Department of/Office of Pharmacology & Toxicology

Annual Report:

July 1, 2019 – June 30, 2020

Jeffrey Travers, MD, PhD
Professor and Chair, Pharmacology & Toxicology
Staff Physician, Dayton VA Medical Center
Statement from the Chair/Associate Dean

The Department of Pharmacology & Toxicology continues to move forward in positive fashion on the educational, investigative and service fronts. 2019-2020 was 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.

Under the expert leadership of Dr. Terry Oroszi and assisted by Ms. Catherine Winslow, and new coordinator Ms. Corinne Thaxton, the MS program overall has achieved modest growth, and since 2018 the Program has had in place an on-line curriculum. With the current COVID 19 pandemic, having the on-line program in place allowed the Department to quickly adapt to the changing educational landscape. In addition, the MD-MS program has been re-vamped to fit with the changes in the medical school curriculum. Finally, we have approval to initiate our clinical MS program designed by Dr. Oroszi and a group of external consultants who she directed that takes advantage of the clinical training in the Pharmacology Translational Unit. This new program will provide training for those with interest in human clinical trials.

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. We have also begun a monthly MS student research forum where students provide a brief update of their research. Finally, we continue to produce a departmental newsletter three times a year that highlights faculty, staff, and student accomplishments.

Dr. Jinju Wang was hired as a Research Assistant Professor.

At present, almost all full-time faculty are either funded by (either PI or have % effort) or are submitting extramural grant proposals. The most recent being Drs. Bihl and Kemp receiving NIH R01 grants. Dr. Travers renewed one of his chronic NIH R01s will now be funded until 2024 (from 1999-2024). His group also was notified that one of his VA Merit grants was awarded senior status and thus will be funded for 8 years (until 2028).

We continue to invest and expand our departmental cores: Proteomics, Pharmacology Translational Unit, and the Preclinical Pharmacology core.

Regarding the Pharmacology Translational Unit (PTU), we currently have more than ten 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, an RN coordinator, and a regulatory specialist. We hired Dr. Craig Rohan, a dermatologist as a part-time (20% effort) faculty to assist in the PTU as well in the educational and research missions. The Department has also awarded a small pilot grant to Dr. Ulas Sunar in Engineering to assist his studies characterizing mesoscopic imaging of human skin.

Another initiative has been to develop stronger long-term relationships with the Wright Patterson Air Force Base to enhance the educational, research and service missions of the Department. With the assistance of Dr. Oroszi, the Department has developed an arrangement whereby long-term adjunct faculty Dr. Saber Hussain and some of his research group will be occupying departmental laboratory space.

Lastly, our Department will continue to collaboratively work with each other and other faculty at Wright State University. Though the pandemic did slow our progress, we look at this as a temporary issue and the Department will continue to thrive and effectively pursue our three missions of Education, Research and Service.
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Programs/Divisions

<table>
<thead>
<tr>
<th>Name of Division or Program</th>
<th>Director</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<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>
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<tr>
<td>Preclinical Pharmacology Core</td>
<td>Yanfang Chen, MD, PhD</td>
<td>2015-present</td>
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<tr>
<td></td>
<td>Ji Bihl, MD, PhD</td>
<td>2019-present</td>
</tr>
<tr>
<td>Pharmacology Translation Unit (PTU)</td>
<td>Jeffrey Travers, MD, PhD</td>
<td>2015-present</td>
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</tbody>
</table>

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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>
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</thead>
<tbody>
<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>David Cool, PhD, Professor, Director, Proteome Laboratory</td>
<td></td>
<td>Cellular mechanisms involved in neurodegeneration and neuroinflammation in</td>
</tr>
<tr>
<td>Name and Academic Position</td>
<td>Clinical Interests</td>
<td>Research Interests</td>
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<tr>
<td>Mauricio Di Fulvio, PhD, Associate Professor</td>
<td></td>
<td>response to diseases and chemical toxicity</td>
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<td></td>
<td></td>
<td>Proteomic and genomic changes in response to endocrine diseases.</td>
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<tr>
<td></td>
<td></td>
<td>Developing protocols and facilities for proteome, lipid and carbohydrate analysis</td>
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<tr>
<td>Khalid Elased, PhD, PharmD, Professor</td>
<td></td>
<td>Diabetes</td>
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<tr>
<td>Saber Hussain, PhD, Professor</td>
<td></td>
<td>Diabetes, cardiovascular</td>
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<tr>
<td>Mike Kemp, PhD, Assistant Professor</td>
<td></td>
<td>Nanoparticles</td>
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<tr>
<td></td>
<td></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></td>
<td>Healthcare and Homeland Security (Terrorism/CBRN/Crisis Decision making)</td>
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<tr>
<td>Director, MS Graduate Program</td>
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<tr>
<td>Director, CBRN Defense Certificate Program</td>
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<td>Co-chair EMGP Advisory Board</td>
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<tr>
<td>Craig Rohan, MD, Assistant Professor, Pharm Tox, Associate Clinical Professor, Dermatology</td>
<td></td>
<td>Clinical Trials, Wright State Translational Unit</td>
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<tr>
<td>Ravi Sahu, PhD, Assistant Professor</td>
<td></td>
<td>Cancer pharmacology</td>
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<tr>
<td>Courtney Sulentic, PhD, Associate Professor</td>
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<td>Immunology</td>
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<tr>
<td>Jeffrey Travers, MD, PhD, Professor and Chair Professor of Dermatology</td>
<td></td>
<td>Translational medicine</td>
</tr>
<tr>
<td>Staff Physician, Dayton VA Medical Center</td>
<td></td>
<td>Skin inflammation/cancer, lipid pharmacology</td>
</tr>
<tr>
<td>Yong-jie Xu, MD, PhD, Associate Professor</td>
<td></td>
<td>Genome integrity, signaling mechanism of replicator checkpoint</td>
</tr>
</tbody>
</table>

## Teaching

**Baccalaureate** [any course for a bachelor’s degree]

**Dr. Mike Kemp**

Rebekah Hutcherson, Honors Undergraduate Research, 2018-2019, graduated May 2019

**Dr. Ravi Sahu**

Andrew Forino, B.S., Anatomy, spring 2020
Dr. Courtney Sulentic

M&I 4260/BMS 8020/PTX 8260 Microbiology and Immunology, Lecturer (9.5 hrs), fall 2019

Dr. Jeffrey Travers

Lecture in BMB2000 careers in biomedical research
Ramzi Elased, undergrad/Harvard, May, 2019-present

Dr. Yong-jie Xu

Brittany Hawley (Jan. 2019- Feb 2020): ASK program at COSM, WSU

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

Dr. F. Javier Alvarez-Leefmans

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

Mentor, Leader Admin students:
Abeer Najjar
Kimberly Thomas
Ram Vallabaneni

Dr. Ji Bihl

PTX 8000, Cell Culture Training, Spring
PTX 8000, Cell Culture Training, Summer
PTX 8000, Cell Culture Training, Fall
PTX 8014, Integrative Pharmacology and Toxicology, Summer
PTH 816, Overview of Animal Research, Fall

Postdoctoral Fellow:
Jinju Wang, PhD, 2016-present (Post-doc Fellowship Award, AHA, 2 yr grant, 10 papers)

Thesis Director:
Manasi Halurkar, MS, 2017-present, graduated summer 2019
Venkata Sai Usha Sri Polaki, MS, 2018-present
Sri Meghana Yerrapragada, MS, 2019-present

Thesis Advisory Committees:
Pariksha Thapa, MS, 2019 graduated

Visiting Scholar:
Yuchen Li, PhD, 2019-2019

Mentor, Leader/Admin Students:
Bissan Hassan, 2018-2019, graduated

Lab Rotations:
Shweta Bhadri, MS, 2019
Modhi Alshammari, MS, 2019
Arwa Alrasheed, MS, 2019
Venkata Arikatla, MS, 2019
Dr. Yanfang Chen

PTX 8000, Cell Culture Training, Spring
PTX 8000, Cell Culture Training, Summer
PTX 8014, Integrative Pharmacology and Toxicology, Summer
PTX 7021, Effective Scientific Writing 1, fall 2019
PTX 7022, Effective Scientific Writing 2, spring 2020

Thesis Director:
Kartheek Pothana, MS, 2018-2020

Thesis Advisory Committee:
Manasi Halurkar, MS, 2018, graduated 2019
Venkata Sai Usha Sri Polaki, MS, 2018-2020, proj graduation summer 2020
Langni Liu, BMS PhD, 2014-present, proj defense summer 2020

Visiting Scholar:
Hua Liu, MD, PhD, 2018-2019
Zhirong Ye, MD/MS, 2019-2020

Mentor, Leader/Admin Students:
Sri Donepudi, MS 2018-2019, graduated
Prashanth Reddy Penthala, MS 2019-2020

Dr. David Cool

PTX 7020, Laboratory Management, Classroom, Director
PTX 7020, Laboratory Management, Online MS students, Director
PTX 7020, Laboratory Management, MD/MS, Director
PTX 7500, Research Techniques, Director
BMS 805, Intercellular Communication, 4 hours

Thesis Director:
Hima Priya Yenuga, MS, 2018-2020
Arwa Hosawi, MS, 2019-2021

Thesis Advisory Committees:
Brian Stodgill, BMS/PhD, proj. graduation 2019
Jenny Jurcsisin, BMS/PhD, proj. graduated 2019
Raji Santhanakrishnan, BMS/PhD, graduated 2019
Prithy Martis, BMS/PhD, proj. graduation 2020
Soham Parikh, BMS/PhD, proj. graduation 2020
Ben Schmitt, BMS/PhD, proj graduation 2020
Jananie Rockwood, BMS/PhD, proj graduation 2022
Adaku Ume, MD/PhD, proj graduation 2022
Phillip Walker, MD/PhD, proj graduation 2021
Xiu Huan Yap, BMS/PhD, proj graduation 2022
Hannah Shows, BMS/PhD, proj graduation 2022

Dr. Mauricio Di Fulvio

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

Thesis Director:
Yakshkumar Rathod, MS, 2018-present
Rana Abdeliawad, MS, 2019-present
Modhi Alshammari, MS, 2019-present
Mentor, Leader/Admin Students:
Ambika Shoemaker, 2018-2020, graduated

Committee Member:
Charles Luu, BMS/PhD, 2019-present
Abdulla Alshudukhi, BMS/PhD, 2019-present
Tahir Amin Sulehria, BMS/PhD, 2019-present

Dr. Khalid Elased
PTX 7001, Cellular Pharmacology & Toxicology, Co-Director
PTX 9021, Effective Scientific Writing 1, Co-Director
PTX 9022, Effective Scientific Writing 2, Co-Director

Thesis Director:
Unmesha Thanekar MS, proj graduated 2019

Thesis Committee:
Leonid M Yermakov, MD/PhD, 2018-present
Christiana Draper, MD/PhD, 2018-present
Adaku Ume, MD/PhD, 2018-present
Yakshkumar Diliphbhai Rathod, MS, proj 2018-2020

Mentor/lab, Leader/Admin:
Abeer Najjar, MS, graduated 2020
Harshal Sawant, MS, proj graduation summer 2020

Dr. Saber Hussain
Advisor Leadership Students (due to being at WPAFB):
Madeline DeBrosse, MS, proj. graduation 2019

Dr. Mike Kemp
PTX 7012, Intro to Research
PTX 8007, Career Planning in Pharmacology & Toxicology, Fall 2019, Developed this course
PTX 8020, Pharmacology & Toxicology of DNA Damaging Agents, spring 2020

Thesis Director:
Kavya Shaj, PharmD, MS, 2017-2019, graduated August 2020
Abdulrahman Alkawar, MS, 2018-2020, graduated May 2020
Mariyyak Madkhali, MS, 2019-2020, graduated May 2020
Amber Castellanos, MS, 2019-2020, graduated May 2020
Vivek Gousetti, MS, 2019-present, proj graduation spring 2021
Nandeen Anabtawi, MS, 2019-present, proj graduation spring 2021
Meghana Ginugu, MS, 2019-present, proj graduation spring 2021

Doctoral Thesis Supervision
William Cvammen, BMS/PhD, 2020

Postdoctoral Training
Alex Carpenter, PhD, January 2020-present

Dr. Terry Oroszi
Summer 2019
PTX 7022, Effective Scientific Writing Part 1, 3 credit hours
PTX 7022, Effective Scientific Writing Part 2, 3 credit hours
PTX 8004, Medical Chem, Rad, and Nuc Defense, 3 credit hours
PTX 8005, Medical Biological Defense, 3 credit hours
PTX 8006, Case Studies for CBRN Defense, 3 credit hours
PTX 8000, Leadership: Theory and Application, 3 credit hours

**Fall 2019**
PTX 7022, Effective Scientific Writing Part 1, 3 credit hours
PTX 8004, Medical Chem, Rad, and Nuc Defense, 3 credit hours
PTX 8005, Medical Biological Defense, 3 credit hours
PTX 8006, Case Studies for CBRN Defense, 3 credit hours
PTX 8000, Leadership: Theory and Application, 3 credit hours
PTX 7012, Introduction to Research, 1 credit hour
PTX 7000, Biostatistics, 3 credit hours
PTX 7005, Clinical Investigation Capstone, 1 credit hours

**Spring 2020**
PTX 7000, Healthcare and Homeland Security Journal Club, 1 credit hour
PTX 7021, Effective Scientific Writing Part 1 (MD/MS), 3 credit hours
PTX 7022, Effective Scientific Writing Part 2 (MD/MS), 3 credit hours
PTX 8000, Leadership: Theory and Application, 3 credit hours
PTX 8140, Human Studies Research, 3 credit hours

**Summer 2020**
PTX 7000, Healthcare and Homeland Security Journal Club, 1 credit hour
PTX 7022, Effective Scientific Writing Part 2 (MD/MS), 3 credit hours
PTX 8140, Human Studies Research, 3 credit hours

**Co-Advisor MD/MS Students:**
Andrew La'Pelusa, 2016-present
Jude Khatib, 2017-present, graduated 2020
Jaree Naqvi, 2017-present, graduated 2020
Benita Wu, 2017-present, graduated 2020
Michael Williams, 2017-present, proj graduation fall 2020
Roy Chen, 2018-present
Sabina Bashir, 2018-present
Ryan Gabbard, 2018-present
Cameron McGlone, 2018-present
Rob Hoopes, 2018-present
Steven Repas, 2019-present
Zafer Sattouf, 2019-present
Sharlo Bayless, 2019-present
Jacob Dickman, 2019-present
Benjamin Schmeuesser, 2019-present,
Janet Lubov, 2020-present
Manansi Kulkarni, 2020-present
Danielle Corbin, 2020-present

**Doctoral Advising/Co-advisor:**
Michele Miller, PhD, 2017-present

**Dr. Craig Rohan**
Rotation of MD/MS students at Wright State Physicians, WPAFB, and Dayton VA

**Dr. Ravi Sahu**
PTX 7021, Effective Scientific Writing 1, fall 2019
PTX 9220, Effective Scientific Writing 2, Director, spring 2020
PTX 7011, Thesis Development Workshop, spring 2020
PTX 8014, Integrative Pharmacology & Toxicology, summer 2019
PTH 8407, Overview of Animal Research for MD students BSOM, summer 2019

**Thesis Director:**
Sayali Kadam, MS, proj. graduation 2019, summer switched to L/A
Shreepa Chauhan, MS, 2018-2020, graduated 2020

**Thesis committee:**
Oladay Oyebanji, MS, graduated 2020
Hima Priya Yenuga, MS, graduated 2020
Felicia Gooden, PhD student, 2018-present

**Mentor Leader/Admin Students:**
Abdullah Althaiban, MS, 2018-2019
Haji Muhammad Salleh Syaza Ayuni, MS, graduated 2019
Harshini Mallipeddi, MS, graduated 2019
Anita Thyagarajan, PhD, Research Scientist, 2015-present

**Dr. Courtney Sulentic**

PTX 7300, Cellular Pharmacology & Toxicology, Directory
M&I 7260/BMS 8020/PTX 8260 Microbiology and Immunology Seminar Course, co-director (24.5 hr); Fall 2019
BMS 8050, Intercellular Communication, lecturer, spring 2020 4.5 hours

**Graduate Research Trainees:**
Miliben Bhakata, M&I MS, 2018-present
Clayton Buckner, M&I MS; transitioned to BMS PhD program, 2019-present
Sydney White, P/T MS, 2019-present
Valerie Benedict, Anatomy M.S.
Salina Daniels, Biology M.S., graduated non-thesis January 2020
Eric Reed, BMS Ph.D. program; co-advisor Tyler Nelson, Ph.D. Wright Patterson AFB
Soham Parikh, BMS Ph.D. program; co-advisor Sharmila Mukhopadhyay, Ph.D., Dept. of Mechanical Engineering, WSU

**Graduate Advisory Committees, BMS PhD:**
Hannah Shows
Rujuta Gadgil (BMS representative)
Amjed Aljagthmi (BMS representative)
Asthana Shakya (BMS representative)
Tahir Sulehria
Angela Campo (BMS representative)

**Mentor Leader/Admin Students:**
Harshal Sawant, MS, 2018-present
Vishwanath Gampala, MS, 2018-present
Philip Ndoki, 2018-2019, graduated

**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:**
Avinash Mahajan, MS, 2018-present  
Simon Oyebanji, MS, 2018-graduated 5-2020  
Pariksha Thapa, MS, 2018-graduated 5-2019

**Thesis Advisory Committees:**
Aparna Poluparthi, MS, proj. graduation 2018  
Walid Mari, MS, 2016-2018, graduated 2018  
Shreepa Chauhan, MS, 2018-present, graduated 2020  
Mariyyah Madkhali, MS, 2018-present, graduated 2020  
Hima Priya Yenuga, MS, 2018-present, graduated 2020

**Co-Advisor MD/MS Students:**
Andrew La'Pelusa, 2016-present  
Jude Khatib, 2017-present, graduated 2020  
Jaree Naqvi, 2017-present, graduated 2020  
Benita Wu, 2017-present, graduated 2020  
Michael Williams, 2017-present, proj graduation Dec 2020  
Roy Chen, 2018-present  
Sabina Bashir, 2018-present  
Ryan Gabbard, 2018-present  
Cameron McGlone, 2018-present  
Rob Hoopes, 2018-present  
Steven Repas, 2019-present  
Zafer Sattouf, 2019-present  
Sharlo Bayless, 2019-present  
Jacob Dickman, 2019-present  
Benjamin Schmeusser, 2019-present  
Janet Lubov, 2020-present  
Manansi Kulkarni, 2020-present  
Danielle Corbin, 2020-present

**PhD Program Students:**
Langni Liu, 2016-present, proj graduation 2020

**Dr. Yong-jie Xu**

PTX 7002, Thesis Development course  
BMS 9940, Introduction to Research  
PTX 7021, Effective Scientific Writing

**Thesis Director:**
Alaa Mahdi, MS, 2018-present

**Thesis committee members:**
Ishita Haider (PhD student in Dr. Quan Zhong’s lab):  
Amanda Myers (PhD student in Dr. Weiwen Long’s lab)  
Rujuta G. Yashodhan (PhD student in Dr. Michael Leffak’s lab)

**Rotation Graduate Students:**
Sankhadip Bhadra (Dec 2019-Mar, 2020) PhD student from the BMS program, 1st lab rotation.  
Nadeen Anabatawi (Sept. 2019): MS student in the Dept of Pharm Tox.  

**Postdoctorals:**
Nafees Ahamad, PhD  
Saman Khan, PhD
Undergraduate medical education [medical school]

Dr. Javier Alvarez-Leefmans
Wright Q Year 1, Staying Alive

Dr. Ji Bihl
PTH 816, Overview of Animal Research, Fall

Dr. David Cool
Wright Q Year 2 Group 10 Beginning to an End, balance control and repair
Wright Q Year 2 Group 11 Beginning to end, Balance control and Repair, fall 2018

Dr. Khalid Elased
Wright Q Legacy Curriculum, facilitator
Hypertension
Myocardial Infraction and Angina
Atrial fibrillation & Aortic stenosis
Urinary Tract Infection
Asthma
Acute Renal Failure
Congestive Heart Failure
Shock

Dr. Courtney Sulentic
Wright Q Legacy Curriculum, facilitator, Beginning to End, Balance, Control Repair, Fall winter 2019-2020
Wright Q Legacy Curriculum, facilitator, Staying Alive, Fall Winter 2019-2020

Research Mentor for BSOM M2 Students:
Rachel Rhee, 2019
Shaigan Bhatti, 2019

Dr. Jeffrey Travers
Pathobiology and Therapeutics Module for 2nd year Medical Students.
Co-led Problem-Based Learning Modules for “Dermatology infectious rashes”, 2019

Graduate medical education [residents, fellows]

Dr. Craig Rohan
Dermatology, Pediatrics and Internal Medicine residents routinely rotate in the clinic. Presents regular lectures to multiple academic departments.

Dr. Jeffrey Travers
Department of Dermatology, Resident student lectures (4)
Continuing medical education [grand rounds, seminars]

**Dr. Ji Bihl**


**Dr. Craig Rohan**

In the past year, since coming on faculty at Wright State, I have given invited lectures at the Air Force Global Health Conference and gave a grand rounds lecture to the Department of Emergency Medicine. I am a regular participant at Wright State’s Department of Dermatology Grand Rounds.

**Dr. Jeffrey Travers**

Dermatology Grand Rounds, Wright State Physicians, monthly

**Other**

**Dr. Courtney Sulentic**

Naazy Eman, Mentor for Women Walking West  
Alicia Taylor, PhD, Mentor Match Program, Early Career Toxicologist

**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.

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**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. Ji Bihl**

NIH R01 (NHLBI, 2R01HL062996), PI- Travers, Co-investigator (10%), $15,000,000, 01/2020-11/2023  
Effects of prolonged, trophoblast-specific Hif-1alpha on placental function and preeclamptic symptoms  
Platelet Activating Factor and Epidermal Cytotoxicity.  
The major goal of this project is to investigate the combinatorial impact of short-term ethanol exposure and thermal burn injury on platelet-activating factor and microvesicle particles in keratinocytes leading to multi-organ dysfunction.

VA (IBX000853D), PI- Travers, Collaborator, $3,200,000, 01/2020-11/2023
Platelet Activating Factor and Epidermal Cytotoxicity.
The major goal of this project is to investigate the impact of UVB exposure on platelet-activating factor and microvesicle particles in keratinocytes leading to immunosuppression.

NIH R01 (NINDS), 1R01NS102720, PI 05/01/2018-12/31/2023, Exosmes From MIR-Primed Endothelial Progenitor Cells for Treating Ischemic Stroke, Yanfang Chen, Co-PI, $1,875,000

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.

AHA Postdoctoral Fellowship Award, 18POST33990433, Supervisor, 07/01/2018-12/31/2020, The Regulatory Effect of Exercise on Circulation EPC-Exs and Its Implication in Ischemic Stroke, $110,000.

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. Saber Hussain
Air Force Office of Scientific Research (AFOSR), Hussain, PI
Biomolecular Interaction of Nanomaterials (6.1), 2019-2021, $1,000,000
Radiogenetics, human performance augmentation, 2016-2019, $75,000
Seedling Funding ($100K)

Selected AFOSR Star Team Award, top 1%
Consortium Funding for postdoc $150, NRC $300,000
DAGSI Funding for graduate Student, $50,000

Dr. Mike Kemp
NIH GM130583, PI, DNA Damage Kinase Signaling in Non-replicating Human Cells and Tissues, awarded 2/1/19.

NIH ES030113 (Co-investigator; sub-contract) – “Circadian clock disruption: A risk factor for environmental mutagenesis”; awarded 1/18/20

Dr Craig Rohan
I am a co-investigator or sub-investigator for 13 clinical pharmaceutical/ VA or NIH trials.
**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.

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

**Dr. Jeffrey Travers**

**Pharmaceutical-sponsored studies:**

103A-301  10/01/2015 to 9/30/2021  
Polynoma, LLC  
A Multicenter, Double-blind, Placebo-controlled, Adaptive Phase 3 Trial of POL-103A Polyvalent Melanoma Vaccine in Post-resection Melanoma Patients (Stage IIb, IIC and III) with a High Risk of Recurrence.  
Our Pharmacology Translational Unit is one of the participating sites.

Corrona Psoriasis Registry  07/01/2016 to 06/30/2021  
National Psoriasis Foundation  
The Corrona Psoriasis Registry is a prospective, non-interventional, research study for patients with psoriasis under the care of a dermatologist. Target enrollment is approximately 10,000 patients with no defined upper limit on enrollment. Approximately 200 clinical dermatology clinics in North America will be recruited to participate. Our Pharmacology Translational Unit is one of the participating sites.

I1F-MC-RHCD12/1/2016  06/30/2021  
Eli Lilly and Company  
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 is one of the participating sites.

LP0162-1326  3/15/2017 to 3/1/2019  
Leo Pharmaceuticals  
A Phase 3 trial to provide evidence of the efficacy and safety of tralokinumab monotherapy in the treatment of subjects with moderate-to-severe AD inadequately controlled with topical therapies. Such subjects would be candidates for systemic therapy. Our Pharmacology Translational Unit is one of the participating sites.

I4V-MC-JAIW  2/20/2018 to 2/28/2021  
Eli Lilly and Company  
A Phase 3, multicenter, randomized, double-blind, placebo-controlled, parallel-group, outpatient, 113-week study designed to evaluate the efficacy and safety of baricitinib 1-mg and 2-mg in patients with moderate to severe atopic dermatitis. Our Pharmacology Translational Unit is one of the participating sites.

I4V-MC-JAIIX  4/20/2018 to 2/28/2022  
Eli Lilly and Company  
A Phase 3, Multicenter, Randomized, Double-Blind, Open-Label, Parallel-Group, Outpatient, Extension study designed to evaluate the efficacy and safety of baricitinib 1-mg and 2-mg in patients with moderate to severe atopic dermatitis. Our Pharmacology Translational Unit is one of the participating sites.

IM011046-BMS-986165  09/01/2018 to 12/01/2019  
Bristol-Myers Squibb Company  
A Multi-Center, Randomized, Double-Blind, Placebo- and Active Comparator-Controlled Phase 3 Study to Evaluate the Efficacy and Safety of BMS-986165 in Subjects with Moderate to Severe Psoriasis. Our Pharmacology Translational Unit is one of the participating sites.

I6T-MC-AMAJ  06/11/2018 to 07/01/2020  
Eli Lilly and Company  
A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study Comparing the Efficacy and Safety of Mirikizumab to Secukinumab and Placebo in Patients with Moderate-to-Severe Plaque Psoriasis. Our Pharmacology Translational Unit is one of the participating sites.
I6T-MC-AMAH  08/01/2019 to 12/01/2021
Eli Lilly and Company
A Multicenter, Randomized, Double-Blind, Extension Study Comparing the Efficacy and Safety of Mirikizumab to Secukinumab in Patients with Moderate-to-Severe Plaque Psoriasis. Our Pharmacology Translational Unit is one of the participating sites.

ASN002AD-201  06/01/2018 to 06/01/2019
Asana BioSciences, LLC
A Randomized, Double-Blind, Placebo-Controlled, Phase 2b Study to Evaluate the Efficacy, Safety, Tolerability, and Pharmacokinetics of ASN002 in Subjects with Moderate to Severe Atopic Dermatitis. Our Pharmacology Translational Unit is one of the participating sites.

ASN002AD-201-EXT  01/01/2019 to 12/01/2022
Asana BioSciences, LLC
An Open-Label Extension Study to Evaluate the Efficacy, Safety, Tolerability, and Pharmacokinetics of ASN002 in Subjects with Moderate to Severe Atopic Dermatitis. Our Pharmacology Translational Unit is one of the participating sites.

I1F-MC-RHCR  11/01/2018 to 01/01/2020
Eli Lilly and Company.
A 24 week Multicenter, Randomized, Double-Blind, Parallel-Group Study Comparing the Efficacy and Safety of Ixekizumab to Guselkumab in Patients with Moderate-to-Severe Plaque Psoriasis. Our Pharmacology Translational Unit is one of the participating sites.

CC-10004-PPSO-003  11/01/2018 to 11/01/2020
Celgene Corporation
A Phase 3 Placebo Controlled Study in Pediatric Subjects from 6 to 17 Years with Moderate to Severe Plaque Psoriasis. Our Pharmacology Translational Unit is one of the participating sites.

CC-10004-PSOR-022  12/01/2018 to 12/01/2020
Celgene Corporation
A Phase 3, Multicenter, Randomized, Placebo-Controlled, Double-Blind Study of the Efficacy and Safety of Apremilast (CC-10004) in Subjects with Mild-to-Moderate Plaque Psoriasis. Our Pharmacology Translational Unit is one of the participating sites.

CAIN457A2324  08/01/2018 to 08/01/2020
Novartis
A randomized, double-blind, multicenter study assessing short (16 weeks) and long-term efficacy (up to 1 year), safety, and tolerability of sub-cutaneous secukinumab in subjects of body weight 90 kg or higher with moderate to severe chronic plaque-type psoriasis. Our Pharmacology Translational Unit is one of the participating sites.

LP0162-1337  09/01/2018 to 09/01/2019
LEO Pharmaceuticals
An open-label, single-arm, multi-centre, long-term extension trial to evaluate the safety and efficacy of tralokinumab in subjects with atopic dermatitis who participated in previous tralokinumab clinical trials. Our Pharmacology Translational Unit is one of the participating sites.

ALX-101-ATOP-204  03/01/2019 to 03/01/2020
Asana BioSciences, LLC
A Phase2, Randomized, Double-Blind, Vehicle-Controlled, Parallel-Group Study to Evaluate the Safety and Efficacy of ALX-101 Topical Gel Administered Twice Daily in Adults and Adolescents with Moderate Atopic Dermatitis. Our Pharmacology Translational Unit is one of the participating sites.

I6T-MC-AMBK  04/01/2019 to 03/01/2020
Eli Lilly and Company
An Open-Label Evaluation of Mirikizumab Following Subcutaneous Administration Using Prefilled Syringe or Autoinjector in Patients with Moderate-to-Severe Plaque Psoriasis. Our Pharmacology Translational Unit is one of the participating sites.
An Investigator-Initiated Study to Evaluate the Efficacy of Baricitinib in Treatment of Delayed-type Hypersensitivity versus Irritant Skin Reactions in Healthy Adult Male Subjects. Our Pharmacology Translational Unit is the only site for this Investigator-initiated study.

Celgene
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:

(ACTIVE)

R01 HL062996 (Travers) 07/01/1999 to 6/30/2024 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.

Basic Science VA Merit Award (Travers) 10/01/2010 to 03/31/2028 20% VA effort
510BX000853 $146,000 direct costs/year
Oxidized lipids and UV immunosuppression
The objective of this study is to define the role of microvesicle particles in UVB-mediated systemic immunosuppression using murine and human model systems. This grant received a 6% and thus will be renewed until 2024. This grant accepted for Senior Clinical Research Award status and thus will be renewed until 2028.

Clinical VA Merit Award (Travers) 7/01/2014 to 6/30/2024 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. These studies were renewed with 0.7% score for another 4 years.

R01 AG048946-01 (Travers/Spandau-co-PIs) 09/01/2014 to 04/30/2020* 20% effort
"No cost extension
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 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.
Photodynamic Therapy-Induced Immune Modulation: Mechanisms and Influence on Therapeutic Efficacy

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

Dr. Yong-jie Xu

RO1-GM110132, NIH/NIGMS, (2/1/2015 - 1/31/2021), Title: Signaling Mechanism of the DNA Replication Checkpoint. Total Cost (DC + IDC): $1,350,500

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. Maurio Di Fulvio


Dr. Khalid Elased


Dr. Saber Hussain
(21,531),(987,951)
of cisplatin but increases mutagenesis. Mutation Research. 816-818: 111678.

Dr. Terry Oroszi

Oroszi, T. Competency-Based Education, Creative Education, 2020


Oroszi, T. Group Interaction, and Behavior in Meetings: A New Assessment Tool to Monitor Group Behavior, Creative Education, Vol. 11, No. 4, PP. 596-604. 2020

Oroszi, T. Egos at the Table, a Study of Meeting Behaviors, Psychology. Vol.11 No. 4, PP. 636-645. 2020

Oroszi, T. Organizational Meeting Style is Not Conducive to Group Decision Making, Advances in Applied Psychology, Vol. 10 No. 4, PP. 115-127. 2020


Dr. Craig Rohan


Dr. Ravi Sahu


Dr. Courtney Sulentic


**Dr. Jeffrey Travers**


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Books, chapters, reviews

**Dr. Ji Bihl**


**Dr. Mike Kemp**


Dr. Terry Oroszi


Oroszi, T. & Ellis, D. The Mindset of a Terrorist. In Norton, R. & Mauroni, A (eds), Preparing for Agroterror: Deliberate Threats to America’s Food Industries, 2019


Dr. Ravi Sahu


Dr. Yongjie Xu


Published abstracts

Dr. Ji Bihl


Wang J, Chen S, Bihl J (2020) “Moderate exercise has beneficial effects on mouse ischemic stroke by enhancing the functions of circulating endothelial progenitor cell-derived exosomes via activation of the miR-126/BDNF/PI3k pathway,” ISEV 2020, Philadelphia, PA


Dr. David Cool


**Dr. Mauricio Di Fulvio**

CFTR is functionally expressed in a subpopulation of endocrine cells of the mammalian islet of Langerhans and modulates insulin secretion. Di Fulvio M, Bogdani M, Kelly L, Velasco M, Hiriart M and Aguilar-Bryan L. European Cystic Fibrosis Society Basic Science Conference. Dubrovnik, Croatia • March 27-30, 2019


**Dr. Khalid Elased**


Thanekar U, Elased KM. Effect of canagliflozin on renal and urinary biomarkers for diabetic kidney disease in db/db diabetic mice. 34th Meeting of the Ohio Physiological Society held in Wright State University, Dayton, OH, September 20-21, 2019.

Hosawi A, Dhakal S, Alawi L, Sawant H, Thanekar U, Grobe N, Elased KM. Effects of Angiotensin II Type 1 A Receptor (AT1αR) on renal and urinary biomarkers of acute kidney injury in Two-kidney One Clip model of Renovascular Hypertension. 34th Meeting of the Ohio Physiological Society held in Wright State University, Dayton, OH, September 20-21, 2019

**Dr. Saber Hussain**

Total of 2- Society of Toxicology 2020

**Dr. Mike Kemp**

Journal of Investigative Dermatology (May 2019) Environmental and Molecular Mutagenesis (Sept 2019)

**Dr. Terry Oroszi**

Dr. Ravi Sahu

Shreepa Chauhan, Anita Thyagarajan, Ravi P. Sahu. The role of the Platelet activating factor-receptor in miR-149-mediated effects on lung cancer growth and treatment efficacy. The poster was presented in an annual Ohio Physiological Society (OPS) 2019 meeting.

Abdullah Altaiban, Anita Thyagarajan, Ravi P. Sahu. KRAS Pathway based Targeted Therapy Responses in Pancreatic Cancer. The poster was presented in an annual Ohio Physiological Society (OPS) 2019 meeting.

Bushra Faisal Al-Harbi, Felicia Chee-Tuan Gooden, Anita Thyagarajan, Ravi P. Sahu. Advancements in VEGF-based targeted therapy approaches for lung cancer. The poster was presented in an annual Ohio Physiological Society (OPS) 2019 meeting.

Shreepa Chauhan, Anita Thyagarajan, Ravi P. Sahu. Platelet activating factor-receptor in lung cancer growth and treatment efficacy. The poster was presented in an annual Ohio Valley Chapter of the Society of Toxicology (OVSOT) 2019 meeting.

Abdullah Altaiban, Anita Thyagarajan, Ravi P. Sahu. KRAS Pathway based Targeted Therapy Responses in Pancreatic Cancer. The poster was presented in an annual Ohio Valley Chapter of the Society of Toxicology (OVSOT) 2019 meeting.

Bushra Faisal Al-Harbi, Felicia Chee-Tuan Gooden, Anita Thyagarajan, Ravi P. Sahu. Advancements in VEGF-based targeted therapy approaches for lung cancer. The poster was presented in an annual Ohio Physiological Society (OPS) 2019 meeting.

Shreepa Chauhan, Anita Thyagarajan, Ravi P. Sahu. Platelet activating factor-receptor in lung cancer growth and treatment efficacy. The poster was presented in an annual Ohio Valley Chapter of the Society of Toxicology (OVSOT) 2019 meeting.

These posters were also presented at the annual meetings of Boonshoft School of Medicine (BSOM) Cancer Research Forum and College of Science and Mathematics (CoSM) Festival of Research.

Dr. Courtney Sulentic


**Bhakta, M., Buckner, C., Burra, K., Sulentic, C.E.W.: Differential effects of the AhR on immunoglobulin expression in a human B-cell line. Toxicological Sciences, the Toxicologist, 174:2509, 2018. (virtual meeting due to COVID19)


Dr. Travers


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

**Dr. Ji Bihl**

Role of exosomes and exosomal miRNAs in brain repair after stroke.  Department of Biomedical Science, Marshall University, Huntington, WV. March 2020.

Extracellular vesicles in stroke pathogenesis and therapy. Department of Biology, Wright State University, Dayton, OH. November 2019.


**Dr. Mauricio Di Fulvio**

Borrowing neuronal genes to better understand insulin secretion. Seminar. Dept of Neuroscience Cell Biology and Physiology. Boonshoft School of Medicine, Wright State University.

The metabolic and hormonal consequences of lacking Nkcc2a. 53rd Annual Lake Cumberland Biological Transport Group Meeting, Jamestown, KY


Chloride physiology in β-cells and insulin secretion. Boonshoft School of Medicine Central Research Forum. Wright State University

**Dr. Khalid Elased**

Presentations of two posters at the Annual Meeting of the American Heart Association in New Orleans.

**Dr. Saber Hussain**

**Organized- and Speaker:** Served in program committee of Society of Toxicology (10000 members) to review abstracts and workshop proposals (2017-2020)

**Dr. Mike Kemp**

Florida International University Biomolecular Sciences Institute, Miami, FL, April 2019.

University of Cincinnati College of Medicine Department of Molecular Genetics, Biochemistry, and Microbiology Seminar, Cincinnati, OH (Oct 2019)

DNA Repair Symposium at the 18th Congress of the European Society for Photobiology/17th International Congress on Photobiology, Barcelona, Spain (Aug 2019)

**Dr. Terry Oroszi**

Oroszi, T. National Preparedness Summit, Dallas Texas. (Terrorism), March 2020
Oroszi, T. National Security Agency (NSA) provided terrorism training to CI/S personnel. Nov 2019
Oroszi, T. FBI/InfraGard Quantico invited speaker. Nov 2019
Oroszi, T. InfraGard/ASIS Security Conference | Global Security Exchange Speaker, Chicago, IL, Sept 2019
Oroszi, T. Brief the House Intelligence and Armed Services Staff, Washington DC (Terrorism), July 2019
Oroszi, T. National Homeland Security Conference Speaker, Phoenix, AZ (Terrorism in the US), June 2019
Oroszi, T. FBI Information Sharing Initiative Guest Speaker, May 2020
Oroszi, T. Department of Agriculture. Columbus OH. Agroterrorism, March 2020
Oroszi, T. Institute of Management Accountants. Cincinnati OH. Power Platform, Feb 2020
Oroszi, T. Highlights for Children, Columbus, OH. Understanding the Path Toward Radicalization. Nov 2019
Oroszi, T. Intelligence Analysis Career Training (IACT), Program - 4/5/6 Power Platform Workshop, June 2019
Oroszi, T. Intelligence Analysis Career Training (IACT), Program - The American Terrorist Workshop, June 2019

**Dr. Ravi Sahu**

Ravi P. Sahu. Exploring mechanisms of immune checkpoint regulation in environmental stressor-induced progression of melanoma. The World Congress on Cancer Research & Therapy 2019 at Rome, Italy. (E-talk)


**Dr. Courtney Sulentic**


*Valerie B., Sulentic, C. E. W.: Evaluation of physiologically relevant aryl hydrocarbon receptor ligands on Ig heavy chain expression in a human B-cell line model. Central Research Forum, Boonshoft School of Medicine, Wright State University, Dayton, OH, 2019.


**Dr. Jeffrey Travers**

VA Clinical Grand Rounds, Dayton VAMC, Dayton OH

Ohio Health Partners, Inc Dermatology Grand Rounds Speaker, Columbus, OH, 2019

"Mechanisms of non-melanoma skin cancer and wounding strategies to prevent photocarcinogenesis”. September, 2019.


Consultantships [sponsor activity]

**Dr. David Cool**

VA Travers (PI) Funded Consultant 2020-2024

_Oxidized Lipids and UV Immunosuppression_

NIH-R21 Bihl (PI) Funded Cool (Consultant) 2018-2020

_Microvesicles as a novel transmitter for UV-induced bioactive products._

Collaborations & Consultants

Dr. Karen Parker, Stanford University- OT & AVP in Autism 2009-present
Dr. Vye Greanya (WSRJ) VNS versus OPs and Opiates 2019- present
Dr. Ray Bahado-Singh, Beaumont Health Research Center, MI. Proteomics 2016- present
Dr. Steven Lindevin OB/GYN Neu(5)GC in Infertility, endometriosis, vulvodynia 2015- present
Dr. John Bini MVH, Dept.Surgery, Proteins in Ventilator Associated Pneumonia 2014- present
Dr. Oleg Palty- BMB- HPLC Analysis of Small Bacterial Metabolic Molecules 2018- present
Dr. Richard Simman, P&T Dept, Comparison of wound healing using OASIS. 2014-present
Dr Lucille Wrenshall, NCBP Dept, Role of IL2 in cardiovascular system 2012-present
Dr. Steven Lindevin OB/GYN Polycystic Ovary Syndrome 2014- present

http://clinicaltrials.gov/ct2/show/study/NCT01487486

Dr Miryoung Lee- (Texas A&M) Analysis of biomarkers of dieting 2013- present
Dr. James Olson- Emergency Medicine & NCBP (RET), Biomarkers of Stroke. 2003-present

Patent Filed, Ongoing Research Project
Dr. Jiri Sonek & Dr. David McKenna, MVH- OB/GYN, BioMarkers for Preterm Delivery Ongoing Research Project.

**Dr. Jeffrey Travers**

Proctor & Gamble. Skin eruptions from Tide Pods 2017-

Eli Lilly, Inc. Member of NCRF Advisory Board regarding Baracitinib use in Skin Diseases 2018-

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

**Dr. Ji Bihl**

Awards
2019 President's Awards for Excellence: Early Career Achievement Award, Wright State University, OH

Editorial Board
Oxidative Medicine and Cellular Longevity

Professional Memberships
- American Society for Exosomes and Microvesicles (ASEMV)
- International Society for Extracellular Vesicles (ISEV)
- American Diabetes Association (ADA)
- American Heart Association (AHA)
**Dr. Yanfang Chen**

**Professional Memberships**
International Society for Extracellular Vesicles (ISEV)
American Diabetes Association (ADA)
American Heart Association (AHA)

**Reviewer for Scientific Conference**
American Heart Association (AHA)

**Reviewer for journals**
Cellular and Molecular Neurobiology, Cellular Physiology and Biochemistry, Experimental Cell Research

**Dr. David Cool**

2014- Present- Editorial Board, Interdisciplinary Toxicology

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

2020- NIH CounterAct Study Section Member Molecular, Cellular & Developmental Neurosciences Integrated Review Group. U01 & U54 Study Section Reviewer (03/04-06/20).

**Dr. Mauricio Di Fulvio**

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

Ad-hoc reviewer NIH-DPPS, Molecular and Cellular Endocrinology Study Section -MCE. Washington, DC.

Review Editor, Frontiers in Endocrinology
Review Editor, Frontiers in Neurosciences
Reviewer Scientific Reports
Reviewer American Journal of Physiology

**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
Frontiers of Toxicology (Associate Editor), 2019-present
Nanotoxicology (Editorial Member), 2009-present
Nanoimpact, 2015-2020

**Professional Memberships and Affiliations**
Society of Toxicology

**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

**Dr. Mike Kemp**

2019 Newly Independent Investigators Engagement Program, Environmental Mutagenesis and Genomics Society

**Dr. Ravi Sahu**

Regular Adhoc reviewer of various scientific journals:
- Antioxidants, Autophagy, BBA Molecular and Cell Biology of Lipids, Biomedical Research International,
- Biomarkers in Cancers, Cancer Research, Cancer, Cancers, Cancer letters, Clinical Cancer Research,
- Research, Oncotarget, Oncogenesis, Oncotarget and Therapy, Oxidative Medicine and Cellular Longevity, Photochemistry and Photobiology, Scientific Reports.

**Dr. Courtney Sulentic**

Student Awards, Miliben Bhakta, Ohio Valley Society of Toxicology meeting, Procter & Gamble. Best M.S. Poster Presentation, Selected for “Tox on the Clock” presentation

**Dr. Jeffrey Travers**

External Advisor, Christian Doppler Laboratory on Biotechnology of Skin Aging, Vienna Austria, 2013-present
External Advisor, University of Wisconsin NIAMS P30, Skin Disease Research Core Grant, Madison, WI., 2016-19
External Advisor, University of Pittsburgh NCI SPORE grant, Pittsburgh, PA 2019-
Brage Golding Distinguished Professor for Research, 2020-2023

**Journal Reviewer (2019-2020):**
- Archives of Dermatology
- British Journal of Dermatology
- European Journal of Pharmacology
- Free Radical Biology and Experimental Medicine
- Inflammation Research
- International Journal of Immunopharmacology
- IUBMB Life
- Journal of Biological Chemistry
- Journal of Immunology
- Journal of Investigative Dermatology
- Molecules
- Molecular Carcinogenesis
- Nutrients
- Toxicology and Applied Pharmacology
- Translational Research

**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:

**National Institutes of Health Review Panels (53 separate panels served):**
- NIAMS T32 Review 10-2019
- NIAMS RISK grant reviewer 6-2019
- NIAMS SBIR grant reviewer 3-2020, 6-2020

**Veteran’s Administration Review Panels (16 panels served):**
- VA Oncology D/E Review Panel, 11-2019, 5-2020

External Advisor, NCI SPORE grant, University of Pittsburgh (2019-present)

**Dr. Yongje Xu**

Ad hoc reviewer for the following journals: Current Genetics and Genes

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Summary of Service Activities

**Student advising**

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

Mentor, Leader Admin students:
- Abeer Najjar
- Kimberly Thomas
- Ram Vallabaneni

**Dr. Ji Bihl**

Post-doctoral Fellow:
- Jinju Wang, Ph.D., 2016-present.

**Thesis Director:**
- Venkata Sai Usha Sri Polaki, MS, 2018-present
- Sri Meghana Yerrapragada, MS, 2019-present

**Thesis Advisory Committee:**
- Praveen Kumar Alla, Ph.D, 2016-20212.
- Langni Liu, Ph.D, 2015-2020
- Kartheek Pothana, MS, 2018-20204.
- Oladayo Ayobami Oyebanji, MS, 2018-20205.
- Andrew Forino, MS, 2018-2020

**Visiting Scholar**
- Yuchen Li, Ph.D, 2018-2019

**High School Students:**
- Eileen Yang, 2019

**Lab Rotations:**
Shweta Bhadri, MS, 2019
Modhi Alshammari, MS, 2019
Arwa Alrasheed, MS, 2019
Venkata Arikatla, MS, 2019

**Dr. Yanfang Chen**
Kartheek Pothana, MS, thesis director, 2018-2020
Manasi Halurkar, MS, thesis advisory committee, 2018, expected graduation summer 2019
Langni Liu, BMS PhD, thesis advisory committee, 2014-present, proj defense summer 2020
Sri Donepudi, MS, mentor L/A, 2018-2019, graduated
Prashanth Reddy Penthal, MS Leadership Program, 2019-2020,
Manansi Halurkar, MS, 2017-2019
Venkata Sai Usha Sri Polaki, MS 2018-2020
Hua Liu, MD, Ph.D, 2018-2019
Zhifong Ye, M.D./M.S, 2019-2020

**Dr. David Cool**
Hima Priya Yenuga, MS, 2018-2020
Arwa Hosawi, MS, 2019-2021
Brian Stodgill, BMS/PhD, proj. graduation 2019
Jenny Jurcsisin, BMS/PhD, proj. graduated 2019
Raji Santhanakrishnan, BMS/PhD, graduated 2019
Prihy Martis, BMS/PhD, proj. graduation 2020
Soham Parikh, BMS/PhD, proj. graduation 2020
Ben Schmitt, BMS/PhD, proj graduation 2020
Jananie Rockwood, BMS/PhD, proj graduation 2022
Adaku Ume, MD/PhD, proj graduation 2022
Phillip Walker, MD/PhD, proj graduation 2021
Xiu Huan Yap, BMS/PhD, proj graduation 2022
Hannah Shows, BMS/PhD, proj graduation 2022

**Dr. Mauricio Di Fulvio**
Rana Abdeljawad, PharmD, MSc. Advisor
Modhi Alshammari, PharmD, MSc. Advisor
Yaksh Rathod, PharmD, MSc. Advisor
Charles Luu, BSc. MSc. Committee member
Abdullah Alshudukhi, MSc, BMS-PhD. Committee member
Tahir Amin Sulehria MD, BMS-PhD. BMS representative, Committee member
Ambika Shoemaker, MS, mentor L/A, 2018-present

**Dr. Khalid Elased**
Unmesha Thanekar MS, thesis director, graduated 2019
Leonid M Yermakov, MD/PhD, 2018-present
Christiana Draper, MD/PhD, 2018-present
Adaku Ume, MD/PhD, 2018-present
Yakshkumar Diliphbhai Rathod, MS, proj 2018-2020
Abeer Najjar, MS, graduated 2020
Harshal Sawant, MS, proj graduation summer 2020

**Dr. Saber Hussain**
Madeline DeBrosse, MS, mentor L/A, proj. graduation 2019
Dr. Mike Kemp

Kavya Shaj, PharmD (Pharm/Tox M.S.; graduated Aug 2020)
Abdulrahman Alkawar (Pharm/Tox M.S.; expected May 2020)
Mariyyah Madkhali (Pharm/Tox M.S.; expected May 2020)
Amber Castellanos (Pharm/Tox M.S.; expected May 2020)
Vivek Gogusetti (Pharm/Tox M.S.; expected Spring 2021)
Nadeen Anabtawi (Pharm/Tox M.S.; expected Spring 2021)
Maghana Ginugu (Pharm/Tox M.S.; expected Spring 2021)
William Cvammen (Biomedical Ph.D.; May 2020 - present)
Alex Carpenter, Ph.D. (Jan 2020 – present)
Rebekah Hutcherson, Honors Undergraduate Research, 2018-present

Dr. Terry Oroszi

Andrew La'Pelusa, Co-advisor MD/MS, 2016-present
Jude Khatib, Co-advisor MD/MS, 2017-present, graduated 2020
Jaree Naqvi, Co-advisor MD/MS, 2017-present, graduated 2020
Benita Wu, Co-advisor MD/MS, 2017-present, graduated 2020
Michael Williams, Co-advisor MD/MS, 2017-present, proj graduation fall 2020
Roy Chen, Co-advisor MD/MS, 2018-present
Sabina Bashir, Co-advisor MD/MS, 2018-present
Ryan Gabbard, Co-advisor MD/MS, 2018-present
Cameron McGlone, Co-advisor MD/MS, 2018-present
Rob Hoopes, Co-advisor MD/MS, 2018-present
Steven Repas, Co-advisor MD/MS, 2019-present
Zafer Sattouf, Co-advisor MD/MS, 2019-present
Sharlo Bayless, Co-advisor MD/MS, 2019-present
Jacob Dickman, Co-advisor MD/MS, 2019-present
Benjamin Schmeusser, Co-advisor MD/MS, 2019-present
Janet Lubov, Co-advisor MD/MS, 2020-present
Manansi Kulkarni, Co-advisor MD/MS, 2020-present
Danielle Corbin, Co-advisor MD/MS, 2020-present
Michele Miller, PhD, 2017-present

Dr. Craig Rohan

Multiple BSOM medical students have rotated on base, at Wright State Physicians Dermatology and at the Dayton VA Medical Center

Dermatology, Pediatrics and Internal Medicine residents routinely rotate in my clinic. I give regular lectures to multiple academic departments.

Student advising: I was able to help one of my prior WSU Internal Medicine residents to match to a second residency in Dermatology at Brown University.

Dr. Ravi Sahu

Sayali Kadam, MS, thesis director, proj. graduation 2019, summer switched to L/A
Shreepa Chauhan, MS, 2018-2020, graduated 2020
Felicia Gooden, PhD student, 2018-present
Abdullah Althaiban, MS, mentor L/A,2018-present
Haji Muhammad Salleh Syaza Ayuni, MS, graduated 2019
Harshini Mallipeddi, MS, graduated 2019
Oladay Oyebanji, MS, graduated 2020
Hima Priya Yenuga, MS, graduated 2020

Other:
Anita Thyagarajan, PhD, Research Scientist, 2015-present
Dr. Courtney Sulentic

Miliben Bhakata, M&I MS, 2018-present
Clayton Buckner, M&I MS; transitioned to BMS PhD program, 2019-present
Sydney White, P/T MS, 2019-present
Valerie Benedict, Anatomy M.S.
Salina Daniels, Biology M.S., graduated non-thesis January 2020
Eric Reed, BMS Ph.D. program; co-advisor Tyler Nelson, Ph.D. Wright Patterson AFB
Soham Parikh, BMS Ph.D. program; co-advisor Sharmila Mukhopadhyay, Ph.D., Dept. of Mech of Eng, WSU
Hannah Shows
Rujuta Gadgil (BMS representative)
Amjed Alajagthmi (BMS representative)
Astha Shyakya (BMS representative)
Tahir Sulehria
Angela Campo (BMS representative)
Harshal Sawant, MS, 2018-present
Vishwanath Gampala, MS, 2018-present
Philip Ndoki, 2018-2019, graduated

Dr. Jeffrey Travers

Avinash Mahajan, MS, 2018-present, proj graduation 2020
Simon Oyebanji, MS, 2018-graduated 5-2020
Pariksha Thapa, MS, 2018-graduated 5-2019

Thesis Advisory Committees:
Shreepa Chauhan, MS, 2018-present, committee, graduated 2020
Mariyyah Madkhali, MS, 2018-present, committee, graduated 2020
Hima Priya Yenuga, MS, 2018-present, committee, graduated 2020

Co-Advisor MD/MS Students:
Andrew La'Pelusa, MD/MS advisor, 2016-present
Jude Khatib, 2017-present, MD/MS advisor, graduated 2020
Jaree Naqvi, 2017-present, MD/MS advisor, graduated 2020
Benita Wu, 2017-present, MD/MS advisor, graduated 2020
Michael Williams, 2017-present, MD/MS advisor, proj graduation Dec 2020
Roy Chen, 2018-present, MD/MS advisor
Sabina Bashir, 2018-present, MD/MS advisor
Ryan Gabbard, 2018-present, MD/MS advisor
Cameron McGlone, 2018-present, MD/MS advisor
Rob Hoopes, 2018-present, MD/MS advisor
Steven Repas, 2019-present, MD/MS advisor
Zafer Sattouf, 2019-present, MD/MS advisor
Sharlo Bayless, 2019-present, MD/MS advisor
Jacob Dickman, 2019-present, MD/MS advisor
Benjamin Schmeusser, 2019-present, MD/MS advisor
Janet Lubov, 2020-present, MD/MS advisor
Manansi Kulkarni, 2020-present, MD/MS advisor
Danielle Corbin, 2020-present, MD/MS advisor
Langni Liu, 2016-present, advisor, proj graduation 2020

Dr. Yong-jie Xu

Ala Mahdi, MS, 2018-present
Ishita Haider, committee (PhD student in Dr. Quan Zhong’s lab):
Amanda Myers, committee (PhD student in Dr. Weiwen Long’s lab)
Rujuta G. Yashodhan, committee (PhD student in Dr. Michael Leffak’s lab)
Sankhadip Bhadra (Dec 2019-Mar, 2020) PhD student from the BMS program, 1st lab rotation.
Nadeen Anabatawi (Sept. 2019): MS student in the Dept of Pharm Tox, rotation
Arwa Alrasheed (Oct. 2019): MS student in the Dept of Pharm Tox, rotation
Committee membership/officer [indicate if committee chair]
Wright State University Boonshoft School of Medicine [or college name]

Dr. F. Javier Alvarez-Leefmans
Pharm/Tox Faculty Affairs & Development Committee

Dr. Ji Bihl
Boonshoft School of Medicine Medical Student Scholarly Grant Review committee
Pharm/Tox Master’s Program Admission Committee

Dr. Mauricio Di Fulvio
BMS Admissions Committee

Dr. Khalid Elased
Faculty Curriculum Committee
WrightQ Writing Group
BSOM Faculty Promotions and Advancement Committee
Pharm/Tox Faculty Affairs & Development Committee

Dr. Mike Kemp
Biomedical Sciences Ph.D. Program Nominating Committee

Dr. Terry Oroszi
BSOM Continuing Medical Education Committee (CME)
Pharm/Tox Master’s Program Admission Committee

Dr. Craig Rohan
Wright State University Boonshoft School of Medicine: Department of Dermatology Clinical Competency Committee Member

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
5-Year Chair Review Committee for Dr. Kadakia, 2020

Dr. Jeffrey Travers
WSU Executive Committee, 2015-present
Dean’s Research Chairs Committee, 2015-present
LCME Curriculum Committee, 2015-2018
Academy of Medicine Board of Directors, 2015-present
Bylaws Committee, 2017-present
Scholarship in Medicine, 2017-present
Basic Science Track Committee (Chair), 2018-present
BSOM Dean Search Committee, 2020-
Dr. Ji Bihl

Institutional Animal Care and Use Committee (IACUC)
Biomedical Sciences Program (BMS) Admissions Committee

Dr. David Cool

Biomedical Sciences Program (BMS) Curriculum Committee, 2019-2021
Pharm/Tox Faculty Affairs and Development Committee, Chair 1998- present, Chair 2019-present
Parking Appeals Subcommittee, 2017- present
Building and Grounds Committee, 2017-2019

Dr. Khalid Elased

Laboratory Animal Care & Use Committee.
BMS PhD Program Curriculum Committee.

Dr. Terry Oroszi

WSU Faculty Senator
Faculty Senate Ad Hoc International Graduate Student Success Committee
WSU International Program Oversight Committee (IPOC/IEAC)
Various PTX Department Committees

Dr. Ravi Sahu

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

Dr. Courtney Sulentic

Women’s Peer Mentoring Group, initially supported by the NSF-funded LEADER Program at WSU
Radiation Safety Committee, 2005-present; Chair, 2013-2020 (committee dissolve)
Women in Science Giving Circle member, 2016-present
Academic Policies committee, BMS PhD Program, elected member, 2019-2021

Dr. Jeffrey Travers

Academic Policies Committee, 2015-present

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. Craig Rohan
Wright Patterson Medical Center: Cancer Care Committee/ Tumor Board Member

Dr. Jeffrey Travers
Dayton VA Medical Center, Dayton, Ohio, 2015-present
Medical Licensure: Ohio, 2015-present
Board Certification: Dermatology. 1995-present
Ohio Academy of Dermatology

National

Dr. Ji Bhl
Reviewer for Scientific Conference
International Stroke Conference (ISC)
Reviewer for journals
Cellular and Molecular Neurobiology (6), Experimental Cell Research (1), International Journal of Molecular Medicine (1), Circulation – Heart failure (1), Clinical and Experimental Gastroenterology (1), Neuropsychiatric Disease and Treatment (2), Biological Chemistry (1), International Journal of Developmental Neuroscience (1), Microvascular Research (2), The International Journal of Electrical Engineering & Education (3), Molecular Medicine Reports (1)
Cell and Tissue Research (1)

Dr. Yanfang Chen
Reviewer for Scientific Conference, American Heart Association (AHA)
Reviewer for Grants, National Institutes of Health (NIH)

Dr. Mauricio Di Fulvio

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 on May 2, 2020 at Washington, DC.

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

Delegate of the WSU 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.


NIH/NIDDK: Special Emphasis Panel/Scientific Review Group 2019/08 ZHL1 CSR-C (S1)
"Maximizing the Scientific Value of the NHLBI Biorepository: Scientific Opportunities for Exploratory Research (R21)"

Dr. Saber Hussain
Advisor National Research Council, Postdoctoral Mentor

Dr. Mike Kemp
Chair, Honors and Awards Committee, Environmental Mutagenesis and Genomics Society

Dr. Terry Oroszi
President, InfraGard, Dayton Alliance Chapter/FBI
Director, Simman Wound Board
The Dayton Think Tank, Chairperson of the Board
Institute for Operations Research and Management (INFORMS)
Midwest Academy of Management (MAM)

National
InfraGard Alliance/FBI
NYPD SHIELD
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
International Examiner to evaluate a Ph.D. Thesis.
Malathi. R (Thesis Advisor: Dr. J. Karthikeyan, Department of Biochemistry (PG & Research) Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.

Dr. Courtney Sulentic
Elected to the Society of Toxicology Council, Councilor, 2018-2021
Council Liaison
Faculty United for Toxicology Undergraduate Recruitment and Education (FUTURE)
Committee on Diversity Initiatives
Appointed Subcommittees
Issue Statement Review
Social Networking
Strategic Plan Priority Implementation Task Force
Podcast
C1 Outreach to Educators
B3 Outreach and Communication
Non-SOT Annual Meeting and Regional Chapter Funding
Elected to Presidential Chain for Women in Toxicology Special Interest Group, Society of Toxicology
Vice President, 2019-2020
President-elect, 2020-2021
Mentor Match program, mentor, Society of Toxicology
Other service:
Poster judge for Ohio Valley Society of Toxicology Annual meeting
Ad-hoc reviewer for several journals

Other

Dr. Ji Bihl
Preclinical Pharmacology Core Director

Submitted grants
NIH R01 (NICHHD), PI- Brown, Co-investigator (5%), 08/01/2020-07/31/2025 (scored 14%)
Effects of prolonged, trophoblast-specific Hif-1alpha on placental function and preeclamptic symptoms
The major goal of this project is to understand how prolonged trophoblast Hif-1α in preeclampsia leads to detrimental changes in placental function, fetal growth, and maternal pathophysiology. In addition, the role of gestational hypertension in fetal growth restriction will be determined.

Career Development Award (CDA), American Heart Association (AHA), PI- Wang, Mentor, 04/01/2020-3/30/2023
The role of EPC exosomal communication in the beneficial effects of exercise on ischemic stroke
The major goals of this project are to investigate the role of exercise in the function of EPC-EXs in ischemic stroke

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with hypertension.

NIH R01 (NIH), PI- Williams, Co-investigator (10%), 01/01/2020-12/31/2024
Zinc deficiency-induced pathophysiological renal mechanisms involved in hypertension
The major goal of this project is to determine the role of Zin deficiency in hypertension.

Submitted papers


Dr. Yanfang Chen
Preclinical Pharmacology Core Co-Director

Dr. David Cool
Director of the Proteome Analysis Laboratory, 2004-present, unpaid position

Dr. Saber Hussain
Established a new in vitro laboratory at the base to develop 1. Multi-Organ System Model Development for Elucidating Mechanism of Operational Stressors using 3D in Vitro to more accurately represent human organs and allow for rapid toxicity screening and 2) Application of Gene Editing Technology to identify molecular pathways in response to operational stressors.

Working on to bring collaboration & opportunities to bring resources and mutual benefits between AFRL & Pharm/Tox- would benefit by having their students involved in real-world research activities and internships within the Air Force Activity. Potential to have one or two postdoc to work at WSU under this collaboration.

Long term plan to assist Pharm/tox to establish area of expertise as center of excellence in Nanotechnology/nanomedicin and its application to dermatology- there are so many nanobased products, i.e., Sunscreen, antimicrobials, dressings, slow liberation volatile compounds (such as perfumes and insect repellents), radiation, directed energy provide opportunities for looking into their mechanism of dermal toxicity while developing nanotechnology based tools for diagnostic tools for real time visualization of tumors and infections and malignant diseases, antimicrobials, skin fillers, cutaneous paralyzing agents, gene silencers, cutaneous vaccines, induced skin treatments (for example, optical, magnetic, thermal, and radiofrequency).

Dr. Mike Kemp
Dayton VAMC Subcommittee on Research Safety

Manuscript Reviewer: Frontiers in Molecular Biosciences; Open Biology; Toxics; Cancers (2); Molecules; Genetics and Molecular Biology; Gene; Photodermatology, Photoimmunology, and Photomedicine; Journal of Integrative Medicine; Cell Proliferation; FEBS Letters; Aging; J Invest Derm; J Cell Mol Med; Mol Gen and Genomic Med; Nuc Acids Res
Dr. Terry Oroszi

Leadership
Program Director Pharmacology & Toxicology Graduate Programs (2008 – Present)
Program Director Pharmacology & Toxicology CBRN Defense Program (2012 - Present)
Course Director of 60 courses in five years.

Development of education aids
To meet the needs of the online students, as well as to offer refreshers, I have made the Power Platform into a video, and ESW1 and 2 course information videos available on YouTube, and had guest lecturers in my CBRN courses recorded so that their webinar could be used every semester, without requiring them to repeat it. In 2019 we started videotaping all of our seminars (with permission) to create a library that can be used for courses and learning aids. They are on YouTube as well.

Curriculum design (course development and/or redesign)
Redesign:
PTX-7012 (1 Credit Hr.) Introduction to Research. Redesigned to make it a standalone class with assignments to verify objectives are met.

PTX 7000 (3 Credit hour) Biostatistics

Developed the following courses:
PTX-7000 (1 Credit Hr.) * Healthcare and Homeland Security Journal Club. In 2020 I submitted a more detailed 4-credit course with a similar name, not yet approved. The course integrates FEMA, HERT, and CERT training.

PTX-7021 (3 Credit Hrs.) * Effective Scientific Writing: Part 1. When I created the nonthesis track I included this class as an independent study course, (students choose a faculty member to do the paper with), there was too much inconsistency in goals/outcomes/requirements, so I amended it to be a classroom class, and for online students, I amended it again. I still teach the online classes, and the material for the classroom is based on my original class.

PTX-7022 (3 Credit Hrs.) * Effective Scientific Writing: Part 2. When I created the nonthesis track I included this class as an independent study course, (students choose a faculty member to do the paper with), there was too much inconsistency in goals/outcomes/requirements, so I amended it to be a classroom class, and for online students, I amended it again. I still teach the online classes, and the material for the classroom is based on my original class.

PTX-8000 (3 Credit Hrs.) * Leadership: Theory and Application. This is an elective class. I love teaching this class.

PTX-8140 (3 Credit Hrs.) * Human Studies Research. For anyone doing clinical work. It covers IRB petitions and CITI training.

PTX-8006 (3 Credit Hrs.) * Case Studies for CBRN Defense

PTX-8000 (3 Credit Hrs.) * MD/MS Capstone, for Clinical Investigation students only.

PTX-8010 (3 Credit Hrs.) * Clinical Research: Roles and Responsibilities. I created this class to be part of the new Clinical Trials Coordination track.

Development of innovative teaching programs
Redesign:
PTX Research Track. This was the only track until 2009. The average number of students was 5.

Develop:
NEW PTX Clinical Investigation MD/MS Concentration, 2019
PTX Clinical Trials Coordination Concentration, 2020
PTX Clinical Research Certificate (in the approval process), 2020
PTX Undergraduate CBRN Defense Certificate (in the approval process), 2020

The partnering of healthcare and homeland security was something I wanted to incorporate in the medical school and furthering/expanding the education of our medical students, so in 2015 I created a degree that would allow a medical student to get an MS degree, the Clinical Investigation concentration, and
encouraged the participants to do the CBRN courses, and a healthcare and homeland security journal club. In 2019 I put together another degree for MD/MS students and health care professionals, call the Clinical Trials Coordination concentration.

Service to my department went beyond creating new courses and concentrations. I chaired every ad hoc committee in my department, and most standing committees, like policy, admissions, discipline, and curriculum committees. In many cases, I am the chair of a committee of one. When we switched from quarters to semesters, I single-handedly transferred all the courses, submitted needed paperwork, and updated the faculty as needed.

**Service to my WSU and BSOM:** Serving the military and government agency communities with this program opened up other opportunities, such as a bioacademic workshop, partnering with the FBI, at WSU, or working to create an emergency management disaster preparedness MS degree involving every college on campus. This experience also led me to focus my doctorate (dissertation) on decision-making for crisis leadership and completed both an internship and a post-doctoral fellowship at the VA in medical simulations. Some WSU and BSOM committees in which I participated include:

**Service to my community:** Upon completion of my degree I met with the Dayton Mayor and proposed the Dayton Think Tank, with a focus on crisis, threat, disaster, and emergency management. Together we came up with our first nearly fifty members, top crisis leaders in our region, in which I was/am the Dayton Think Tank chair.

**Service to my community and country:** My service to the community extended to doing several talks and workshops related to leadership and homeland security. In 2017 I was invited to be part of InfraGard, an FBI public partnership, and spoke at their national meeting where I met the FBI director for the first time. A year later I was nominated to be part of the FBI Citizen’s Academy, a program for community leaders with a curriculum similar to Quantico, but geared to non-law enforcement personnel. I was also invited to a sit-down conference meeting with the FBI director to discuss CBRN, terrorism, and crisis topics. In 2019 I headed back to Quantico for a week-long leadership training program and spoke with both HQ and Quantico personnel on my area of research. When I left Quantico, I headed straight to the National Security Agency to provide training to their security and intelligence personnel. In 2020 I became president of the WPAFB/Dayton chapter of InfraGard.

My passion for service is not over, I have been pushing for a Healthcare and Homeland Security Center at WSU for the last few years. Until recently, when I would use those two words together, I received confused looks, people did not see the relationship. It took COVID19 for many to see that health care professionals need to know about homeland security. My research niche, healthcare and homeland security, is unlike any other faculty member in the medical school, and my research, publications, and service reflect this unique but highly valuable contribution. In the field of homeland security, I am an internationally recognized subject matter expert in decision-making for crisis leadership, Chemical, Biological, Radiological, and Nuclear Defense, and American terrorism. My research is part of NSA’s training curriculum, Facebook’s workplace violence program, and I have been asked to return to Quantico, FBI HQ, and NSA to reach a global audience, versus the security/intelligence audience I typically have. In June 2019, I was asked to brief members of the House Intelligence and Armed Forces committees.

**Dr. Courtney Sulentic**

Submitted:
R01 ES031925-01 NIEHS
“Role of the AhR and genetic differences in human antibody production” Impact score: 42; Percentile: 21 (Reviewers 1 and 2 gave fundable scores)

**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.
Dr. Yongie Xu

Proposed a new Pharmacology & Toxicology course: Research Methods in the Analysis of Genome Integrity.

7

Patient Care Summary

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

Dr. Craig Rohan

Dermatology Clinics at WPS
Dermatology Clinics at Dayton VAMC

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]

Dr. Jeffrey Travers
Brage Golding Distinguished Professor for Research 2020-2023