Department of/Office of Pharmacology & Toxicology

Annual Report:

July 1, 2022 – June 30, 2023

Jeffrey Travers, MD, PhD
Professor and Chair
Statement from the Chair/Associate Dean

[Highlights of the year limited to 500 words]

The Department has experienced a very good year as measured by success in our education, service and research missions. The faculty are unified with an enthusiastic *esprit de corps*. The level of collaboration amongst faculty is very high. A regular (3x year) newsletter and weekly “Down on the Pharm” notices to the faculty have greatly improved communication. In 2021-2022 we underwent an alumni survey, then an external review of our educational programs followed by a faculty retreat to plan our future. The external review found that the departmental programs were successful as measured by metrics such as quality, satisfaction, and % graduation and job placement. A recent external EAB Masters Portfolio Analysis based upon labor market demand and competitive landscape variables completed for WSU Main campus in July 2022 also found that our MS programs have significant growth potential. The past year has resulted in record numbers of Masters students (~120) in our Program. The plan is to continue and expand our successful educational programs and to attempt to hire educational faculty to complement our research-based faculty and vibrant group of specialized adjuncts.

I will further briefly outline the Departmental accomplishments below. Please see entire document to appreciate the breadth and scope of faculty endeavors.

**Educational Mission.**

Academic scholarly/creative activity and teaching are essential components to the success of the departmental mission. Under the leadership of Vice Chair Dr. Terry Oroszi, the department thrived during and after the pandemic thanks to the department’s ability to allows professors to teach courses in two or three semesters rather than one. Online classes allowed us to educate more students and contribute to our ability to meet the needs of increasing numbers of students. Allowing students to enroll in the Spring instead of only the Fall has added to our numbers, yet has resulted in the need to offer several courses at multiple times. This helped us maintain our student population, and this past year we had record numbers of MS students.

Another program that we spent a few years developing saw its first incoming class in 2020. This new Clinical Trials Coordination concentration leverages the Pharmacology and Translational Medicine Unit (PTU) for educational purposes. Given the shortages of clinically trained positions in the pharmaceutical industry, this new concentration fills an important need. The Clinical Trials Coordination Concentration is designed to give students a solid understanding of the current paradigm in clinical trials (randomized controlled trials, phase I, II and III trials, phase IV trials, adaptive trials, placebo-controlled trials) and how pharmaceutical companies are implementing meaningful changes to their clinical trial practices. The program centers around 45 contact hours at the Pharmacology Translational Unit (PTU), a separate year-long intensive course on aspects of regulatory procedures/medical writing and an investigative writing project on an area of interest to the student.
Today we are able to offer incoming students the following options:

Degrees:
- 2-year Research Track
- 2-year, 1-year, and a fully online non-thesis option
- Clinical Investigation Concentration (MD/MS) Program
- Clinical Trials Coordination Concentration MS degree
- Pipeline- HealthCare & Homeland Security MS degree

Graduate Level Certificates:
- Clinical Trials Coordination Certificate
- CBRN Defense Certificate
- Graduate General Toxicology Certificate (In partnership with the Navy Medical Research Lab, Dayton OH)
- Pipeline-Undergrad CBRN Defense program

Research Mission.
Research efforts are moving along well, and the majority of our faculty receive funding from extramural grants. Yongjie Xu has obtained an NIH R35 grant, and Kemp, Sahu and Travers have received NIH and VA grants. Of importance, one of the new NIH grants is an R34 that is focused on chemical warfare weapons (mustargens). This movement into the chemical warfare space builds upon our plans to launch a HealthCare & Homeland Security MS Program in the near future. The movement of part of the laboratory space of long-term faculty colleague Dr. Saber Hussain from the WPAFB into the Departmental research space has further enhanced our research infrastructure. More translational studies, both NIH/VA-funded and pharma-supported clinical trials, are in place in the PTU. Faculty in the Department have also been publishing many manuscripts. Many continue to develop new collaborations through funding as well as publications.

Service Mission.
Departmental faculty members have also been very active in the service category. These efforts include service locally, as well as at the national level. Multiple faculty colleagues are involved in extramural grant panels. The Department boasts two clinician-scientists who also add to the clinical services as well as the educational and research missions. Multiple faculty serve on extramural grant review panels.

The past year has been a good one and we have plans in place to make the next years even better!
2 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>
</tr>
<tr>
<td>Clinical Trials Coordination Certificate Program</td>
<td>Terry Oroszi, EdD</td>
<td>2020-present</td>
</tr>
<tr>
<td>Preclinical Pharmacology Core</td>
<td>Yanfang Chen, MD, PhD</td>
<td>2015-present</td>
</tr>
<tr>
<td>Pharmacology Translational Unit (PTU)</td>
<td>Craig Rohan, MD</td>
<td>2022-present</td>
</tr>
</tbody>
</table>

3 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>F. Javier Alvarez-Leefmans, MD, PhD, Professor</td>
<td>Neuroscience, molecular physiology &amp; pharmacology, clinical neurology</td>
<td></td>
</tr>
<tr>
<td>Yanfang Chen, MD, PhD, Professor</td>
<td>Cardiovascular disease, cerebrovascular complications</td>
<td></td>
</tr>
<tr>
<td>David Cool, PhD, Professor, Director of Proteome Laboratory</td>
<td>Cellular mechanisms involve in neurodegeneration and neuroinflammation in response to diseases and chemical toxicity.</td>
<td>Proteomic and genomic changes in response to endocrine diseases. Developing protocols and facilities for proteome, lipid and carbohydrate analysis</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, Associate Professor</td>
<td></td>
<td>Diabetes</td>
</tr>
<tr>
<td>Khalid Elased, PharmD, PhD, Professor</td>
<td></td>
<td>Diabetes, cardiovascular</td>
</tr>
<tr>
<td>Saber Hussain, PhD, Professor</td>
<td></td>
<td>Nanoparticles</td>
</tr>
<tr>
<td>Mike Kemp, PhD, Assistant Professor</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>
</tr>
<tr>
<td>Terry Oroszi, EdD, Associate Professor</td>
<td></td>
<td>Healthcare &amp; Homeland Security (Terrorism/CBRN/Crisis Decision Making)</td>
</tr>
<tr>
<td>Craig Rohan, MD, Assistant Professor</td>
<td>Translational Medicine</td>
<td>Clinical Trials, Wright State Pharmacology Translation Unit</td>
</tr>
<tr>
<td>Jeffrey Travers, MD, PhD, Professor &amp; Chair</td>
<td>Translational Medicine</td>
<td>Skin inflammation/cancer, lipid pharmacology Clinical Trials, Wright State Pharmacology Translational Unit</td>
</tr>
<tr>
<td>Yong-jie Xu, MD, PhD, Associate Professor</td>
<td>Genome integrity, signaling mechanism of replicator checkpoint</td>
<td></td>
</tr>
</tbody>
</table>

### Teaching

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

**Courtney Sulentic**

M&I 4260/BMS 8020/PTX 8260 Microbiology and Immunology, Lecturer (42 hr); Fall 2022

**Undergraduate Research Trainees:**

Rebecca Sanders

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

**F. Javier Alvarez-Leefmans**

PTX 7021 Effective Scientific Writing I, Director. Fall 2022
PTX 7022 Effective Scientific Writing I, Spring 2023
BMS 8750/P&N Neuroscience and Physiology, Lecture, Spring 2023
Yanfang Chen
PTX 8000 Cell Culture Training, Fall 2022
PTX 8000 Cell Culture Training, Spring 2023
PTX 7021 Effective Scientific Writing I, Fall 2022
PTX 7022 Effective Scientific Writing II, Spring 2023

Mentor MS Students
Hamad Albaqami
Harish Kothapalli
Divya Akhila Yekkala

David Cool
PTX 7010 Research Techniques, Director, Fall 2022
PTX 7020 Laboratory Management, Director, 2 sections, Spring 2023
PTX 7020 Laboratory Management (MD/MS Online), Director, Summer 2023

PhD Advisory Committee
Jananie Rockwood, BMS Rep, Grad 2023
Adaku Ume, BMS co-advisor, Grad 2023
Phillip Walker, MD/PhD BMS committee, Projected graduation 2024
Mia Burnett, BMS PhD committee, Projected graduation 2025
Kristen Rehl, BMS rep, Grad 2023
Christina Davidson, BMS committee, Projected graduation 2023
Bryan Mayville, BMS PhD committee, Project graduation 2024

Mauricio Di Fulvio
PTX 7003 Biokinetics & Biodynamics, Co-director, Fall 2022
PTX 7300 Cellular Pharmacology & Toxicology, 8 sessions, Co-director, Spring 2023
PTX 7110 Journal Club, Director, Fall 2022

Thesis Advisory Committee
Modhi Alshammari, MS advisor, Graduated spring 2023
Yaksh Rathod, PhD BMS advisor, 2021-2026
Abdullah Alshudekhi, PhD BMS committee member, Graduated spring 2023

Khalid Elased
PTX 7001 Cellular Pharmacology & Toxicology, Co-director, Spring 2023
PTX 7021 Effective Scientific Writing I, fall 2022
PTX 7022 Effective Scientific Writing II, spring 2023

MS Students
Yashasvi Jagapathi, lab
Saranya Chandaka, lab
Anisha Cherukuri, MS advisor
Jaypalsinh Gohil, MS advisor
Vimarsh Joshi, MS advisor
Adil Mohammed, MS advisor
Rama Bandi, MS advisor
Meeti Champaneria, MS advisor
Yashasvi Jagapathi, MS advisor
Shaheela Shaheela, MS advisor
Pooja Chimata, MS advisor

Thesis Advisory Committee
Adaku Ume, MD/PhD student
Danielle Adams, MD/PhD student
Yakshkumar Rathod, PhD student
**Saber Hussain**

Advisory Committee
Capt. Bryan Mayville, PhD student, 2020-2023
Mia Burnett, PhD student, 2022-present
Delaney Grant, DAGSI student
Summer interns: 10

**Mike Kemp**

PTX 8007 Career Planning in Pharmacology & Toxicology, Fall 2022
PTX 7002-05 Journal Club, Fall 2022
PTX 8020 Pharmacology & Toxicology of DNA Damaging Agents, Spring 2023
PTX 8007 Career Planning in Pharmacology & Toxicology, Spring 2023

Thesis Advisory Committee
Hrishikesh Kadam, MS student, advisor, Graduated spring 2023
Prashant Gaikwad, MS student, advisor, Graduated spring 2023
Swathi Kavuri, MS student, advisor, Graduated spring 2023
Aleena Alex, MS student, advisor, Exp gradation spring 2024
William Cvammen, BMS PhD student, 2020-present, exp grad 2024
Sri Meghana Yerrapragada, BMS PhD student, 2022, exp grad 2026
Alex Carpenter, PhD, postdoctoral training, 2020-present
Saman Khan, PhD, postdoctoral training, Feb 2021-present
Dean Rider, PhD, 2022-present

**Terry Oroszi**

PTX 7022 Effective Scientific Writing I, Fall 2022
PTX 7012 Introduction to Research, Fall 2022
PTX 8140 Human Studies Research, Fall 2022
PTX 7014 Principles of Healthcare & Homeland Security (w/Pratt), Fall 2022
PTX 7002-03 Journal Club/Special Topics w/Pecora, Fall 2022
PTX 7021 Effective Scientific Writing I, Fall 2022
PTX 7002-03 Journal Club/Special Topics w/Pratt, Spring 2023
PTX 7006 Leadership, Theory & Application, Spring 2023
PTX 7021 Effective Scientific Writing I, Spring 2023
PTX 7022 Effective Scientific Writing II, Spring 2023
PTX 8140 Human Studies Research w/Williams, Spring 2023
PTX 7002-04 Journal Club/Special Topic w/Pecora, Spring 2023
PTX 7005 Clinical Investigation Capstone, Summer 2023
PTX 4990 Undergraduate Research in Pharmacology w/Pecora, Summer 2023
PTX 7002-02 Journal Club/Special Topics w/Pecora, Summer 2023

MS PharmTox advisor
Aarita Sood
Ajay Undrakonda
Alexander Opoku
Mark Robinson
Meghana Anagani
Mohammed Uddin
Nahla Khader
Narasimha Mallampati
Rachana Balusa
Sherin Mathew
Soumya Erri
Venkatesh Kilari
Vinitha Sakhamuri
Kesha Patel
Anusha Chinthareddy
Craig Rohan
PTX 7021 Effective Scientific Writing I, Fall 2022
PTX 7022 Effective Scientific Writing II, Spring 2023

Ravi Sahu
PTX 7021 Effective Scientific Writing I, Fall 2022
PTX 7022 Effective Scientific Writing II, Course Director, Spring 2023
PTX 7011 Thesis Development Workshop, Co-director, Spring 2023
PTH 8407 An Overview of Animal Research

Thesis Advisory Committee
Krishna Awasthi, MS student, Graduated spring 2022
Pranali Manjrekar, MS student committee, Graduated spring 2022
Rushabh Lohade, MS student committee, Graduated spring 2022
Naga Swathi Kavuri, MS student committee, Graduated spring 2022
Prashant Gaikwad, MS student committee, Graduated spring 2022
Rishikesh Kadam, MS student committee, Graduate spring 2022
WM Dilsha Wickramasinghe, MS mentor, chemistry

Courtney Sulentie
M&I 7260/BMS 8020/PTX 8260 Microbiology and Immunology Seminar Course, co-director; Fall 2022
PTX 7300 Cellular Pharmacology & Toxicology, Director, Spring 2023

Graduate Research Trainees:
Sailaja Rachakonda, mentor, Pharm/Tox M.S.
Vamshi Beemanapalli, mentor, Pharm/Tox M.S.
Elissa Wakim, M&I M.S.
Sydney White, Pharm/Tox M.S., graduated 2022
Mia Williams Burnett, ES Ph.D. program
Mili Ben Bhakata, BMS Ph.D. program
Eric Reed, BMS Ph.D. program; co-advisor Tyler Nelson, Ph.D. Wright Patterson AFB
Clayton Buckner, BMS Ph.D. program; co-advisor Mike Raymer, Ph.D., Dept. Computer Science, WSU; graduated 2023 with M&I M.S.

Graduate Advisory Committees:
Pharmacology & Toxicology M.S. program
Modhi Alshammari, graduated 2022

Microbiology & Immunology M.S. program
Makda Gebrezgi
Yamini Somanchi
Lalitha Sheetal, graduated 2023

Biomedical Sciences Ph.D. program
Rujuta Gadgil (BMS representative)
Yakshkumar Rathod (BMS representative)
Anthony Young (BMS representative)

PTX non-thesis Graduate Student Mentees:
Babitha Kasula
Vineel Jampani
Bhavitha Madala
Chandana Madala
Shiva Nanavath
Babitha Sri
Sruthi Sagiraju
Bhavana Kasaraneni
Aleena Alex
Bhuvaneswari
Shrutiben Patel
Jeffrey Travers
PTX 7021 Effective Scientific Writing I, fall 2022
PTX 8005 Advanced Topics in Pharmacokinetics/Pharmacodynamics, course director, fall 2022
PTX 7022 Effective Scientific Writing II, spring 2023
PTX 8000 Journal Club MD/MS, Summer 2022
PTX 8010 Journal Club MD/MS, Summer 2022

MS Thesis Students
Pranali Manrekar, advisor, graduated spring 2023
Shikshita Singh, advisor, graduated spring 2023
Rushabh Lohade, advisor, graduated spring 2023
Taskin Sabit, advisor, proj graduation spring 2024

MD-MS students (primary advisor)
Maansi Kulkarni, 2020-2023
Danielle Corbin, 2020-2023
Janet Lubov, 2020-2023
Timothy Frommeyer, 2021-2024
Michael Gilbert, 2021-2024
Megan Cleary, 2021-2024
Alexander Vollmer, 2021-2024
Ericson Torralba, 2021-2024
Afryea Henderson, 2022-2025
Winston Owens, 2022-2025
Mark Ortenzio, 2022-2025
Andrea Shugar, 2022-2025
Garrett Fisher, 2022-2025
Rebecca Reese, 2023-2026
Youngjun Park, 2023-2026
Richard Fox, 2023-2026
Rita Kamoua, 2023-2026
Michael Leake, 2023-2026

PhD students
Cvammen William, committee 2020-

Yongjie Xu
PTX 7011 Thesis Development Workshop, spring 2023
PTX 7021 Effective Scientific Writing, fall 2022
PTX 7022 Effective Scientific Writing, spring 2023

MS Advisory students
Kajal Davi, proj grad spring 2024
Yeseswi Guduri, proj grad spring 2024

PhD Committee
Sankhadip Bhardra

Postdoctoral fellows
Kamal Dev
Ilknur Yurtsever
Undergraduate medical education [medical school]

**F. Javier Alvarez-Leefmans**
WrightQ, Staying Alive Module, spring 2023

**David Cool**
WrightQ, Beginning to End, Balance Control and Repair, fall 2022
WrightQ, Beginning to End, Balance Control and Repair, spring 2023

**Khalid Elased**
WrightQ, Staying Alive Module

**Craig Rohan**
Dermatology lectures to MS2 class

**Courtney Sulentic**
WrightQ, Staying Alive Module
WrightQ, Beginning to End, Balance Control and Repair

**Research Trainees**
Raghiv Talreja, 4th year medical student
Shaina Ailawadi, 4th year medical student

**Jeffrey Travers**
No formal lecture, but teach medical students during dermatology elective and every one of three 4h clinics/week.

Graduate medical education [residents, fellows]

**Craig Rohan**
Clinical rotations for dermatology, pediatrics, internal medicine and family practice, 2-4 days/week

**Jeffrey Travers**
Lecture to dermatology residents, Resident Immunology I

Continuing medical education [grand rounds, seminars]

**Craig Rohan**
Grand rounds at Harvard CH Chan School of Public Health
Hot Topics lecture at Ohio Dermatologic Association
Grand Rounds (2) at Dayton VA Medical Center
Quarterly lectures to Dayton Children's Medical Center/pediatric residents, and monthly lectures to dermatology residents.
Interviewed for (2) podcast episodes of the Curbsiders Medical Podcast.

**Ravi Sahu**
Academic Advisor for BSOM medical students
Jeffrey Travers

Redox Biology Congress Invited Lecture from the Society for Free Radical Research-Europe, Vienna, Austria “Platelet-activating Factor and microvesicle particles as effectors for photosensitivity”, June, 2023

Other

Courtney Sulentic
Eimaan Virani, Centerville High School, Research Trainee
Chidimma Nnagbo, Mentor for Women Walking West

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]

Yanfang Chen

PIs, Jeffrey B Travers and Yanfang Chen, Co-PI David Cool, Craig Rohan). “UVB radiation-generated microvesicle particles as effectors for photosensitivity.” NIH R01 (NIHES031087, 04/01/2021 – 01/31/2026), $337,500, Co-PI

Khalid Elased
Williams, Clintoria Richards and Elased, Khalid (Co-PI) “Primary Place of Performance.”, NIH/NIDDKD, $384,866/yr., 07/2022-06/2027

Saber Hussain

Hussain, Saber. “Biophotonic based cellular commutation & signaling (6.1)”. $0.75 M, 2020-2023.


Hussain, Saber. “Expanded multi-organ in vitro model in collaboration w/ Wright State Univ to support advanced medical S&T to sustain Airmen health & performance in stressful environment. Resulted academic partnership via CRADA w/WSU 2020-2023, $1.5M equipment placed in Pharm/Tox in AFRL collaborative laboratory, train students, Synergy and partnership, enhanced medical S&T, access to talented work force.

Hussain, Saber. Renewing/creating new CRADA – cohesive approach of how to expand collaboration between AFRL & WSU.
Mike Kemp
Kemp, M (PI). “DNA damage kinase signaling in non-replicating human cells and tissues”; NIH GM130583 ~$296,000 total costs/year, 2/1/19-1/31/24.


Kemp, M (PI). “Mapping DNA Repair and Error-Prone DNA Synthesis in Geriatric Skin”; VA Clinical Merit 1101CX002241, ~$220,000 total costs/year, 4/1/21-3/31/25.


Craig Rohan
Principal investigator for trials in pediatric atopic dermatitis, pediatric psoriasis and adult psoriasis and remained subinvestigator on additional continuing trials involving psoriasis, prurigo nodularis, hidradenitis suppurativa and bulous pemphigoid.


Rohan, Craig (PI), Travers (Sub-I). (ARQ-151-312) Arcutis. “A Phase 3, 4-Week, Parallel Group, Double Blind, Vehicle-Controlled Study of the Safety and Efficacy of ARQ-151 Cream 0.15% Administered QD in Subjects With Atopic Dermatitis”. 05/2022 to 06/2023.

Rohan, Craig (PI), Travers (Sub-I). (ARQ-151-312) Arcutis. “A Phase 3, Multicenter, Open-Label Extension Study of the Long-Term Safety of ARQ-151 Cream 0.15% and ARQ-151 Cream 0.05% in Subjects with Atopic Dermatitis.” 05/2022 to 10/2023.

Rohan, Craig (PI), Travers (Sub-I). (ARQ-151-315) Arcutis. “A Phase 3, 4-Week, Parallel Group, Double Blind, Vehicle-Controlled Study of the Safety and Efficacy of ARQ-151 Cream 0.05% Administered QD in Subjects With Atopic Dermatitis.” 06/2022 to 06/2023.

Rohan, Craig (PI), Travers (Sub-I). (J2T-MC-KGBI) Eli Lilly. “A Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study to Assess the Efficacy, Safety and Pharmacokinetics of Lebrikizumab Compared to Placebo in Participants 6 Months to <18 Years of Age With Moderate to Severe Atopic Dermatitis.” 07/2022 to 12/2024.

Rohan, Craig (PI), Travers (Sub-I). (2T-MC-KGBJ) Eli Lilly. “A Phase 3, Multicenter, Long-Term Extension Study To Assess the Safety of Efficacy of Lebrikizumab in Participants 6 Months to <18 Years of Age with Moderate to Severe Atopic Dermatitis.” 03/2023 to 12/2025.

Rohan, Craig (PI), Travers (Sub-I). (M23-696) AbbVie. “A Phase 3b/4 Randomized, Open-Label, Efficacy Assessor Blinded Study, Comparing the Safety and Assessor Blinded Efficacy of Upadacitinib to Dupilumab in Subjects with Moderate to Severe Atopic Dermatitis.” 05/2023 to 05/2025.

Ravi Sahu


Sahu, Ravi/Miller (Co-PI), “Translational relevance of the PAF system in combination chemotherapy mediated microvesicle particles release”. BSoM Seed Grant RIF223301, 07/2021-06/2022.

Courtney Sulentic

Jeffrey Travers

Extramural awards (NIH, VA)

Travers, JB. R01 HL062996 (Travers). “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.” NIH/NHLB, $250,000 direct costs/year, 25% effort, 07/01/1999 to 6/30/2024. Co-I: Cool and Sahu

Pls, Jeffrey B Travers and Yanfang Chen, Co-PI David Cool, Craig Rohan. “UVB radiation-generated microvesicle particles as effectors for photosensitivity.” NIH R01 (NIHES031087, 04/01/2021 – 01/31/2025), $337,500, Co-PI. 04/2021-3/2026.

Travers, JB (Basic Science VA Merit Award 510BX000853). “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. $165,000 direct costs/year, 20% VA effort, 10/01/2010 to 03/31/2028.

Travers, JB (Clinical VA Merit Award 1101CX000809). “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. $150,000 direct costs/year, 20% VA effort, 7/01/2014 to 9/30/2023.

Travers, JB. R01 ES030113 (Gaddameedhi). NIH/ES subcontract to WSU-Michael Kemp for subcontract. 10/06/2020-10/31/2022.

Pharma-sponsored studies

Travers, JB, Corrona Psoriasis Registry (CorEvitas), 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. National Psoriasis Foundation, 07/01/2016 to 06/30/2024.

Travers, JB. WSP-07BARI. Eli Lilly and Company. “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.” 06/2019 to 10/2023

Travers, JB. AIN457M2301E1, Novartis, “A Multicenter, Double-blind, Randomized Withdrawal extension study of subcutaneous secukinumab to demonstrate long-term efficacy, safety and tolerability in subjects with moderate to severe hidradenitis suppurativa.” 06/2019 to 12/2022

Travers, JB (Bristol-Myers Squibb Company, IM011046-BMS-986165). 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. 09/01/2018 to 12/01/2019; extension until 2022.


Travers, JB (ARGX-113-2009) ArgenX. “A Phase 2/3, Randomized, Double-Blinded, Placebo-Controlled, Parallel-Group Study to Investigate the Efficacy and Safety of Efgartigimod PH20 SC in Adult Participants with Bullous
Pemphigoid." 03/2022 to 03/2024.

**Travers, JB (CNTO1959PSO3018) Janssen.** "Phase 3b, multicenter, randomized, double-blinded, interventional treatment study in skin of color participants with moderate to severe plaque psoriasis or moderate to severe scalp psoriasis. Skin of color includes the entire spectrum of Fitzpatrick types I-VI and anyone who self identifies as non-white/Caucasian (inclusive of multi-racial)." 09/2022 to 12/2024.


**Travers, JB (HZNP-DAX-202) Horizon Therapeutics.** "A Phase 2, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Trial to Investigate the Efficacy and Safety of a Range of Doses of Daxilimab Subcutaneous Injection in Reducing Disease Activity in Adult Participants with Moderate-to-Sever Primary Discoid Lupus." 06/2023 to 12/2025.

**Travers, JB (AK002-018) Allakos.** "A Phase 2 Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety, of Subcutaneous Study Drug in Adult Patients with Moderate-to-Severe Atopic Dermatitis Inadequately Controlled by Topical Treatments." 02/2023 to 06/2025.

**Travers, JB (INCB 18424-320) Incyte.** "A Phase 3, Double-Blind, Randomized, Vehicle-Controlled, Efficacy And Safety of Ruxolitinib Cream in Participants with Prurigo Nodularis." 06/2023 to 06/2025.

**Travers, JB (IM011-1130) Bristol Myers-Squibb.** "Phase 3b/4 Multi-Center, Randomized, Open-label Long-Term Safety Study of Deucravacitinib in Comparison to Active Comparator in Participants with Moderate to Severe Plaque Psoriasis." 07/2023 to 07/2026.

**Travers, JB (M23-702) AbbVie.** "A Phase 4 Multicenter, Randomized, Double-Blind Study of Risankizumab For the Treatment of Adult Subjects with Moderate to Severe Genital Psoriasis or Moderate to Sever Scalp Psoriasis." 07/2023 to 07/2026.

**Travers, JB (Asana BioSciences, LLC, ASN002AD-201-EXT).** 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. 01/01/2019 to 12/01/2022.

**Yongjie Xu**

Xu, Y, NIH R35GM144307, “Comprehensive mutational analysis of the checkpoint signaling function of Rpa1/Ssb1 in Fission Yeast.

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

**Yanfang Chen**


Mauricio Di Fulvio

Saber Hussain


Mike Kemp


Terry Oroszi


Craig Rohan


Egiebor E, Rohan CA, Shamma HN, Lichen Planus Pemphigoides Temporally Associated with Molluscum Contagiosum Virus Treatment, JAAD Case Reports, 2023, PMID: 23525126.


Ravi Sahu


**Courtney Sulentic**


**Jeffrey Travers**


Torralba EJ, Singh S, Short RF, Rapp CM, Henkels KM, **Sahu RP, Travers JB**. Radiation therapy pproduces mmicrovesicle particle rrelease in HaCaT keratinocytes. Skin Research Technology, 29(5):e13332, 2023. PMID: 37231923
Jongjie Xu
Bhadra S and Xu YJ (2023) TTT(Tel2-Tti1-Tti2) complex, the co-chaperone of PIKKs and a potential target for cancer chemotherapy. *Int. J. Mol. Sci.* 24(9), 8268. https://doi.org/10.3390/ijms24098268.


Books, chapters, reviews

F. Javier Alvarez-Leefmans


Mike Kemp


Terry Oroszi


Ravi Sahu


Courtney Sulentic


Jeffrey Travers


Published abstracts

F. Javier Alvarez-Leefmans

Khalid Elased

Dalia Elased, Daniel A. Branch, Jooho Oh, Luke J. Pepperney, Khalid Elased, Kedryn K. Baskin. High-Phosphate Diet Decreases ACE2 Expression and Activity in Mouse Kidney. Presented at the Ohio Physiological Society 36th Annual Meeting in Ohio State University, Columbus, OH, 2022

Mike Kemp
Alexandra Carpenter, Sri M Yerraprada, Meghan R Ginugu, Michael G Kemp. (2022). DNA Containing Bulky DNA Adducts is Released from Keratinocytes after Genotoxin Exposure. Environmental and Molecular Mutagenesis. 63(S1).

William H Cvammen and Michael G Kemp. (2022). Pharmacological Enhancement of the Circadian Clock Protects Keratinocytes from UV Damage and Increases Transcription of DNA Damage Response Genes. 63(S1).

Ravi Sahu
Krishna Awasthi#, Anita Thyagarajan#, Christine M. Rapp, R. Michael Johnson, Yanfang Chen, Jeffrey B. Travers, Ravi P. Sahu*. Impact of topical gemcitabine treatment on human and murine skin. (# These authors contributed equally). Annual Ohio Valley Society of Toxicology 2021 meeting, held on October 14th, 2022.


Courtney Sulentic
Sulentic, C.E.W.: A regulatory node within the immunoglobulin heavy chain gene may predict sensitivity to xenobiotics that alter antibody production. Toxicological Sciences, the Toxicologist, 192:1174, 2023.

Jeffrey Travers


Yongjie Xu
Ilknur Yurtsever and Yong-jie Xu (2023) Structural Determinants of the Checkpoint Functions of Mrc1, the Mediator of the DNA Replication Checkpoint Conserved in Eukaryotes. 22nd Midwest DNA repair symposium May5-7, 2023, The University of Iowa, Iowa City, IA.

Yong-jie Xu, Kamal Dev, Sankhadip Bhadra, Alaa Taha A. Mahdi, and Ilknur Yurtsever (2023) Comprehensive mutational analysis of the checkpoint signaling function of Rpa1/Ssb1 in fission yeast. 22nd Midwest DNA repair symposium May5-7, 2023, The University of Iowa, Iowa City, IA.

Sankhadip Bhadra, Saman Khan, Kamal Dev, Ilknur Yurtsever, and Yong-jie Xu (2023) Potential role of the TTT (Tel2-Tti1-Tti2) complex in regulating DNA replication checkpoint in fission yeast. 22nd Midwest DNA repair symposium May5-7, 2023, The University of Iowa, Iowa City, IA.
Significant presentations [e.g., to academic societies, medical schools and national professional societies.]

F. Javier Alvarez-Leefmans

Europhysiology 2022, Copenhagen, Denmark, invited a speaker to the Symposium “NKCC1 in the choroid plexus: which way to go?”. The meeting was organized by The Physiological Society (UK), The Scandinavian Physiological Society, The German Physiological Society, and the Federation of European Physiological Societies September (16-18, 2022).

Mike Kemp

40th Meeting of the American Society for Photobiology, Albuquerque, New Mexico (co-chair and invited talk, Symposium on Circadian Clock and Aging in Skin Carcinogenesis), September 2022.

22nd Annual Midwest DNA Repair Symposium, Iowa City, Iowa (poster presentation), May 2023.

Terry Oroszi

TEDx: Recognizing at Risk Individuals for Violent Extremism and Providing the tools to Steer them Down a Better Path. Dayton, OH., Oct 2022.

Homeland/Corporate Security and Leadership - Slippery Rock University, Slippery Rock, PA., Nov. 2022.


Craig Rohan

Grand Rounds at Harvard CH Chan School of Public Health.

Lecture at Ohio Dermatologic Association.

Interviewed for 2 podcast episodes of the “Curbsiders” Medical Podcast.

Ravi Sahu

Oral Presentations (via video conferencing) as an Invited speaker:


Relevant model systems to determine the effects and mechanisms of topical chemotherapeutics (via video conferencing). 12th World Gene Convection (WGC) 2023, Sapporo, Japan.

Drug repurposing for melanoma intervention (via video conferencing). (Keynote Speaker). TOXICOLOGYMEET2022, Dubai, UAE.

Drug repurposing and cancer prevention (via video conferencing). International Conference on Emerging Concepts in health and Disease Management (ICECHDM)-2022. Organized by the Department of Biochemistry, University of Kerala at Kerala, India.

Mechanistic insights into the Chemopreventive effect of aspirin (via video conferencing). Keynote Speaker. 4th International Conference on Cancer Research and Therapy 2022 organized by Conference Mind.


Courtney Sulentic

Regulation of Antibody Production: Getting Environmental cues from the AhR? AhR Symposium 2022: Toxicity to Therapeutics, Penn State University, State College, PA 2022.

Research was highlighted in Perdew et. al., The Ah Receptor from Toxicity to Therapeutics: Report from the 5th AHR Meeting at Penn State University, USA, June 2022. International Journal of Molecular Sciences, 24:5550-5566 (2023).

Human Cells as Non-Animal Alternative Approaches for Immunotoxicity Testing, Society of Toxicology, Nashville, TN, 2023. Invited Speaker: A regulatory node within the immunoglobulin heavy chain gene may predict sensitivity to xenobiotics that alter antibody production.

Allex-Buckner, C., Bhakta, M., Burra, Kaulini, Sulentic, C. E. W. Activation of the AhR Differentially alters Human IGH Isotype Expression Profiles. AhR Symposium 2022: Toxicity to Therapeutics, Penn State University, State College, PA 2022.


Jeffrey Travers

Under Continuing Medical Education section.

Consultantships [sponsor activity]

David Cool

VA Travers (PI) Funded Consultant, Oxidized Lipids and UV Immunosuppression, 2020-2024.

Terry Oroszi

Gerson Lehrman Group (G.L.G.) Council Member – as needed
N.S.F. Grant $125/hr., at 80 hours of consulting on deception in clearance interviews.

Courtney Sulentic

CBS News Inquiry (free of charge). Data analysis and risk assessment of a third party’s chemical analysis of soil and water after the East Palestine train derailment.
Other recognition [e.g. editorships, reviewer awards]

F. Javier Alvarez-Leefmans
Associate Editor, Frontiers in Membrane Physiology and Biophysics. Frontiers Journals. Science Park PSE-D, CH –1015 Lausanne, Switzerland.

Ad hoc Reviewer for the following journals during the period reported: Frontiers in Physiology and The American Journal of Physiology-Cell Physiology.

David Cool
Editorial Board, Interdisciplinary Toxicology, 2014-present.

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

Khalid Elased
Associate Editor of the Renal Pharmacology Section of Frontiers in Pharmacology.

Saber Hussain
Editorial Positions for:
Guest editor, Frontiers of Toxicology, Nanoparticles and Nanoplastics toxicity. 2023-present.
Editorial member of Indian Defense Journal, 2020-present.
Journal of Nanotoxicology, 2014-present.

Mike Kemp
Grant Reviewer, Oak Ridge Associated Universities (ORAU)/Nazarbayev University Research Council (Kazakhstan); Sept. 2022.

Terry Oroszi

Craig Rohan
Reviewer for Skin Research and Technology Journal.

Ravi Sahu
Editorial Board member, Associate editor, and reviewer for several scientific journals.
Publication is the Featured Cover Image Highlight, Skin Research & Technology Journal 2023.
Publication published in Mini-Review in Medicinal Chemistry and Cover Image Highlight.

Courtney Sulentic
Lead Topic Editor for Frontiers in Toxicology, Immunotoxicology Special Topic: Role of the Aryl Hydrocarbon Receptor in Immune Modulation, 2021-2022, current views ~12,000.
Student advising

F. Javier Alvarez-Leefmans
Pharmacology & Toxicology Leader Admin track students - 9

Yanfang Chen
Leader Admin Advisor
Hamad Albaqami
Harish Kothapalli
Divya Akhila Yekkala
David Cool
PhD Advisory Committee
Jananie Rockwood, BMS Rep, Graduated 2023
Adaku Ume, MD/PhD BMS co-advisor, Graduated 2023
Kristen Rehl, BMS rep, Graduated 2023
Christina Davidson, BMS committee, Projected graduation 2023
Mia Burnett, BMS committee, Projected graduation 2025
Bryan Mayville, BMS committee, Projected graduation 2024
Philip Walker, MD/PhD committee member, BMS, Projected graduation 2024

Thesis Advisory Committee
Shikshita Singh, PTX, Grad. 2023
Leader Admin MS Advisor
8 students

Mauricio Di Fulvio
Thesis Advisory Committee
Yaksh Rathod, PhD BMS advisor, 2021-2026

Leader Admin MS Advisor
Advising 11 students

Khalid Elased
Thesis Advisory Committee
Sydney White, MS student committee, Graduated summer 2022
Adaku Ume, MD/PhD student, committee
Danielle Adams, MD/PhD, committee
Yakshkumar Rathod, PhD committee member

Leader Admin MS Advisor
Meeti Champaneria
Zaid Sirhan, graduated spring 2022
Eswar Valmiki, graduated summer 2022
Anisha Cherukuri
Jaypalsinh Gohil
Prashanthi Bommineni, graduated spring 2022
Vimarsh Joshi
Adil Mohammed
Rama Bandi
Yashasvi Jagapathi
Saranya Chandaka
Shaheela Shaheela
Pooja Chimata

Saber Hussain
Advisory Committee
Capt. Bryan Mayville, PhD student, 2020-2023
Soham Parikh, PhD student committee, 2021-current
Mia Burnett, PhD student, co-advisor, 2022-current
(10) Summer Intern students from WPAFB
**Mike Kemp**

Pharmacology & Toxicology Master’s Students

Mentor for:
- Balaram Gudapati
- Lahari Paladugu
- Chandana Nimmala
- Dvijendra Tamirisa
- Vamshi Beemanapalli
- Suma Chigurupati
- Niharika Annapureddy
- Yeseswi Guduri

Thesis Advisor for:
- Hrishikesh Kadam (2022-2023)
- Prashant Gaikwad (2022-2023)
- Swathi Kavuri (2022-2023)
- Aleena Alex (2022-expected 2024)

Thesis Committee member for:
- Rushabe Lohade (2022-2023; Travers)
- Krishna Awasthi (2022-2023; Sahu)

Biomedical Sciences Ph.D. Students

- William Cvammen (2020-present; thesis advisor)
- Sri Meghana Yerrapragada (2022-present; thesis advisor)
- Bryan Mayville (2022-present; Hussain)
- Miliben Bhakha (2021-present; Sulentic)
- Resha Shretha (2021-present; Leffak)
- Sankhadip Bhadra (2020-present; Xu)
- Akshay Hira (2020-present; Kadakia)
- Venicia Hawach (2020-present; Leffak)
- Rujuta Gadgil (2019-present; Leffak)
- Eric Reed (2019-present; Sulentic/Nelson)

**Terry Oroszi**

Leader Admin MS Advisor

- Aarita Sood
- Ajay Undrakonda
- Alexander Opoku
- Anusha Chinthareddy
- Jessica Hong
- Kesha Patel
- Mark Robinson
- Meghana Anagani
- Mohammed Burhan Uddin
- Nahla Khader
- Narasimha Mallampati
- Rachana Balusa
- Sherin Mathew
- Soumya Erri
- Venkatesh Kilari
- Vinitha Sakhamuri

PhD Advising

Michele Miller, co-advisor, graduated 2022.
Craig Rohan
MD/MS Co-Advisor
Steven Repas, graduated spring 2022
Sharlo Bayless, graduated spring 2022
Ben Schmeusser, graduated spring 2022
Jacob Dickman, graduated spring 2022
Zafer Sattouf, graduated spring 2022
Danielle Corbin
Janet Lubov
Maansi Kulkarni
Megan Cleary
Alex Vollmar
Ericson Torralba
Timothy Frommeyer
Michael Gilbert
Garrett Fisher
Afreiya Henderson
Mark Ortenzio
Winston Owens
Andrea Shugar
Rebecca Reese
Richard Fox
Rita Kamoua
Michael Leake
Youngjun Park

Medical students, dermatology residency positions.

Ravi Sahu
Thesis Mentor/Advisory Committee
Chad Brewer, committee, graduated spring 2022
Mashael Alyahya, committee, graduated summer 2022
Sydney White, MS student, graduated summer 2022
Krishna Awasthi
S. Chitra, committee

Leader Admin MS Advisor
Sreevalli Chirumamilla
Vaibhav Gajjar
Rachana Pathipaka
Lakshmi Devaropalli
Sai Priya Devarkonda

Courtney Sulentic
Graduate Research Trainees:
Sailaja Rachakonda, Pharm/Tox M.S.
Vamshi Beemanapalli, Pharm/Tox M.S.
Elissa Wakim, M&I M.S.
Sydney White, Pharm/Tox M.S., graduated 2022
Mia Williams Burnett, ES Ph.D. program
Mii ben Bhakata, BMS Ph.D. program
Eric Reed, BMS Ph.D. program; co-advisor Tyler Nelson, Ph.D. Wright Patterson AFB
Clayton Buckner, BMS Ph.D. program; co-advisor Mike Raymer, Ph.D., Dept. Computer Science, WSU; graduated 2023 with M&I M.S.

Graduate Advisory Committees:
Pharmacology & Toxicology M.S. program
Modhi Alshammari, graduated 2022
Microbiology & Immunology M.S. program
Makda Gebrezgi
Yamini Somanchi
Lalitha Sheetal, graduated 2023

Biomedical Sciences Ph.D. program
Rujuta Gadgil (BMS representative)
Yakshkumar Rathod (BMS representative)
Anthony Young (BMS representative)

PTX non-thesis Graduate Student Mentees:
Babitha Kasula
Vineel Jampani
Bhavitha Madala
Chandana Madala
Shiva Nanavath
Babitha Sri
Sruthi Sagiraju
Bhavana Kasaraneni
Aleena Alex
Bhuvaneswari
Shrutiben Patel

Jeffrey Travers
Primary Advisory/Committee member
Chad Brewer, MS student, advisor, graduation spring 2022
Cvammen William, BMS PhD student, committee, 2020-present
Pranali Manrekar, MS advisor, graduated 2023.
Shikshita Singh, MS advisor, graduated 2023.
Rushabh Lohade, MS advisor, graduated 2023.

MD/MS Co-Advisor
Steven Repas, graduated spring 2022
Sharlo Bayless, graduated spring 2022
Ben Schmeusser, graduated spring 2022
Jacob Dickman, graduated spring 2022
Zafer Sattouf, graduated spring 2022
Danielle Corbin
Janet Lubov
Maansi Kulkarni
Megan Cleary
Alex Vollmar
Ericson Torralba
Timothy Frommeyer
Michael Gilbert
Garrett Fisher
Afryea Henderson
Mark Ortenzio
Winston Owens
Andrea Shugar
Richard Fox
Rita Kamoua
Michael Leake
Rebecca Reese
Youngjun Park

Yongjie Xu
Primary Advisory/Committee member
Postdoctoral fellows:
Dr Kamal Dev
Dr Ilknur Yurtsever

**PhD Student:**
Sankhadip Bhardra

**Research Track MS students:**
Kajal Davi, advisor
Yeseswi Archana Guduri, advisor
Hrishikesh Kadam, committee
Krishna Awashhi, committee
Naga Swathi Kavuri, committee
Prashant Gaikwad, committee
Rujuta G. Yashodhan (PhD student in Dr. Michael Leffak’s lab)
William Cvammen (PhD student in Dr. Kemp’s lab)
Akshay Hira (PhD student in Dr. Kadakia’s lab)

**Committee membership/officer** [indicate if committee chair]

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

**F. Javier Alvarez-Leefmans**
Pharmacology and Toxicology Faculty Affairs and Development Committee

**David Cool**
Pharmacology and Toxicology Faculty Affairs and Development Committee, Chair
BMS Admissions Committee

**Khalid Elased**
BSOM Research Committee
Pharmacology and Toxicology Faculty Affairs and Development Committee
BSOM Faculty Curriculum Committee

**Mike Kemp**
Pharmacology and Toxicology Education Committee, 2021-present
Curriculum Committee, WSU BMS PhD program, 2022-2023

**Terry Oroszi**
BSOM Continuing Medical Education Committee (CME) and Toxicology Education Committee
Pharmacology and Toxicology Education Committee, 2021-present, Chair
Pharmacology and Toxicology Admissions Committee, 2021-present, Chair
BSOM Nominations Committee

**Craig Rohan**
Dermatology Clinical Competence Committee
Quality Control for Wright State Physicians

**Ravi Sahu**
Academic Advisor for medical students

**Courtney Sulentic**
Faculty Promotion and Advancement Committee, elected member, BSOM, 2020-2022
BSOM Strategic Plan, Research Subcommittee
Faculty Affairs and Development Committee (FADC), Pharm/Tox
Education Committee, Pharm/Tox

Service:
BSOM Medical Student Research Symposium Poster/Presentation Judge

**Jeffrey Travers**

WSU Executive Committee, 2015-present
Dean’s Research Chairs Committee, 2015-present
Scholarship in Medicine, Basic Science Track Committee, Chair 2018-present
Premier Medical Center Research Institute Steering Committee, 2022-present

**Yongjie Yu**

Member of the Educational Committee in the Department of Pharmacology & Toxicology

**Wright State University**

**David Cool**

BMS Admissions Committee

**Mauricio Di Fulvio**

BMS Admissions Committee

**Khalid Elased**

Laboratory Animal Care & Use Committee

**Mike Kemp**

Ad-hoc committee to recommend applicants for NSF MRI, January 2023.
BMS PhD Admissions Committee, 2021-2022

**Terry Oroszi**

WSU Faculty Senator (2019 – Present)
WSU International Program Oversight Committee (IEAC), Chair (2021 – Present)
WSU Commencement Committee (2022 – Present)
WSU Building and Grounds Committee (2022 – Present)
WSU Faculty Senate Executive Committee (2022 – Present)
WSU Medical Advisory Group (2022 – Present)
WSU Commencement Committee (2022 – Present)

**Ravi Sahu**

Institutional IACUC and IBC Committees

**Courtney Sulentic**

Nominating Committee, BMS Ph.D. Program, elected member, 2021-2023
Women’s Peer Mentoring Group, initially supported by the NSF-funded LEADER Program at WSU
Women in Science Giving Circle member, 2016-present
Yongjie Xu
BMS PhD Student Admission Committee, 2021-2022

Wright State Physicians

Saber Hussain
Premier Health Research Committee member led by Dr. Joshua Lader.

Hospital or affiliated institution [name]

State

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

Mike Kemp
Dayton VA Medical Center Subcommittee on Research Safety, Feb 2020-present
Awards & Honors Committee, Environmental Mutagenesis and Genomics Society, 2017-present, Chair 2019-present.

National

Mauricio Di Fulvio
Advisory Committees – Study sections of Molecular & Cellular Endocrinology & Membrane Transporters & Receptors
National Agency for the Promotion of Science and Technology, Argentina

Khalid Elased
American Heart Association High Blood Pressure Council Conference Review Committee.
Member on the American Heart Association KCVD Committee of the Council on the Kidney in Cardiovascular Disease.
Delegate of WSU Boonshoft School of Medicine to the United States Pharmacopeia (USP) Convention.

Mike Kemp
Honors and Awards Committee, Environmental Mutagenesis and Genomics Society, 2017-present, Chair 2019-present.
Excellence in Science Award Committee, FASEB, 2020-present

Terry Oroszi
InfraGard National Members Alliance Officer
NYPD SHIIELD
Courtney Sulentic

Society of Toxicology:

Presidential Chain for Women in Toxicology Special Interest Group, Society of Toxicology
Vice President, 2021-2022
Past President, 2022-2023

Mentor Match program, mentor, Society of Toxicology

Service at the 2022 SOT Annual Meeting in San Diego, CA:
- Presided over the Women in Toxicology Special Interest Group Annual Reception
- Invited Expert, Colgate-Palmolive Luncheon
- Host for Poster Tours in Immunotoxicity, Postdoctoral Assembly
- The Graduate School Breakout session, Undergraduate Program, Committee on Diversity Initiatives, Panelist

Ad-hoc reviewer for several journals

Jeffrey Travers

NIH Grant Review Panels
NAIMS T32 grant reviewer October 2022, chair

VA Grant Review Panels
VA Oncology D/E Review Panel, November 2022, Co-chair
VA Oncology D Review Panel, May 2023, chair

Other

Yanfang Chen

Departmental Core for Preclinical Pharmacology, Director

Khalid Elased

Member of Scientific Societies
American Diabetes Association (ADA)
American Physiological Society (APS)
Fellow of the American Heart Association (AHA)
Member of the American Society of Nephrology (ASN)

Mike Kemp

Manuscript Reviewer (25 manuscripts): International Journal of Molecular Sciences (x6); The Lancet Oncology; Photodermatology, Photoimmunology, & Photomedicine (x2); Biology; Frontiers in Genetics; Journal of Biochemical and Molecular Toxicology; Proteins; Cancers, Communications Biology; Mutation Research; Journal of Pharmaceutical Research International; Theromotics; Journal of European Dermatology Venerology; Frontiers in Oncology; Genes; Biomedicine and Pharmacotherapy; Journal of Insect Physiology; Environmental and Molecular Mutagenesis; Drug Design, Development, and Therapy

Ravi Sahu

Community Service:
Faculty Judge for State Science Day, The Ohio Academy of Science
Faculty Judge for Buckeye Science & Engineering Fair
Courtney Sulentic
COVID Conway Communications Reboot Newsletter, reviewer and contributor

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

Craig Rohan
Dermatology clinics at Wright State Physicians (two half-days/week) and Dayton VA Medical Center (one half-day/week).

Jeffrey Travers
Dermatology clinics at Wright State Physicians and Dayton VAMC.

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Honors and awards [Faculty or staff]

Mike Kemp
Junior Faculty Award, Wright State University Academy of Medicine, April 2023.

Craig Rohan
“Dayton’s Top Dermatologist” award

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Hosted events [CME, etc.]
Other information

[Other information that represents your department’s contribution to the academic mission of the Boonshoft School of Medicine.]

**Yanfang Chen**

Director, Pharmacology & Toxicology Departmental Core for Preclinical Pharmacology

**David Cool**

Proteome Analysis Laboratory, Director, 2004-present

**Collaborations & Consultants**

Dr. Karen Parker, Stanford University- OT & AVP in Autism, 2009-present
Dr. Steven Lindheim 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 Paliy- 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. Steven Lindheim OB/GYN Polycystic Ovary Syndrome, 2014- present
http://clinicaltrials.gov/ct2/show/study/NCT01487486
Dr Miryong Lee- (Texas A&M) 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. Jiri Sonek & Dr. David McKenna, MVH- OB/GYN, BioMarkers for Preterm Delivery Ongoing Research Project.

**Mauricio Di Fulvio**

Review Editor Frontiers in Endocrinology
Review Editor Frontiers in Neurosciences
Reviewer Scientific Reports, Nature Communications
Reviewer PLoS one
Reviewer Lancet
Reviewer American Journal of Physiology
Reviewer European Journal of Physiology

**Khalid Elased**

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

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
Research Peer Review:


**Saber Hussain**
Participated and advised in DURIP proposal for equipment through AFOSR 2022
Assisting other faculties 2023
Participated in DHP-DoD proposals JPC-6 and JPC-5.
Collaboration with Dr. Travers through summer intern.

**Terry Oroszi**
Departmental seminar speakers, hosted
Dr. Swapnil Shawale, alum
Mike Shannon, former NIH director
Dr. Mark Gebhart, EM physician
Vice Chair
Provost/Dean visit
BSOM PTX Budget
Department facilities contact
Education program marketing (Green wall, where are They Now Posters, Faculty Posters)
Micro credential -Toxicology

**Craig Rohan**
Assisted Drs. Sahu and Travers with ongoing efforts to expand research in new clinical areas (burn research and oncology research).

**Ravi Sahu**
Faculty Judge and moderator for Scholarship in Medicine (SCH) presentation day.
Faculty Judge for DAGMEC Virginia C. Woods Resident Research Forum.
Member of the evaluation committee for the Medical Sciences Travel Award
Guest editor for a special issue in medical sciences journal

**Courtney Sulentic**
Finalizing experiments for manuscripts and grants, writing and submitting manuscripts for publication, and grant writing.

Submitted:
DURIP Equipment Proposal, PI Sulentic
"ImageXpress High-Content Imaging System to Support AFRL Collaborative Projects on the Interplay between Circadian Rhythms and Cellular Responses to Operation Stress"

Boehringer Ingelheim, PI DiFulvio, co-I Sulentic and Elased. “S1P3 antagonism protects against development and progression of metabolic dysregulation”

Major Research Instrumentation Program, National Science Foundation, PI Markey “MRI: Track 1 Acquisition of a PacBio Sequel Ile for Research and Education”

Toxic Exposures Research Program, Department of Defense, PI Sulentic, co-I Mauzy “Immunotoxicant Exposures and Individualized Immunomodulation via IgH Variants” Not funded

Hands-on Training on the EPA computational toxicology chemicals dashboard, interactive webinar, 2022

I continue to be a very active mentor to my students and consistently strive to facilitate career development opportunities as well as exposure to peers and professionals by facilitating attendance to local and national scientific meetings as evidenced by the number of student presentations highlighted above. In addition to devoting much time to mentoring and teaching, I have also focused the activities in my lab on finalizing experiments for manuscripts and grants, writing and submitting manuscripts for publication, and grant writing. In collaboration with Dr. Camilla Mauzy (Wright Patterson Air Force Base), I submitted a grant specific to Department of Defense’s Toxic Exposures Research Program. It was not funded but received fairly positive review. With the encouragement of Dr. Saber Hussain (Wright Patterson Air Force Base), I submitted an DURIP equipment grant, which is still in review. I have also worked with colleagues within the department, specifically Drs. Di Fulvio and Elased, to work on a new R01 proposal and we also submitted a company-solicited research proposal, which is in review. My lab has also focused on publications, which has resulted in three publications and one that is in review. We have three others that we are actively working on completing. In addition to the above efforts, my involvement in professional societies, university committees, academic teaching and student mentoring has remained steady. In May of 2023, I completed my service on the Presidential chain for the Women in Toxicology special interest group in the Society of Toxicology. The Society of Toxicology is a large organization with over 7000 national and international members. It is a very active society.

My goals for 2023-2024 are to continue focusing effort on my research program, most specifically on publishing papers, resubmitting my R01 grant and submitting a new R01 with Drs. Di Fulvio and Elased. I have communicated with my Program Officer to ensure that my grant goes to the proper study section. I am hopeful that my revised R01 grant will be funded but I will continue my efforts to expand my grant opportunities including collaborative grant opportunities. To this end I have initiated collaborations with experts inside and outside of WSU who are willing to contribute statistical, technical, genetic and bioinformatic expertise. As mentioned above, these collaborations have resulted in submission of research proposals during the past year. I also have an ongoing proteomics collaboration with Dr. Sean Harshman, which has helped support a student and is directly related to my current research efforts. I am looking forward to strengthening translational collaborations already initiated with Drs. Travers, Rohan, Walusimbi, and Polenakovik and identifying common research goals and potential collaborative activities with other faculty within the Pharm/Tox department and at WSU. I am currently working closely with Dr. Mike Raymer who is co-mentoring my Ph.D. student (Clayton Allex-Buckner) and providing bioinformatic expertise. I will maintain my long-standing collaboration with Dr. Saber Hussain and other scientists, including Drs. Cam Mauzy, Wanda Lyon, and Tyler Nelson at Wright Patterson Air force Base.

Jeffrey Travers

LAR advisor, 2022-2023
Secondary appointment in Dermatology, help review dermatology resident progress 2-3x per year.