case Studies for CBRN Defense, summer 2017
PTX 8140, Human Studies Research, summer 2017
PTX 7012, Introduction to Research, fall 2017
PTX 7021, Effective Scientific Writing, Part 1, fall 2017
PTX 8000, Selected Topics, Pharmacology, fall 2017
PTX 8000, Leadership: Theory and Application, fall 2017
PTX 8006, Case Studies for CBRN Defense, fall 2017
PTX 8140, Human Studies Research, fall 2017

Student Advising Leadership:

Hawra Al Khlaiteet, MS, graduated 2018
Shrouq Almaghrabi, MS, graduated 2018
Haya Alrajeh, MS, graduated 2018
Sanjeev Dhakal, MS, proj. graduation 2018
Rupinder Gill, MS, proj. graduation 2018
Faten Bin Dayel, MS, graduated 2017
Sindhu Kommareddy, MS, proj. graduation 2018
Thulasi Konduru, MS, proj. graduation 2018
Purna Koppu, MS, proj. graduation 2018
Wedad Mawkili, MS, graduated 2017
Sowmya Podduturi, MS, graduated 2017
Mohammed Samme, MS, proj. graduation 2018

Co-Advisor MD/MS Students:

Larilynn Yelton, 2015-2018, graduated 2018
Casey Walk, 2015-2018, graduated 2018
Andrew La'Pelusa, 2016-present
Jude Khatib, 2017-present
Jaree Naqvi, 2017-present
Benita Wu, 2017-present
Michael Williams, 2017-present

Thesis Advisory Committees:

Robert Boehm, MS, 2017, graduated 2018
Sami Alsabri, MS, 2015-2017, graduated 2017

Doctoral Advising/Co-advisor:

Michele Miller, PhD, 2017-present

Dr. Ravi Sahu

PTX 7021, Effective Scientific Writing 1, fall 2017

Thesis Director:

Sayali Kadam, MS, proj. graduation 2019

Advisor/Lab Work Leadership Students:

Mugdha Jaitpal, MS, proj. graduation 2018

Dr. Courtney Sulentic

PTX 7300, Cellular Pharmacology & Toxicology, Directory
M&I 7260, Microbiology and Immunology, 10.5 hours
M&I 7260, Microbiology and Immunology, Co-director, 30 hours
BMS 8050, Intercellular Communication, 6 hours

Thesis Director:

Nicole Panstingel, MS, 2015-2017
Siham Abdulla, MS, 2015-2017
Nasser Alhamdan, M&I MS, graduated 2017
Clayton Buckner, M&I MS, proj. graduation 2018

Thesis Advisory Committees:

Tahir Sulehria, BMS, PhD
Alan Cone, BMS, PhD
Angela Campo, BMS, PhD
Denise Kramer, BMS, PhD
Amanda Hanes, BMS, PhD
Kevin Novak, BMS, PhD, defended summer 2017
Tu Thien Danh, BMS, PhD
Todd Lewis, BMS, PhD, defended spring 2017

Dr. Jeffrey Travers

PTX 7021, Effective Scientific Writing, Part 1
PTX 7022, Effective Scientific Writing, Part 2
PTX 8000 B02 Independent Study Journal Club (Director)

BSOM Medical School

-Pathobiology and Therapeutics Module for 2nd year Medical Students.
Co-led Problem-Based Learning Modules for "Immunologic Disorders and Immunopharmacology", and
"Environmental Pathology and Toxicology"
"Dermatology infectious rashes".

Thesis Director:

Azzizat Awoye, MS, 2016-2018, proj. graduation 2018
Katherine Fahy, MS, 2016-2017, graduated 2017
Walid Mari MD (Richard Simmans, M.D.), graduated 2017

Thesis Advisory Committees:

Aparna Poluparthi, MS, proj. graduation 2018
Walid Mari, MS, 2016-2018, graduated 2018

Co-Advisor MD/MS Students:

Larilynn Yelton, 2015-2018, graduated 2018
Casey Walk, 2015-2018, graduated 2018
Andrew La'Pelusa, 2016-present
Jude Khatib, 2017-present
Jaree Naqvi, 2017-present
Benita Wu, 2017-present
Michael Williams, 2017-present

PhD Program Students:

Ann Collier (Dan Spandau, Ph.D./Ronald Wek Ph.D.), I.U. dissertation committee, 2013-17
Xiao Zhang, M.S. (Yanfang Chen M.D., Ph.D.), 2015-
James Readler (Kate Excoffin, Ph.D.), 2015-
Langni Liu, M.S. (Travers), 2016-

Dr. Yong-jie Xu

PTX 7002, Journal Club Special Topics

Thesis Director:

Rittu Samuel, MS, proj. graduation 2019
Darlington O Abrefa, MS, M&I

Lab Rotations

Jananie Lockwood, BMS/PhD
Rittu Samuel, MS, proj. graduation 2019
Darlington O Abrefa, MS, M&I

Undergraduate medical education [medical school]

Dr. David Cool

SMD 521, CATOs (MCTB) Hormone Synthesis 1st yr SOM, 2 hours

Dr. Khalid Elased

Wright Q Legacy Curriculum, facilitator

Dr. Mike Kemp

Student Advising

Christina Borchers, BSOM Biennium, 1st yr, fall 2017

Dr. Courtney Sulentic

Wright Q Legacy Curriculum, facilitator

Dr. Jeffrey Travers

Pathobiology and Therapeutics Module for 2nd year Medical Students.
Co-led Problem-Based Learning Modules for "Dermatology infectious rashes", 2017

Student Advising

Christina Borchers, BSOM Biennium, 1st yr, fall 2017

Graduate medical education [residents, fellows]

Dr. Norma Adragna

Silver and Gold Nanoparticles Applications presentation, OBGYN, Miami Valley Hospital residents

Dr. Jeffrey Travers

Department of Dermatology, Resident student lectures "New concepts in skin cancer" 2017,

Continuing medical education [grand rounds, seminars]

Dr. Jeffrey Travers

Dermatology Grand Rounds, Wright State Physicians, monthly

Other

Dr. Mauricio Di Fulvio

Review Editor, Frontiers in Endocrinology

Review Editor, Frontiers in Neurosciences

Dr. Courtney Sulentic

Vinodh Erukonda, Beavercreek HS research trained

Alicia Taylor, PhD, Postdoc Mentor Match Program mentor, University of California, Berkley

Melinda Meiring, undergraduate, Women in STEPP Leadership/Women in Science Giving Circle mentor, WSU

Dr. Jeffrey Travers

Medical Education Resources, Inc. I am a regular lecturer for this non-profit company that is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide AMA PRA Category 1 Credit(s)[™]. MER is widely-recognized as one of the leading providers of high-quality continuing medical education symposia and educational materials for physicians.

Dr. Yong-jie Xu

Supervised two postdocs and one visiting scholar

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., 1 year no-cost extension, 2017-2018.

NSF, "MRI: Acquisition of a CytoViva System for highly interdisciplinary research and education in nanoscience and nanotechnology". Iona Pavel-Sizemore (PI), Norma C. Adragna (PI), Project # 3 and Co-PI of application, submitted January 2016, competitive re-submission, December 2016, funded 2017.

NSF, "MRI: Acquisition of a CytoViva System for highly interdisciplinary research and education in nanoscience and nanotechnology". Iona Pavel-Sizemore (PI), Peter K. Lauf Norma C. Adragna (PIs), Project # 10 and Co-PIs of application, competitive pre-selection and re-submission, December 2016, funded 2017.

Dr. F. Javier Alvarez-Leefmans

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".

Dr. Ji Bihl

ADA Innovative Basic Science Grant (1-17-IBS-187, \$345,000, **PI, Yanfang Chen Co-PI**, 01/01/2017-12/31/2019, THERAPEUTIC ROLE OF miR-126 OVER-EXPRESSING EPC-MVs for ISCHEMIC STROKE IN DIABETES
The major goal of this project is to determine the therapeutic role of miR-126-EPC-MVs in ischemic stroke in diabetes by protecting ECs/EPCs/neurons/astrocytes against ischemic and inflammatory injury and promoting angiogenic/neurogenic repair; and determine the predictive role of the levels of cEPC-MVs and their carried miR-126 for ischemic stroke outcomes in diabetic patients.

NIH R21 (5 R21 AR071110, \$407,332, **PI, Yanfang Chen Co-PI**, 08/10/2017-07/31/2019, MICROVESICLES AS A NOVEL TRANSMITTER FOR UVB-INDUCED BIOACTIVE PRODUCTS

The major goals of this project are to determine the involvement of PAF-PAFR signaling pathway in mediating UVB-induced MVP release and the effects of antioxidant on UVB-induced MVP release, and determine the bioactive agents in UVB-MVP.

AHA Scientist Development Grant (16SDG26420078), "Role of ACE2 over-expressing endothelial progenitor cells in cerebral hemorrhage", 2016.1-2019.12, PI, Bihl, **Yanfang Chen Co-PI**, \$320,000

Dr. Mauricio Di Fulvio

American Diabetes Association (Innovative Basic Science Award # 1-17-IBS-258). Di Fulvio, M (PI) Chloride-regulated insulin secretion. Budget: \$350,000 (1/1/17-12/31-19)

National Institute of Diabetes, Digestive and Kidney Disease (NIDDK). R21 DK113446-01, Di Fulvio, M (PI). Role of Slc12a5 in insulin secretion and glucose homeostasis. Budget: \$ 550,000.

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

Henry Jackson Foundation, 2017-2018, 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 for WSU \$ 60,000.00

Dr. Saber Hussain

In-house Grant (AFRL/RHDJ), Saber Hussain (PI),

2 grants from AFOSR - Biomolecular Interaction of engineered nanomaterials, Saber Hussain (PI), 2013-2017.

Dr. Ravi Sahu

Elsa U. Pardee Foundation Grant , (P.I. Sahu), 03/2018 - 02-2019, 1 summer month Impact of platelet-activating factor in targeted therapy responses in melanoma patients.

NIH/NIEHS, 7K22ES023850-02, (P.I. Sahu), 07/2014 - 06/2017, 2 summer months (no cost extension), Environmental Pro-oxidative Stressors and immunosuppression.

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. Yong-jie XU

RO1-GM110132, NIH/NIGMS, (2/1/2015 - 1/31/2020), Title: Signaling Mechanism of the DNA Replication Checkpoint. Total Cost (DC + IDC): \$1,350,500

Dr. Jeffrey Travers

NIH R21 AR070010, **Sulentic/Travers** (PI), 2016-2018, Photodynamic Therapy-Induced Immune Modulation: Mechanisms and Influence on Therapeutic Efficacy

Pharmaceutical-sponsored studies (**Travers as PI**): MAVIS Melanoma Vaccine in State IIb,IIc, 10/01/2015 to 9/30/2019 and III Melanoma Patients, 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 Phase IV 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.

Innovaderm, 11/1/2016 to 9/1/2017

GBR 830-201

This is a Phase IIa, double-blind, randomized, placebo-controlled, exploratory study to evaluate the safety, biological activity and pharmacokinetics of GBR 830 in adult patients with moderate-to severe atopic dermatitis. Our Pharmacology Translational Unit at Wright State University is one of the sites for this infusion agent.

Pharmaceutical-sponsored studies (continued):

11F-MC-RHCD 12/1/2016 to 06/1/2019
Eli Lilly

This is a Multicenter, Double-Blind, Randomized, Placebo-Controlled Study to Evaluate Safety, Tolerability, and Efficacy of Ixekizumab in Patients from 6 to Less than 18 Years of Age with Moderate-to-Severe Plaque Psoriasis. Our Pharmacology Translational Unit at Wright State University is one of the sites for this study.

14V-MC-JAIW 02/15/2018 to 02/1/2020
Eli Lilly

This is a Multicenter, Double-Blind, Randomized, Placebo-Controlled Study to Evaluate Safety, Tolerability, and Efficacy of Baractinib in Adult Patients with Moderate-to-Severe Atopic Dermatitis.

LP0162-1325 03/15/2017 to 03/1/2019
Leo Pharmaceuticals

This is a Phase III study on Tralokinumab monotherapy for moderate to severe atopic dermatitis. Our Pharmacology Translational Unit at Wright State University is one of the sites for this study.

Celgene 2017 to 2019

This is a Phase III study on apremilast therapy for moderate to severe psoriasis with scalp involvement. Our Pharmacology Translational Unit at Wright State University is one of the sites for this study.

Asana Biosciences 07/1/2018 to 07/1/2019

This is a Phase III study to test an oral SYK/JAK inhibitor for adults with moderate to severe atopic dermatitis. Our Pharmacology Translational Unit at Wright State University is one of the sites for this study.

Eli Lilly 07/1/2018 to 07/1/2020

This is a Phase III study to test an IL-23 inhibitor on adults with with moderate to severe psoriasis. Our Pharmacology Translational Unit at Wright State University is one of the sites for this study.

Novartis 07/1/2018 to 07/1/2020

This is a Phase IV study to test various doses of an IL-17 inhibitor (Cosentyx) in adults with moderate to severe psoriasis who weigh > 90 kg. Our Pharmacology Translational Unit at Wright State University is one of the sites for this study.

Novartis 07/1/2018 to 07/1/2019

This is a Phase III study to test a H4 antagonist in adults with moderate-severe atopic dermatitis. Our Pharmacology Translational Unit at Wright State University is one of the sites for this study.

Co-Investigator Studies

Celgene 05/1/2018 to 09/1/2019
Korman, Neil PI (Travers co-Investigator)

An Investigator Initiated Study of Monocyte Biomarkers in Moderate to Severe Plaque Psoriasis Subjects Treated with Apremilast

This is an investigator-initiated study in collaboration with Case Western to test the ability of oral apremilast to modify monocyte biomarkers associated with thrombosis in psoriatic subjects. Our Pharmacology Translational Unit at Wright State University is one of the sites for this study, with the other one being Case Western Reserve Department of Dermatology.

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 5/31/2018* 15% effort
*No cost extension

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 remained at Indiana University and I subcontract to perform clinical studies- it is in a one year No-cost extension.

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.

Extramural support (continued):

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 pro-carcinogenic effects of UVB on human skin xenografted onto immunodeficient mice will be defined.

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-Sulentico-PIs) 07/01/2016 to 03/31/2019* 10% effort
*No cost extension

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.

R21 AR071110-01A1 (Bihl) 07/01/2017 to 06/30/2019 10% effort

Microvesicles as a novel transmitter for UVB-induced bioactive products

\$125-150,000 direct costs/year

The objective of this study is to measure microvesicles in skin from various types and treatments. My role as co-investigator is to conduct human translational studies.

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

Dr. Ji Bihl

Liao FL, Tan L, Liu H, Wang JJ, Ma XT, Zhao B, **Chen YF, Bihl J**, Yang Y, Chen RL (2017). "Hematopoietic stem cell-derived exosomes promote hematopoietic differentiation of mouse embryonic stem cells in vitro via inhibiting the miR126/Notch1 pathway," *Acta Pharmacol Sin.* 2017 Oct 19.

Liu H, Wang J, Chen Y, **Chen Y**, Ma X, **Bihl J**, Yang Y (2017). "NPC-EXs Alleviate Endothelial Oxidative Stress and Dysfunction through the miR-210 Downstream Nox2 and VEGFR2 Pathways," *Oxid Med Cell Longev.* 2017:9397631.

Dr. Yanfang Chen

Cheng Q, Li X, Liu J, Ye Q, **Chen Y**, Tan S, Liu J. Multiple Myeloma-Derived Exosomes Regulate the Functions of Mesenchymal Stem Cells Partially via Modulating miR-21 and miR-146a. *Stem Cells Int.* 2017;2017:9012152. doi: 10.1155/2017/9012152. Epub 2017 Nov 27.

Bihl J, Wang J, Ma X, Bin Z, Yang Y, **Chen Y**, (2017) "Exosome and MiRNA in Stroke," Springer Ser. Translations, Paul A. Lapchak and John H. Zhang (Eds): Cellular and Molecular Approaches to Regeneration and Repair, 978-3-319-66678-5, 433632_1_En, (17)

Sun X, Ma X, Wang J, Zhao Y, Wang Y, **Bihl JC, Chen Y**, Jiang C (2017). Glioma stem cells-derived exosomes promote the angiogenic ability of endothelial cells through miR-21/VEGF signal. *Oncotarget.* 2017, May 30;8(22):36137-36148.

Zhang C, Xiao X, Chen M, Aldharee H, **Chen Y**, Long W. Liver kinase B1 restoration promotes exosome secretion and motility of lung cancer cells. *Oncol Rep.* Epub 2017 Nov 9;39(1):376-382. doi: 10.3892/or.2017.6085.

Dr. David Cool

Bahado-Singh, R, Poon, L, Yilmaz, A, Syngelaki, A., Turkoglu, O, Kumar, P, Kirma, J, Allos, M, Zhao, P, Li, J, Graham, S, **Cool, D.R.**, Nicolaidis, K., Serial first and third trimester prediction of term preeclampsia: Integrated Proteomics and Metabolomics. *Scientific Reports* (2017) 7; 16189 [DOI:10.1038/s41598-107-15882-9].

Dr. Mauricio Di Fulvio

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.*, 4:150, 2017.

The neuronal K⁺Cl⁻ co-transporter 2 (Slc12a5) regulates insulin secretion. Kursan S, McMillen T, Beesetty P, Dias-Junior E, Almutairi M, Sajib A, Kozak J, Aguilar-Bryan L and **Di Fulvio M**. (2017) *Sci Reps.* 17:1732.

Survival and growth of C57BL/6J mice lacking the BK channel, *Kcnma1*: lower adult body weight occurs together with higher body fat. Halm S, Bottomely M, Almutairi M, **Di Fulvio M**, and Halm D. (2017) *Physiol Reps* 5:e13137.

Dr. Khalid Elased

Gutta S, Grobe N, Kumbaji M, Osman H, Saklayen M, Li G, **Elased KM**. Increased Urinary Angiotensin Converting Enzyme 2 (ACE2) and Neprilysin (NEP) in Type 2 Diabetic Patients. *Am J Physiol Renal Physiol.* 2018 Mar 21. doi: 10.1152/ajprenal.00565.2017, [Epub ahead of print] PMID: 29561187

Grobe N, **Elased KM**. Analysis of Angiotensin Metabolism in the Kidney Using Mass Spectrometry. *Methods Mol Biol.* 2017;1614:189-197. doi: 10.1007/978-1-4939-7030-8_15. PMID: 28500605

Dr. Saber Hussain

Grabinski CM, Methner MM, Jackson JM, Moore AL, Flory LE, Tilly T, **Hussain SM**, Ott DK, Characterization of exposure to byproducts from firing lead-free frangible ammunition in an enclosed, ventilated firing range. *J Occup Environ Hyg.* 2017 Jun;14(6):461-472. doi: 10.1080/15459624.2017.1296232.

Truong L, Zaikova T, Schaeublin NM, Kim KT, **Hussain SM**, Hutchinson JE, Tanguay RL. Residual weakly bound ligands influence biological compatibility of mixed ligand shell, thiol-stabilized gold nanoparticles. *Environmental Science: Nano* 4 (8), August 2017, 1634-1646.

Dr. Mike Kemp

Kemp MG. DNA damage-induced ATR kinase activation in non-replicating cells is regulated by the XPB subunit of transcription factor II-H (TFIIH). *J Biol Chem.* 292(30): 12424-12435. 2017.

Kemp M, Spandau D, Simman R, **Travers JB.** Insulin-like growth factor-1 receptor signaling is required for optimal ATR-CHK1 kinase signaling in UVB-irradiated human keratinocytes. *J. Biol. Chem.* 292(4) 1231-1239, 2017. PMID: 27979966.

Dr. Terry Oroszi

Alsabri, S. G., Mari, W. O., Younes, S., Alsadawi, M. A., & **Oroszi, T. L.** (2017). Kinetic and dynamic description of caffeine. *Journal of Caffeine Research.* <https://doi.org/10.1089/jcr.2017.0011>

Sherif, A., Benhammuda, M., Fares, S. and **Oroszi, T.L.** (2017) Cardiovascular diseases and radiations. *Journal of Biosciences and Medicines*, 5, 72-77. <https://doi.org/10.4236/jbm.2017.52007>

Dr. Ravi Sahu

Thyagarajan A, Saylae J, **Sahu RP.** Acetylsalicylic acid inhibits the growth of melanoma tumors via SOX2-dependent-PAF-R-independent signaling pathway. *Oncotarget.* 2017; 8(30):49959-49972.

Konger RL, Derr-Yellin E, **Travers JB**, Ocana JA, **Sahu RP.** Epidermal PPAR γ influences subcutaneous tumor growth and acts through TNF- α to regulate contact hypersensitivity and the acute photoresponse. *Oncotarget.* 2017; 8(58):98184-98199.

Dr. Courtney Sulentic

Liu, J., Law, R. A., Koles, P. G., Saxe, J. C., Bottomley, M., **Sulentic, C.E.W.** Allelic frequencies of the hs1.2 enhancer within the immunoglobulin heavy chain region in Dayton, Ohio patients screened for celiac disease with duodenal biopsy. *Digestive and Liver Disease, Digestive Liver Diseases*, 2017; 49:887-892. PubMed PMID: 28473300.

Dr. Jeffrey Travers

Fahy K, Liu L, Rapp CM, Borchers C, **Bihl JC, Chen Y**, Simman R, **Travers JB.** "UVB-generated microvesicle particles: A novel pathway by which a skin-specific stimulus could exert systemic effects," *Photochem Photobiol.* Jul;93(4):937-942, 2017.

Kemp M, Spandau D, Simman R, **Travers JB.** Insulin-like growth factor-1 receptor signaling is required for optimal ATR-CHK1 kinase signaling in UVB-irradiated human keratinocytes. *J. Biol. Chem.* 292(4) 1231-1239, 2017. PMID: 27979966.

Fahy K, Liu Langni, Rapp CM, Borchers C, **Bihl JC, Chen Y**, Simman R, **Travers JB.** UVB-generated microvesicle particles: a novel pathway by which a skin-specific stimulus could exert systemic effects. *Photochemistry & Photobiology*, 93(4):937-942, 2017. PMID: 28039861.

Travers, JB, Poon C, Rohrbach DJ, Weir NM, Cates E, Hager F, Sunar U. Noninvasive mesoscopic imaging of actinic skin damage using spatial frequency domain imaging. *Biomed Opt Express* 8(6): 3045-52, 2017. PMID: 28663925.

Krishnamurthy P, Da-Silva-Arnold S, Turner, MJ, **Travers JB**, Kaplan MH. PARP14 limits severity of allergic skin disease. *Immunology*. 152(3):451-461, 2017. PMID: 28653395.

Sullenbarger JW, Hensley B, **Travers JB**. Kitty litter dermatitis from bromo-2-nitroane-1,3-diol. *Skinmed* 15(5):389-90, 2017. eCollection 2017. PMID 29139375.

Dr. Yong-jie XU

Singh A, Agarwal A, Xu YJ. Novel Cell-Killing Mechanisms of Hydroxyurea and the Implication toward Combination Therapy for the Treatment of Fungal Infections. *Antimicrobiol. Agents Chemother* 2017 Oct 24;61(11). pii: e00734-17. doi: 10.1128/AAC.00734-17. Print 2017 Nov.

Singh A, Xu YJ. Heme deficiency sensitizes yeast cells to oxidative stress induced by hydroxyurea. *J Biol Chem*. 2017 Jun 2;292(22):9088-9103. doi: 10.1074/jbc.M117.781211. Epub 2017 Apr 4.

Books, chapters, reviews

Dr. Yanfang Chen

Bihl J, Wang J, Ma X, Bin Z, Yang Y, **Chen Y**, (2017) "Exosome and MiRNA in Stroke," Springer Ser. Translations, Paul A. Lapchak and John H. Zhang (Eds): Cellular and Molecular Approaches to Regeneration and Repair, 978-3-319-66678-5, 433632_1_En, (17)

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 should be going. *J. Lower Genital Tract Disease/* 21 (2): p 150-156, 2017.

Dr. Khalid Elased

Grobe N, **Elased KM**. Chapter 15: Analysis of Angiotensin Metabolism in the Kidney Using Mass Spectrometry. Sean E. Thatcher (ed.), *The Renin-Angiotensin-Aldosterone System: Methods and Protocols, Methods in Molecular Biology*, vol. 1614, DOI 10.1007/978-1-4939-7030-8_15, © Springer Science+Business Media LLC 2017.

Dr. Saber Hussain

RL Salisbury, R Agans, ME Huddleston, A Snyder, A Mendlein, **S Hussain**. Toxicological Mechanisms of Engineered Nanomaterials: Role of Material Properties in Inducing Different Biological Responses. *Handbook of Developmental Neurotoxicology* (Second Edition), 237-249.

Dr. Mike Kemp

Kemp MG. (2017). Crosstalk Between Apoptosis and Autophagy: Environmental Genotoxins, Infection, and Innate Immunity. *J Cell Death*. 1-6.

Kemp MG and Hu J. (2017). Post-Excision Events in Human Nucleotide Excision Repair. *Photochem Photobiol*. 93(1): 178-91.

Song J, **Kemp MG** and Choi J-H. (2017). Detection of the Excised, Damage-containing Oligonucleotide Products of Nucleotide Excision Repair in Human Cells. *Photochem Photobiol*. 93(1): 192-8.

Dr. Ravi Sahu

Thyagarajan A, Shaban A, **Sahu RP**. MicroRNA-Directed Cancer Therapies: Implications in Melanoma Intervention. *J Pharmacol Exp Ther*. 2018; 364(1):1-12.

Dr. Courtney Sulentic

Sulentic, C. E.W., Snyder, A. D., Salisbury, R. L.: The Aryl Hydrocarbon Receptor and Immunity. In: McQueen, C.A., Comprehensive Toxicology, 3rd edition. Vol. 11, pp. 238-271. Oxford: Elsevier Ltd. 12 August 2017.
Kaplan, B. L. F., Sulentic, C. E. W., Haggerty, H. G., Holsapple, M. P., Kaminski, N. E.: Chapter 12: Toxic Responses of the Immune System. In: Casarett & Doull's Toxicology, The Basic Science of Poisons (ed. C. D. Klaassen) 9th edition, McGraw-Hill, USA 2017.

Dr. Travers

Kemp MG, Spandau DF, and **Travers JB**. (2017). Impact of Age and Insulin-like Growth Factor-1 on DNA Damage Responses in UV-irradiated Human Skin. *Molecules*. 22(3).

Published abstracts

Dr. Norma Adragna

Not all silver nanoparticles are equal: Effect of functionalization on K homeostasis in human red blood cells. Alla, P.K., P.K Lauf, I. Pavel, A.S.L Paluri, J. Yaklic, and **N.C. Adragna**, FASEB J., 31, Suppl. 01, Apr 2017. Abstract Number: lb685.

Not all silver nanoparticles are equal: Effect of functionalization on K homeostasis in human red blood cells. Alla, P.K., P.K Lauf, I. Pavel, A.S.L Paluri, J. Yaklic, and **N.C. Adragna**, Central Research Forum, Abstract Book, 2017.

Challenges in determining the oxidative stress marker - malondialdehyde (MDA) in human red blood cells. Aparna K. Poluparthi, Praveen K. Alla, Peter K. Lauf, and **Norma C. Adragna**. Ohio Physiological Society 32nd Annual Meeting, Abstract Book, Poster # 35, Pg. 12, 2017.

Effects of Serum and Dimethylsulfoxide in the Presence and Absence of Ouabain on Growth of Two Human Epithelial Cell Lines. Gousia Begum, Semra Aygun-Sunar, **Norma C Adragna**, and Peter K Lauf. Ohio Physiological Society 32nd Annual Meeting, Poster # 19, Pg. 10, Abstract Book, 2017.

Large Gold Nanorods Affect Glutathione but not K+ Metabolism in Human Red Blood Cells. P.K. Alla, N.C. Ihezurike, P.K. Lauf, A. de la Zerda, E.D. SoRelle, I.E. Pavel-Sizemore, J. Yaklic and **N.C. Adragna**. Submitted Experimental Biology 2018, December, 2017.

Cytosolic Internalization of the Na/K ATPase Ouabain Receptor Complex (NORC). J.L Stricker, **N.C Adragna** and P.K Lauf. Submitted Experimental Biology 2018, December, 2017.

Dr. Ji Bihl

Wang J, You Y, Ma X, Wang W, Chen C, **Bihl J**. "MiR-126 enrichment enhances the protective effect of EPC-EXs on hypoxia/high glucose-induced endothelial cells injury," ADA 2017, San Diego, CA, 2017.

Wang J, Pan Q, Zhao B, **Chen Y**, Ma X, **Bihl J**. "Exosomes derived from ACE2-overexpressing endothelial progenitor cells protect neurons from hemin-induced apoptosis and inflammation," ISEV 2017, Toronto, Canada, 2017.

Wang J, Ma X, Yang Y, Zhao Y, Liu H, Zhao B, Chen Y, **Chen Y**, **Bihl J**. "MiR-210 boosts the protective effects of NPC-EXs on neurons and astrocytes against hypoxia/reoxygenation-induced injury," BRAIN 2017, Berlin, German, 2017.

Dr. Mauricio Di Fulvio

Expression and function of Cl- loaders, extruders and channels in pancreatic islet β -cells. **Di Fulvio M**, McMillen T, Kursan S, Bogdani M, Dias-Junior E, Kelly L and Aguilar-Bryan L. European Association for the Study of Diabetes. EASD 2017. Lisbon, Portugal • September 11-15, 2017

Expression and function of Cl⁻ loaders, extruders and channels in pancreatic islet β -cells: implications for intracellular Cl⁻ regulation, insulin secretion and cystic fibrosis-related diabetes. **Di Fulvio M**, McMillen T, Kursan S, Bogdani M, Dias-Junior E, Kelly L and Aguilar-Bryan L. European Cystic Fibrosis Society Basic Science Conference. Albufeira, Portugal • March 29 to April 1, 2017

Dr. Khalid Elased

Fadnavis R, Kumbaji M, El-Amouri S, Grobe N, **Elased KM**. Renal and cardiovascular dysfunction in db/db diabetic mice is associated with increased cardiac angiotensin converting enzyme 2 (ACE2) and neprilysin (NEP). Conference: American Society of Nephrology Kidney Week 2017 Annual Meeting. Location: New Orleans, LA, October 31- November 5, 2017
Sponsor(s): American Society of Nephrology Kidney Week Annual Meeting.

Kumbaji M, Fadnavis R, El-Amouri S, Saklayen M, Grobe N, **Elased KM**. Effect of pioglitazone on the shedding of urinary angiotensin converting enzyme (ACE) 2 and neprilysin (NEP) in db/db mice and their role as urinary biomarkers for diabetic kidney disease. Conference: American Society of Nephrology Kidney Week 2017 Annual Meeting. Location: New Orleans, LA, October 31- November 5, 2017
Sponsor(s): American Society of Nephrology Kidney Week Annual Meeting

Koles P; Corbett A; **Elased KM**; Stolfi A; Borges N; Parmelee D. Intermittent Doses of Team-Based Learning and Longer-Term Learning. Conference: 21st Annual International Association of Medical Science Educator. Location: Burlington, Vermont CA, June 10-13, 2017.

Dr. Saber Hussain

Total of 6- Society of Toxicology 2018, San Antonio, TX, 2017.

Dr. Terry Oroszi

Oroszi, T., Lukey, B., DelRaso, N., Marcel, B., Mattie, David (2017) Department of Defense Toxicology Efforts, TriService Toxicology Consortium Meeting

Oroszi, T. (2017). A Preliminary Analysis of High-Stakes Decision-Making for Crisis Leadership. Infragard, Dallas, TX.

Oroszi, T. (2017). A Preliminary Analysis of High-Stakes Decision-Making for Crisis Leadership. National Homeland Security, Buffalo, NY.

Oroszi, T. (2017). Americans Killing Americans: A Comparison of U.S. Male Citizens Charged with Acts Related to Terrorism Since 9/11. Infragard, Cincinnati, OH.

Oroszi, T. (2017). Americans Killing Americans: A Comparison of U.S. Male Citizens Charged with Acts Related to Terrorism Since 9/11. Infragard, Dayton, OH.

Dr. Courtney Sulentic

Alhamdan, N., Burra, K., **Sulentic, C.E.W.**: AhR antagonists may increase human IgG secretion by influencing interactions of the AhR with other cytosolic signaling proteins. In: The Toxicologist: Supplement to Toxicological Sciences, 156:1961, 2017.

Buckner, C., Snyder, A., Abdulla, S., **Sulentic, C.E.W.**: Functional characterization of the polymorphic hs1.2 enhancer using CRISPR/Cas9 gene editing and nanopore sequencing technology. Toxicological Sciences, the Toxicologist, 156:3547, 2017.

Dr. Travers

Kemp MG, Spandau DF, and **Travers JB**. (2017). Impact of Age and Insulin-like Growth Factor-1 on DNA Damage Responses in UV-irradiated Human Skin. Molecules. 22(3).

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

Dr. Norma Adragna

Alla, P.K., P.K Lauf, I. Pavel, A.S.L Paluri, J. Yaklic, and **N.C. Adragna**. Not all silver nanoparticles are equal: Effect of functionalization on K homeostasis in human red blood cells, 2017 Experimental Biology Mtg., Chicago, April 22-26, 2017.

Norma C. Adragna, Praveen K. Alla , Nedu C. Ihezurike , Ioana Sizemore , Shesha L.A. Paluri, Adam de la Zerda, Elliott SoRelle, Jerome Yaklic and Peter K. Lauf. Effect of nanoparticles on K transport and glutathione in human red blood cells. 52nd Annual Lake Cumberland Biological Transport Group, Lake Cumberland, Jamestown, KY, June 18-20, 2017.

Peter K. Lauf, Michael Markey, Semra Aygun and **Norma C. Adragna**, Digitalis, Transcription and Apoptosis. 52nd Annual Lake Cumberland Biological Transport Group, Lake Cumberland, Jamestown, KY, June 18-20, 2017.

Alla, P.K., P.K Lauf, I. Pavel, A.S.L Paluri, J. Yaklic, and **N.C. Adragna**. Not all silver nanoparticles are equal: Effect of functionalization on K homeostasis in human red blood cells, Central Research Forum 2017, Wright State University, Dayton, OH, October 5, 2017.

Aparna K. Poluparthi, Praveen K. Alla, Peter K. Lauf, and **Norma C. Adragna**. Challenges in determining the oxidative stress marker - malondialdehyde (MDA) in human red blood cells. Central Research Forum 2017, Wright State University, Dayton, OH, October 5, 2017.

Aparna K. Poluparthi, Praveen K. Alla, Peter K. Lauf, and **Norma C. Adragna**. Challenges in determining the oxidative stress marker - malondialdehyde (MDA) in human red blood cells. Ohio Physiological Society 32nd Annual Meeting, Northeast Ohio Medical University, Rootstown, OH, October 27, 2017.

Gousia Begum, Semra Aygun-Sunar, **Norma C Adragna**, and Peter K Lauf. Effects of Serum and Dimethylsulfoxide in the Presence and Absence of Ouabain on Growth of Two Human Epithelial Cell Lines. Ohio Physiological Society 32nd Annual Meeting, Northeast Ohio Medical University, Rootstown, OH, October 27, 2017.

Dr. F. Javier Alvarez-Leefmans

Invited Symposium Speaker. Experimental Biology 2017, Chicago, IL. Annual Meeting of the American Physiological Society. Symposium "Transport Proteins in Cellular Signaling in Choroid Plexus Epithelia" with the talk entitled "Cation-Chloride Cotransporters and Aquaporins in CSF Secretion and K+ homeostasis by Choroid Plexus Epithelial Cells, presented at EB Chicago on April 24, 2017.

Dr. Mauricio Di Fulvio

KCC2 regulation of insulin secretion. 52nd Annual Lake Cumberland Biological Transport Group Meeting, Jamestown, KY, 2017.

Dr. Khalid Elased

Poster presentation at the American Nephrology Society Annual Meeting, New Orleans, Louisiana, October 31- November 5, 2017.

Dr. Mike Kemp

Kemp MG. Role of Aging and Insulin-like Growth Factor-1 (IGF-1) in the Suppression of DNA Synthesis in UV-irradiated Human Keratinocytes. 19th Annual Midwest DNA Repair, Wright State University, Dayton, Ohio (May 13-14, 2017).

Kemp MG, Spandau DF, Gaddameedhi S, and Travers JB. The circadian clock and biological age influence UV DNA damage responses in skin epidermis. 17th Congress of the European Society for Photobiology, Pisa, Italy (Sept 4-8, 2017).

Dr. Terry Oroszi

Oroszi, T., (Sept. 2017) Crisis Management: Crisis Decision-Making. Infragard training conference, Dallas, TX.

Oroszi, T., (June 2017) Guest on the Attack of the Politicos Podcast (Est.10-15K audience)

Oroszi, T., (June 2017) High Stakes Decision-Making Model, National Homeland Security Conference, Buffalo NY

Oroszi, T., (Aug. 2017) TriService Tox Consortium Abstract/Presentation DoD Toxicology efforts. WPAFB, OH. (Streamed Nationally to AF/Army/Navy Branches)

Oroszi, T., (Sept. 2017) Analysis of an American Terrorist, 4 Hour Workshop, Advanced Technical Intelligence Center (ATIC), Beavercreek, OH.

Oroszi, T., (May 2017) 4/5/6 Power Platform 4 Hour Workshop, Advanced Technical Intelligence Center (ATIC), Beavercreek, OH.

Oroszi, T., (May 2017) Analysis of an American Terrorist, 4 Hour Workshop, Advanced Technical Intelligence Center (ATIC), Beavercreek, OH.

Oroszi, T., (May 2017) Cincinnati Infragard Speaker Topic: Americans Killing Americans: A Comparison of U.S. Male Citizens Charged with Acts Related to Terrorism Since 9/11.

Oroszi, T., (April 2017) Invited speaker/SME Terrorism for Peace Rally, Dayton OH

Oroszi, T., (Mar. 2017) "Americans Killing Americans" Staff Development Day., Wright State University, Beavercreek, OH.

Oroszi, T., (Mar. 2017) Infragard Speaker on Terrorism (Dayton, OH)

Oroszi, T., (Feb. 2017) Intro to Terrorism 4 Hour Workshop, Advanced Technical Intelligence Center (ATIC), Beavercreek, OH.

Oroszi, T., (Feb. 2017) Women in Business Luncheon speaker, Xenia Chamber of Commerce

Oroszi, T., (Jan. 2017) Recognizing a Potential Terrorist with Case Study, BioStar Program, Wright State University

Oroszi, T., (Jan. 2017) Power Platform Workshop 4 Hour Workshop, Advanced Technical Intelligence Center (ATIC), Beavercreek, OH.

Dr. Courtney Sulentic

Participant in Panel Discussions: The Career Roundtable: Opportunities in Toxicology Session. Committee on Diversity Initiatives, Society of Toxicology, Baltimore, MD, 2017.

Student poster or platform presentations *trainee presenter from Sulentic lab

*Eukonda, V., Buckner, C., Alhamdan, N., **Sulentic, C. E. W.**: Role of the AhR in immunoglobulin expression and the antibody isotypic profile in a human B-cell line. Ohio Valley Society of Toxicology, Purdue University, West Lafayette, IN, 2017.

*Buckner, C., Snyder, A., Abdullah, S., **Sulentic, C. E. W.**: Elucidating the role of the polymorphic hs1.2 enhancer in Ig production using CRISPR/Cas9 gene editing. Ohio Valley Society of Toxicology, Purdue University, West Lafayette, IN, 2017.

*Crabb, G., Buckner, C., Alhamdan, N., Snyder, A., **Sulentic, C. E. W.**: The aryl hydrocarbon receptor in immunoglobulin isotype expression. American Biomedical Research Conference for Minority Students (ABRCMS), Phoenix AZ, 2017.

*Buckner, C., Snyder, A., Abdullah, S., **Sulentic, C. E. W.**: Elucidating the role of the polymorphic hs1.2 enhancer in Ig production using CRISPR/Cas9 gene editing. Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, OH, 2017.

*Crabb, G., Buckner, C., Alhamdan, N., Snyder, A., **Sulentic, C. E. W.**: The effects of TCDD on Ig ϵ heavy chain expression in a plasma cell line. Ohio Valley Society of Toxicology, University of Louisville, KY, 2017.

*Buckner, C., Snyder, A., Abdullah, S., **Sulentic, C. E. W.**: Elucidating the role of the polymorphic hs1.2 enhancer in Ig production using CRISPR/Cas9 gene editing. Celebration of Research, Scholarship, and Creative Activities, Wright State University, Dayton, OH, 2017.

*Crabb, G. (platform), Buckner, C., Alhamdan, N., Snyder, A., **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, 2017.

Dr. Jeffrey Travers

University of Cincinnati, Cincinnati, OH Proctor and Gamble Lecturer, Department of Dermatology, "The importance of dermal aging in photocarcinogenesis". University of Cincinnati MSTP Program, "Why you should be in skin", February, 2017.

Emory University, Atlanta, GA Department of Dermatology Grand Rounds Lecturer, "A new paradigm for non-melanoma skin cancer and how cosmetic wounding therapies could be therapeutic", and "Basic science-clinical correlations: an afternoon in clinic with ME!" Emory University Emory MSTP Program, "Why you should be in skin", February, 2017.

4th Annual Lipids@Wayne Symposium, Detroit, MI Invited plenary speaker. The Platelet-Activating Factor system as an effector for environmental stressors". May, 2017.

Joanneum Inc. Graz, Austria. Invited speaker. " Microvesicles and the PAF system as effectors for environmental stimuli". May, 2017.

Consultantships [sponsor activity]

Dr. F. Javier Alvarez-Leefmans

Ad Hoc consultant for the Academic Council of King Saud University, Riyadh, Kingdom of Saudi Arabia.

Dr. David Cool

Proteomic Consultant for Dr. Ray Bahado-Singh, OB/GYN Beaumont Health Research Center, MI, 2016-present.
Consultant on NIH R21 AR070010, Sulentic/Travers (PI), 2016-2018

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

Dr. Norma Adragna

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

Regular reviewer for over 20 scientific journals 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: Frontiers, and Science Reports.

Ad hoc grant reviewer Division Biology and Medicine, Swiss National Science Foundation. CH-3001 Bern, Switzerland

Invited to write a chapter for the book "Role of the Choroid Plexus in Health and Disease" edited by Helle H. Danker, B. Blazer-Yost and J. Praetorius.

Dr. Ji Bihl

Reviewer for journals: Cellular and Molecular Neurobiology (4), Scientific Report (1), Biological Chemistry (1), International Journal of Developmental Neuroscience (1), Molecular Brain (1), Molecular Medicine Reports (1), Neurochemistry International (2), Theranostics (1).17.

Dr. Yanfang Chen

Member, Study Section, American Diabetes Association (ADA), 2017

Oversea Reviewer, National Natural Science Foundation of China (NSFC), 2017

Abstract grader for Annual Scientific Conference of American Heart Association 2017

Dr. David Cool

2014- Present- Editorial Board, Interdisciplinary Toxicology

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

2017 NIH CounterAct Study Section Member Molecular, Cellular & Developmental Neurosciences Integrated Review Group. U01 & U54 Study Section Reviewer (03/16-17/2017).

Dr. Mauricio Di Fulvio

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

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

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

Reviewer, Toxicological Sciences, 2007-present

Reviewer, Toxicology Letters, 2005-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, 2007-present

Reviewer, Langmuir, 2008-present

Reviewer, Nature Nanotechnology, 2008-present

Reviewer, Carbon, 2008-present

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

Reviewer, Advanced Materials, Small, 2008-present

Reviewer, PNAS, 2010-present

Honors and Awards

711 HPW researcher Dr. Saber Hussain receives prestigious 2017 SK Manchanda Memorial FIPS Oration Award XXIX Annual Conference of Physiological Society of India (PSI) and 7th Congress of Federation of Indian Physiological Societies (FIPS) held November 5-7, 2017 in Delhi, India. o AFOSR Start Team Award

Fellow of Academy of Toxicological Sciences- renewed

Dr. Ravi Sahu

Editorial member and ad-hoc peer reviewer for over 50 scientific journals

Dr. Courtney Sulentic

Student Awards, Clayton Buckner, Best M.S. Poster Presentation, Ohio Valley Society of Toxicology meeting, Purdue University, West Lafayette, IN, 2017

Vinodh Erukonda, Abstract selected by the Society of Toxicology for a special platform session at the annual meeting.

Dr. Jeffrey Travers

Ad Hoc reviewer for over 50 journals in career.

Editorial Board:

Inflammation & Allergy – Drug Targets
Clinics in Oncology (Melanoma/Skin Cancer section)

International Union of Basic and Clinical Pharmacology Committee on Receptor Nomenclature, PAF-R, Member 2012-present

Grant Reviewer:

NIH/NIAMS Loan Repayment Grant Review 2017
Arthritis Connective Tissue, and Skin (ACTS) permanent member 2013-2017
NIAMS T32 Review (ZAR1 YL M1) 10-2017

Veteran's Administration Review Panels

VA Oncology E Review Panel (chair) 6-2017,10-2017,
VA Promotions Committee (RCSR 1 Workgroup) 5-2017, 10-2017, 5-2018

Dr. Yong-jie Xu

Co-organizer of the 19th Annual Midwest DNA Repair Symposium, May 12-13, 2017

Ad-Hoc Reviewer

FEMS Yeast Research
Int. J. Mol. Sci
Genes

6

Summary of Service Activities

Student advising

Dr. Norma Adragna

Vamsi A. K. Chandu, MS, Advisor, 2015-2017
Nedu C. Ihezurike, MS, Advisor, 2015-2017
Aprana K. Poluparthi, MS, Advisor, 2016-present
Raisa Siddique, MS, Advisor, 2017-present
Praveen Alla, Ph.D., Co-Advisor, 2017-present
Joshua Stricker, MS, Co-Advisor, 2016-present
Gousia Begum, MS, Co-Advisor, 2016-present
Raisa Siddique, MS, Rotation Advisor, 2017
Rittu Samuel, MS, Rotation Advisor, 2017
Shesha Lakshmi Arathi Paluri, BMS Student, Committee Member, 2011, 2013-2017
Shrouq Almaghrabi, MS, Advisor, Fall 2016-Spring 2017
Thulasi Ram Konduru, MS, Advisor, Fall 2016-Spring 2017
Sachchida Subedi, MS, Advisor, Fall 2016-present
Sahasini S.S. Perumalla, MS student, Advisor, Spring, 2016-Summer 2017
Krishna Veeramasuneni, MS student, Advisor, Fall 2017

Dr. Ji Bihl

Langni Liu, Ph.D Student, thesis committee member, 2016-2021
Qinmao Ye, MS Student, thesis committee member, 2017-2019

Dr. Yanfang Chen

Langni Liu, Ph.D Student, 2016-2021, BMS representative, thesis committee member, 2016-2021
April Arnold Daubenspeck, PhD student, Committee member, 2013-2017
Qinmao Ye, MS Student, 2017-2019, thesis director, 2017-2019

Dr. David Cool

MS Student Committees

Walid Mari, M.S., Committee Member, P&T, Grad- 2017
Siham Abdul, M.S., Committee Member, P&T, Grad- 2017
Katey Fahey, M.S., Committee Member, P&T, Grad- 2017
Faten Bin Dayel, M.S., Advisor- Leadership, P&T, Proj- 2018
Ariel Molnar, M.S., Advisor- Leadership, P&T, Proj- 2018
Gousia Begum, M.S., Committee Member, P&T, Proj- 2018

Ph.D. Student Committees

Brian Stodgill, Ph.D., Committee Member BMS (Bio), Proj- 2018
April Daubenspeck, Ph.D., Co-Advisor, BMS (NCBP), Grad- 2017
Yirong Zhou, Ph.D., Committee Member, BMS (P&T), Proj- 2018
Jenny Jurcsisin, Ph.D., Committee Member, BMS (P&T), Proj- 2019
Raji Santhanakrishnan, Ph.D., BMS Rep, BMS (Bio), Proj- 2020
Prithy Martis, Ph.D., BMS Rep, BMS (BMB), Proj- 2020
Todd Lewis, Ph.D., Committee Member, BMS (BMB), Grad- 2017
Soham Parikh, Ph.D., BMS Rep BMS (ENG), Proj- 2020

Dr. Khalid Elased

Rucha Fadnavis, MS, thesis director, grad. 2017
Unmesha Hemant Thanekar, MS, thesis director, 2017-2019
Rupinda Gill, MS, proj. graduation 2018
Sanjeev Dhakal, MS, proj. graduation 2018
Leonid M. Yermakov, MD/PhD

Dr. Saber Hussain

Shar Quershi, MS, thesis director, proj. graduation 2018
Lt. Robert Boehm, MS, thesis director, graduation 2018
Nicole Panstingel, MS, thesis committee member
8 summer students at WPAFB

Dr. Mike Kemp

Kavya Shaj, MS, Thesis director, 2017-2019

Dr. Terry Oroszi

MS students:

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

Co Advisor MD/MS Students:

Larilyn Yelton, 2015 – Present
Casey Walk, 2015 – Present
Andrew La'Pelusa, 2016 – Present
Jude Khatib, 2017 – Present
Casey Walk, 2017 – Present
Jaree Naqvi, 2017 – Present
Benita Wu, 2017 – Present
Michael Williams, 2017 – Present

Graduate Program Thesis Committee Member

Robert Boehm 2016 –2017
Sami Alsabri 2015 - 2017

Doctoral Advising

Michele Miller Doctoral Co-advisor 2017 – Present

Dr. Ravi Sahu

Sayali Kadam, MS, thesis director, 2017-2019
Mugdha Jaitpal, MS, leadership advisor, 2017-2018

Dr. Courtney Sulentic

Undergraduate Research Trainees:

Gabriel Crabb, WSU, BioSTAR Trainee
Justine Deeter, WSU, Biology

Graduate Research Trainees:

Nicole Panstingel, Pharm/Tox M.S.
Siham Abdulla, Pharm/Tox M.S.
Nasser Alhamdan, Microbiology/Immunology M.S., defended summer 2017

Clayton Buckner, Microbiology/Immunology M.S.

Graduate Advisory Committees:

Tahir Sulehria, BMS Ph.D.

Alan Cone (BMS representative), BMS Ph.D.

Angela Campo (BMS representative), BMS Ph.D.

Denise Kramer, BMS Ph.D.

Amanda Hanes (BMS representative), BMS, Ph.D.

Kevin Novak, (BMS representative), BMS Ph.D., defended summer 2017

Tu Thien Danh, BMS Ph.D.

Todd Lewis, BMS Ph.D. (BMS representative), defended spring 2017

Dr. Jeffrey Travers

Thesis Director:

Azzizat Awoye, MS, 2016-2018, proj. graduation 2018

Katherine Fahy, MS, 2016-2017, graduated 2017

Walid Mari MD (Richard Simmans, M.D.), graduated 2017

Thesis Advisory Committees:

Aparna Poluparthi, MS, proj. graduation 2018

Walid Mari, MS, 2016-2018, graduated 2018

Co-Advisor MD/MS Students:

Larilynn Yelton, 2015-2018, graduated 2018

Casey Walk, 2015-2018, graduated 2018

Andrew La'Pelusa, 2016-present

Jude Khatib, 2017-present

Jaree Naqvi, 2017-present

Benita Wu, 2017-present

Michael Williams, 2017-present

PhD Program Students:

Ann Collier (Dan Spandau, Ph.D./Ronald Wek Ph.D.), I.U. dissertation committee, 2013-17

Xiao Zhang, M.S. (Yanfang Chen M.D., Ph.D.), 2015-

James Readler (Kate Excoffin, Ph.D.), 2015-

Langni Liu, M.S. (Travers), 2016-

Research Fellows:

Eric Romer, PhD, 2016-2018

Michael Kemp, PhD., 2016-2017

Dr. Yong-jie Xu

Rittu Samuel, MS, thesis director, proj. graduation 2019

Darlington O Abrefa, MS, M&I, thesis director

Ramya Genesa, BMS/PhD thesis committee

Todd Lewis, BMS/PhD thesis committee

Ishita Haider, BMS/PhD thesis committee

Elliot Hayden, MD/PhD thesis committee

Committee membership/officer [indicate if committee chair]

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

Dr. Norma Adragna

Morris Symposium, Organizing Committee Member, 2013-present

Pharmacology & Toxicology Faculty Affairs and Development Committee 2000-March 2013, 2015-present, Chair.

P&T Scholarships committee, 2013-2015, chair; 2015-present.

Dr. F. Javier Alvarez-Leefmans

Member of the Faculty Affairs and Development Committee. Department of Pharmacology and Toxicology, Boonshoft School of Medicine.

Faculty Senator representing the Boonshoft School of Medicine Constituency for 2015-2017 Academic years. Current term expired at the end of the Spring Semester 2017.

Member PTX faculty teaching committee.

Dr. Yanfang Chen

Pharm/Tox Master's Program Admission Committee

Pharm/Tox Master's Program Scholarship Committee

Dr. David Cool

Faculty Promotion and Advancement (FPAC) Committee, 2014-2017

Dr. Khalid Elased

Voting Member of the BSOM Faculty Curriculum Committee.

WrightQ Writing Group.

Dr. Terry Oroszi

BSOM Continuing Medical Education Committee (CME)

Dr. Ravi Sahu

P&T Scholarship committee, 2015-present.

Pharm/Tox Admissions Committee, 2015-present

Dr. Courtney Sulentic

Student Promotions Committee, elected member, BSOM, 2017-2021

Faculty Affairs and Development Committee (FADC), Pharm/Tox

Medical Student Research Symposium Poster Judge

Dr. Jeffrey Travers

WSU Executive Committee, 2015-present

Dean's Research Chairs Committee, 2015-present

LCME Curriculum Committee, 2015-present

Academy of Medicine Board of Directors, 2015-present

Dr. Yong-jie Xu

Pharm/Tox Education Committee

Wright State University

Dr. Norma Adragna

Women in Sciences Giving Circle Faculty Awards Committee, 2015-2017.

Dr. F. Javier Alvarez-Leefmans

Member of Laboratory Animal Care and Use Committee (LACUC)/IACUC VA. Appointment ended on 09/10/17.

Committee Member, appointed by Provost Thomas A. Sudkamp, for the 360 Review of the Office of the Vice President for Research and Sponsored Programs.

Member of Student Conduct Panels (Conduct Review Panel, Academic Integrity Hearing Panel, University Appeals Panel, Gender Based Harassment and Violence Panel). Training session was on 9/ 28/17.

Dr. David Cool

BioMedical Sciences Program (BMS)

Academic Policies Committee (appointed), 2017-2018

Admissions Committee, 2015- present

Integrative Toxicology Track, 2015- present

Pharmacology & Toxicology

Workload Equity & Merit Committee, 2015- present

Comprehensive MS Program Review Committee, 2015- present

Faculty Affairs and Development Committee, 1998- present

Wright State University

Parking Appeals Subcommittee, 2017- present

Building and Grounds Committee, 2017-2019

Dr. Mike Kemp

Co-Organizer, 19th Annual Midwest DNA Repair Symposium, May 13-14, 2017.

Dr. Terry Oroszi

Faculty Senate Ad Hoc Graduate Student Success Committee

WSU International Program Oversight Committee (IPOC/IEAC)

Various PTX Department Committees

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

Search Committee for Radiation Safety Officer, 2017-present

Search Committee for Faculty position, Department of Neuroscience, Cell Biology, Physiology, 2017

Academic Policies Committee, BMS PhD program, appointed member, 2016-2017

Core Curriculum committee, BMS PhD program, elected member, 2017-2019

Women in Science Giving Circle member and Women in STEMM Leadership Institute Mentor

Dr. Jeffrey Travers

Academic Policies Committee, 2015-present

Dr. Yong-jie Xu

Curriculum Committee, BMS/PhD program

Wright State Physicians

Dr. Jeffrey Travers

Laboratory Quality Assessment and Assurance Committee, 2016-present

Professor of Dermatology, Pharmacology & Toxicology (adjunct), 2015-

Hospital or affiliated institution [name]

Dr. David Cool

Miami Valley Hospital OB/GYN

OB/GYN Translational Reproductive Health Research Grant Committee, 2014- present

Judge- MVH Resident Research Day- OB/GYN, 2005-present

Dr. Khalid Elased

Registered and licensed as a pharmacist in the state of Ohio.

Dr. Jeffrey Travers

Dayton VA Medical Center, Dayton, Ohio, 2015-present

Medical Licensure: Ohio, 2015-present

Board Certification: Dermatology. 1995-present

State

Dr. Saber Hussain

Affiliated member for Dayton Area Graduate Studies DAGSI

Dr. Terry Oroszi

Board Member, Infragard, Dayton Alliance Chapter/FBI

Director, Simman Wound Board

Institute for Operations Research and Management (INFORMS)

Midwest Academy of Management (MAM)

Dr. Jeffrey Travers

Ohio Academy of Dermatology

National

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 Boonshoft School of Medicine to the United States Pharmacopeia (USP) Convention. Will represent WSU at the upcoming USP Convention in 2020 at Washington, DC.

Invited to participate in the Chronic Renal Insufficiency Cohort Study Data Workshop organized by University of Pennsylvania and NIDDK, Bethesda, MD, July 13-14, 2017.

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)

Dr. Mike Kemp

Member, Honors and Awards Committee, Environmental Mutagenesis and Genomics Society

Grant Proposal Reviewer, Netherlands Organization for Scientific Research (NOW), Earth and Life Sciences Division

Manuscript Reviewer: BMC Dermatology; Cosmetics; Clinical, Cosmetic, and Investigational Dermatology, Viruses

Dr. Terry Oroszi

Infragard Alliance/FBI

DoD Homeland Defense Information Analysis Center Subject Matter Expert (SME)

Joint Chief CWMD (Countering Weapons of Mass Destruction) Education Consortium, DC

Washington DC NBC Industry Group (NBCIG)

American Council on Education (ACE)

Dr. Ravi Sahu

Reviewer/editorial services for various national and international scientific journals.

Dr. Courtney Sulentic

Awards Committee, elected member, Chair, Society of Toxicology

Undergraduate Strategy Work Group/Task Force, appointed member, Society of Toxicology

Mentor Match program, mentor, Society of Toxicology, Alicia Taylor, PhD, Post-doc at Univ of California, Berkeley

Other service:

Poster judge for Ohio Valley Society of Toxicology Annual meeting
Invited Expert, Colgate-Palmolive Luncheon, Society of Toxicology Annual Meeting
Ad-hoc reviewer for several journals

Dr. Jeffrey Travers

Grant Reviewer:

Arthritis Connective Tissue, and Skin (ACTS), permanent member 2013-2017
NIAMS T32 Review (ZAR1 YL M1), 10-2017

Veteran's Administration Review Panels

VA Oncology E Review Panel (chair) 6-2017,10-2017
VA Promotions Committee (RCSR 1 Workgroup) 5-2017, 10-2017

Other

Dr. David Cool

Director of the Proteome Analysis Laboratory, 2004-present

Dr. Jeffrey Travers

American Society for Clinical Investigation, 2007-present

External Advisor, Christian Doppler Laboratory on Biotechnology of Skin Aging, Vienna Austria
2013-present

External Advisor, University of Wisconsin NIAMS P30, 2016-present

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.

External Advisor, NIH/NIAMS-sponsored Skin Disease Research Core (P30) grant, University of Wisconsin
Department of Dermatology, 2016-present

7

Patient Care Summary

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

Dr. Jeffrey Travers

Dermatology Clinics at WSP (2 per week)
Dermatology Clinics at Dayton VAMC (1 per week)

8 Honors and awards [Faculty or staff]

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 quest speakers:

Dr. Edward D. Hall, William R. Markesbery, M.D. Chair in Neurotrauma Research Spinal Cord and Brain Injury Research Center and Professor of Anatomy & Neurobiology, Neurology, Neurosurgery and Physical Medicine & Rehabilitation, University of Kentucky Chandler Medical Center.

Dr. Eric Delpire, Professor of Anesthesiology, Molecular Physiology and Biophysics, Division of Research, Department of Anesthesiology, Vanderbilt University Medical Center.

Member of 10 Scientific Societies.

Reviewer of > 20 Scientific Journals.

Development of new field of research.

Preparing new courses in old and newly acquired fields of expertise.

Dr. F. Javier Alvarez-Leefmans

Pharm. and Tox. Lecture on faculty meeting 11/3/17. "Cation-chloride-cotransporters in primary sensory neurons signaling and in CSF secretion: basic and translational significance"

Certificate of appreciation by the Office of Research and Sponsored Programs for my 9 and a half years of uninterrupted service in the Institutional Animal Care and Use Committee

Dr. Ji Bihl

Submitted grants

NIH R01, PI, 2018-2023, COMBINATION OF EXOSOMES FROM MIR-PRIMED ENDOTHELIAL PROGENITOR CELLS AND NEURAL PROGENITOR CELLS FOR TREATING ISCHEMIC STROKE, Submitted on February 2018.

NIH RO1, Co-PI, 2018-2023, BALANCE OF ANGIOTENSIN II/ANGIOTENSIN (1-7): A TARGET IN ISCHEMIC STROKE", Submitted on February 2018.

Submitted papers

Ma X, Wang J, Li J, Ma C, Chen S, Lei W, Yang Y, Liu S, Bihl J#, Chen C, "Loading miR-210 in EPCs derived exosomes boosts their beneficial effects on H/R-injured human endothelial cells via protecting mitochondrial function," submitted to Cell Physiol Biochem. In press.

Ma C, Wang J, Liu H, Chen Y, Ma X, Chen S, Chen Y, Bihl J#, Yang Y, " Moderate exercise enhances the release and miR-126 level of EPC-EXs for EC protection," submitted to Medicine & Science in Sports & Exercise. Under revision.

Dr. David Cool

COLLABORATIONS & CONSULTANTS

Dr. Ray Bahado-Singh, Beaumont Health Research Center, MI., Proteomics, 2016- present

Dr. Steven Lindheim OB/GYN Neu(5)GC in Infertility, endometriosis, vulvodynia, 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. James Olson- Emergency Medicine & NCBP (RET), Biomarkers of Stroke, Patent Filed, Ongoing Research Project, 2003- present

Dr. Mike Hennesy- Dept of Psychology, Wright State University- Stress Markers in animal shelter Animals, 2018 - present

Dr. Khalid Elased

Delegate of the WSU Boonshoft School of medicine to the United States Pharmacopeia.

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. 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 Sulentic for collaborative project – there is potential PhD student may work in this project.

Dr. Terry Oroszi

Director, Pharm/Tox MS program
Director, CBRN Defense Program
Community Service: FBI, Infragard, Think Tank, ATIC, NCMR

Dr. Courtney Sulentic

Facilitate career development for students

Dr. Jeffrey Travers

Proctor & Gamble. Skin eruptions from Tide Pods 2017-

Professional Societies:

American Society for Clinical Investigation (ASCI), 2007-present
American Society for Biochemistry and Molecular Biology, 2003-present
Alpha Omega Alpha Medical Honor Society, 1990-present
American Academy of Dermatology, 1996-present
Ohio Dermatological Association, 2016-present
Sigma Xi, 1990-present
Society for Investigative Dermatology, 1995-present