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
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

<table>
<thead>
<tr>
<th>Name of Division or Program</th>
<th>Director</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Biophysics</td>
<td>Norma Adragna, PhD</td>
<td>2003-present</td>
</tr>
<tr>
<td>Proteome Analysis Laboratory</td>
<td>David Cool, PhD</td>
<td>2004-present</td>
</tr>
<tr>
<td>Master’s Program</td>
<td>Terry Oroszi, EdD</td>
<td>2008-present</td>
</tr>
<tr>
<td>Nanotoxicology Research</td>
<td>Saber Hussain, PhD</td>
<td>2010-present</td>
</tr>
<tr>
<td>CBRN Certificate Program</td>
<td>Terry Oroszi, EdD</td>
<td>2013-present</td>
</tr>
<tr>
<td>Therapeutics Curriculum</td>
<td>Mary Jo Trout, PharmD</td>
<td>2013-present</td>
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<tr>
<td>Training Program (BioSTAR, GradPrep)</td>
<td>Courtney Sulentic, PhD</td>
<td>2015-present</td>
</tr>
<tr>
<td>Preclinical Pharmacology Core</td>
<td>Yanfang Chen, MD, PhD</td>
<td>2015-present</td>
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<tr>
<td>Pharmacology Translation Unit (PTU)</td>
<td>Jeffrey Travers, MD, PhD</td>
<td>2015-present</td>
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</tbody>
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### Fully Affiliated Faculty (may be the same as #2 above for some depts)

<table>
<thead>
<tr>
<th>Name and Academic Position</th>
<th>Clinical Interests</th>
<th>Research Interests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norma Adragna, PhD, Professor</td>
<td></td>
<td>Cardiovascular, ion transport, cell signaling, cellular physiology, membrane transport, cancer biology</td>
</tr>
<tr>
<td>F. Javier Alvarez-Leefmans, MD, PhD, Professor</td>
<td></td>
<td>Neuroscience, molecular physiology &amp; pharmacology, clinical neurology</td>
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<tr>
<td>Ji Bihl, MD, PhD, Assistant Professor</td>
<td></td>
<td>Cerebrovascular diseases and diabetes, specifically in developing novel predictive and therapeutic avenues for hemorrhagic stroke and vascular complications of diabetes</td>
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<tr>
<td>Yanfang Chen, MD, PhD, Professor</td>
<td></td>
<td>Cardiovascular disease, cerebrovascular complications</td>
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<tr>
<td>Yanfang Chen, MD, PhD, Professor, Director, Preclinical Pharmacology Core</td>
<td></td>
<td>Cellular mechanisms involved in neurodegeneration and</td>
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<tr>
<td>David Cool, PhD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name and Academic Position</td>
<td>Clinical Interests</td>
<td>Research Interests</td>
</tr>
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<td>------------------------------------------------</td>
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</tr>
<tr>
<td>Mauricio Di Fulvio, PhD. Assistant Professor</td>
<td></td>
<td>neuroinflammation in response to diseases and chemical toxicity.</td>
</tr>
<tr>
<td>Khalid Elased, PhD, PharmD, Professor</td>
<td>Diabetes</td>
<td>Proteomic and genomic changes in response to endocrine diseases.</td>
</tr>
<tr>
<td>Saber Hussain, PhD, Professor</td>
<td>Nanoparticles</td>
<td>Developing protocols and facilities for proteome, lipid and carbohydrate analysis.</td>
</tr>
<tr>
<td>Mike Kemp, PhD, Research Assistant Professor</td>
<td>How human cells maintain the integrity of their genomic DNA, particularly in response to environmental genotoxins such as ultraviolet (UV) light.</td>
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<tr>
<td>Terry Oroszi, EdD, Assistant Professor</td>
<td>Group decision making and meeting behaviors</td>
<td></td>
</tr>
<tr>
<td>Mary Jo Trout, PharmD, Assistant Professor</td>
<td>Cancer pharmacology</td>
<td></td>
</tr>
<tr>
<td>Jeffrey Travers, MD, PhD, Professor and Chair Pharm/Tox Professor of Dermatology Staff Physician, Dayton VA Medical Center</td>
<td>Translational medicine</td>
<td>Skin inflammation/cancer, lipid pharmacology</td>
</tr>
<tr>
<td>Yong-jie Xu, MD, PhD, Associate Professor</td>
<td>Genome integrity, signaling mechanism of replicator checkpoint</td>
<td></td>
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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 Man, 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
Raj 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
Unnesha Thanekar MS, proj graduated 2019
Apama 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 Almghrabi, MS, graduated 2018
Haya Alrajea, 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:
Azzezat 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 Enukonda, 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
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, "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, **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, **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)

**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),


**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):

I1F-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 Ilkezumab 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 Baratinib 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-1 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 procarcinogenic 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-Sulentic-co-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**


**Dr. Yanfang Chen**


**Dr. David Cool**


**Dr. Mauricio Di Fulvio**


**Dr. Khalid Elased**


**Dr. Saber Hussain**


Dr. Mike Kemp


Dr. Terry Oroszi


Dr. Ravi Sahu


Dr. Courtney Sulentic


Dr. Jeffrey Travers


Dr. Yong-jie XU


Books, chapters, reviews
Dr. Yanfang Chen


Dr. David Cool


Dr. Khalid Elased


Dr. Saber Hussain


Dr. Mike Kemp


Dr. Ravi Sahu

Dr. Courtney Sulentic


Dr. Travers


Published abstracts

Dr. Norma Adragna


Dr. Ji Bihl


Dr. Mauricio Di Fulvio


Dr. Khalid Elased


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


Dr. Courtney Sulentic


Dr. Travers

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

**Dr. Norma Adragna**


**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.


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.


**Dr. F. Javier Alvarez-Leefmans**


**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, 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., (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., (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


Student poster or platform presentations  *trainee presenter from Sulentic lab
*Enukonda, 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.


*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.

*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.


**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.


**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**


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. Damkier, 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), Theraonotics (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.

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 Enukonda, 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

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
Suhasini 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
Raj Santhanakrishnan, Ph.D., BMS Rep, BMS (Bio), Proj- 2020
Prithy Maris, 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
Puma 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:
Azzezat 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.

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


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


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
National

Dr. Mauricio Di Fulvio


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

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 guest 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


**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 Arian & 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
Directors, 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