Department of/Office of Pharmacology & Toxicology

Annual Report:

July 1, 2020 – June 30, 2021

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

The Department has experienced a very good year as measured by success in our education, service and research missions. The faculty are unified with a high *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.

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

**Educational Mission.**

Despite the pandemic the department was able to provide courses online and allow professors to teach during both semesters in order for us to maintain our student population.

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 Translational Unit (PTU) for educational purposes. Given the shortages of clinically-trained positions in the pharmaceutical industry, this new concentration fills an important need.

Today we are able to offer incoming students the following options:

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

**Other:**
- Offering practical courses like Six Sigma (With optional Green and Black Belt Certifications)
- Improved relations with WPAFB/AFRL

Dr. Terry Oroszi has become Vice Chair, with her emphasis on educational programs. With our 20th anniversary of our MS program this Fall, we are currently planning a celebration scheduled for Friday October 15th. The festivities will include one of our alumni serving as the Earl H. Morris Endowed Lecturer, as well as a fund-raising initiative to create a 20th Anniversary Student Scholarship Fund. We are also taking this opportunity to fund an external review of the departmental educational programs.

**Research Mission.**

Research efforts are moving along well, with the majority (~80%) of our faculty either funded by effort or are submitting extramural proposals. The movement of part of the laboratory of long-term faculty colleague Dr. Saber Hussain from Wright Patterson AFB to departmental laboratory space (supported by a CRADA award) will further enhance our research infrastructure. More NIH/VA-funded translational studies and pharma-supported clinical trials are in place in the PTU. Faculty in the Department have also been publishing many manuscripts, to include in high impact journals (eg, two in the Journal of Clinical Investigation).
Departmental faculty have also been very active in the service category. These efforts include service locally, as well as at the national level. The addition of new faculty member Craig A. Rohan MD, enhances the clinical services as well as adds to the educational and research missions.

The past year has been a good one and we have plans in place to make the next years even better!

## Programs/Divisions

<table>
<thead>
<tr>
<th>Name of Division or Program</th>
<th>Director</th>
<th>Dates</th>
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</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>
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<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>
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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>Pharmacology Translational Unit (PTU)</td>
<td>Jeffrey Travers, MD, PhD</td>
<td>2015-present</td>
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<tr>
<td>Name and Academic Position</td>
<td>Clinical Interests</td>
<td>Research Interests</td>
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<tr>
<td>F. Javier Alvarez-Leefmans, MD, PhD, Professor</td>
<td>Neuroscience, molecular physiology &amp; pharmacology, clinical neurology</td>
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<tr>
<td>Yanfang Chen, MD, PhD, Professor</td>
<td>Cardiovascular disease, cerebrovascular complications</td>
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<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. Proteomic and genomic changes in response to endocrine diseases. Developing protocols and facilities for proteome, lipid and carbohydrate analysis</td>
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<tr>
<td>Mauricio Di Fulvio, PhD, Associate Professor</td>
<td>Diabetes</td>
<td></td>
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<tr>
<td>Khalid Elased, PharmD, PhD, Professor</td>
<td>Diabetes, cardiovascular</td>
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<tr>
<td>Saber Hussain, PhD, Professor</td>
<td>Nanoparticles</td>
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</tr>
<tr>
<td>Mike Kemp, PhD, Assistant Professor</td>
<td>How human cells maintain the integrity of their genomic DNA, particularly in response to environmental genotoxins such as ultraviolet (UV) light.</td>
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<tr>
<td>Terry Oroszi, EdD, Assistant Professor</td>
<td>Healthcare and Homeland Security (Terrorism/CBRN/Crisis Decision Making)</td>
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<tr>
<td>Craig Rohan, MD, Assistant Professor Pharm/Tox</td>
<td>Translational Medicine</td>
<td>Clinical Trials, Wright State Pharmacology Translational Unit</td>
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<tr>
<td>Associate Clinical Professor, Dermatology</td>
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<tr>
<td>Associate Medical Director PTU</td>
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<tr>
<td>Staff Physician, Dayton VA Medical Center</td>
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<tr>
<td>Ravi Sahu, PhD, Assistant Professor</td>
<td>Cancer pharmacology</td>
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<tr>
<td>Courtney Sulentic, PhD, Associate Professor</td>
<td>Immunology</td>
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<tr>
<td>Name and Academic Position</td>
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<td>Research Interests</td>
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<tr>
<td>Jeffrey Travers, MD, PhD, Professor and Chair Professor of Dermatology Staff Physician, Dayton VA Medical Center</td>
<td>Translational Medicine</td>
<td>Skin inflammation/cancer, lipid pharmacology Clinical Trials, Wright State Pharmacology Translational Unit</td>
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<tr>
<td>Yong-jie Xu, MD, PhD, Associate Professor</td>
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<td>Genome integrity, signaling mechanism of replicator checkpoint</td>
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</tbody>
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### Teaching

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

**Courtney Sulentic**

M&I 4260 4260 Microbiology and Immunology, Lecturer, Fall 2020.

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

**F. Javier Alvarez-Leefmans**

PTX 7021 Effective Scientific Writing I, Director, Fall 2020
PTX 7022 Effective Scientific Writing I, Director, Spring 2021
PTX 7021 Effective Scientific Writing II, Spring 2021
BMS 8750 Neuroscience and Physiology, Lecture, Spring 2021

**Member PhD Committee**

Eva Kjer Ørnbø, University of Copenhagen, Denmark.

**Yanfang Chen**

PTX 8000 Cell Culture Training, Summer 2020
PTX 7021 Effective Scientific Writing I, Fall 2020
PTX 7022 Effective Scientific Writing I, Spring 2021
PTX 7021 Effective Scientific Writing II, Spring 2021
PTX 8070 Cell Culture Training, Spring 2021

**Thesis Advisor**

Kartheek Pothana, MS student, graduated December 2020

**Thesis Advisory Committee**

Venkata Sai Usha Sri Polaki, MS student, graduated July 2020
Langni Liu, BMS PhD student, graduated July 2020

**David Cool**

PTX 7020 Laboratory Management (Online), Director, Fall 2020
PTX 7020 Laboratory Management (Online), Director, Spring 2021
PTX 7020 Laboratory Management (MD/MS Online), Director, Summer 2021
BMS 805 Intercellular Communication-neuropeptide transmitters and receptors, Spring 2021

**PhD Advisory Committee**

Prithy Martis, BMS Rep, Graduated 2020
Soham Parikh, BMS Rep, Graduated 2021
Ben Schmitt, BMS committee, Graduated 2020
Jananie Rockwood, BMS Rep, Projected graduation 2022
Adaku Ume, BMS co-advisor, Projected graduation 2022
Phillip Walker, MD/PhD BMS committee, Projected graduation 2021
Xiu Huan Yap, BMS committee, Graduated 2021
Hannah Shows, BMS committee, Projected graduation 2022
Kristen Rehl, BMS rep, Projected graduation 2022
Christina Davidson, BMS committee, Projected graduation 2023

Thesis Advisory Committee
Venkata Sai Usha Sri Polaki, MS student, graduated July 2020
Langni Liu, BMS PhD student, graduated July 2020

**Mauricio Di Fulvio**

PTX 7300 Cellular Pharmacology & Toxicology, 8 sessions, Co-director, Spring 2021
PTX 7110 Journal Club, Director, Fall 2020

Thesis Advisory Committee
Rana Abdeljawad, MS advisor, Graduation 2021
Modhi Alshammari, MS advisor, Projected graduation fall 2021
Yaksh Rathod, MS advisor, Graduation spring 2021
Yaksh Rathod, PhD BMS advisor, 2021-2026
Charles Luu, Committee member
Abdullah Alshudukhi, PhD BMS committee member
Tahir Amin Sulehria, PhD BMS committee member

**Khalid Elased**

PTX 7001 Cellular Pharmacology & Toxicology, Co-director, Spring 2021

Thesis Advisory Committee
Harshal Sawant, MS student leader admin lab project, Graduated summer 2020
Yakshkumar Diliphbhai Rathod, MS student committee member, Graduated spring 2021
Rana Abdeljawad, MS student committee member, Graduated summer 2021
Sydney White, MS student committee, Projected graduation fall 2021
Adaku Ume, MD/PhD student, committee
Christiana Draper, MD/PhD student, committee

**Saber Hussain**

Advisory Committee
Capt. Bryan Mayville, PhD student, 2020-2023
Soham Parikh, PhD student committee, 2021-current

**Mike Kemp**

PTX 8007 Career Planning in Pharmacology & Toxicology, Fall 2020
PTX 8020 Pharmacology & Toxicology of DNA Damaging Agents, Spring 2021
PTX 8007 Career Planning in Pharmacology & Toxicology, Spring 2021
PTX 7012 Intro to Research 5 weeks rotation, Spring 2021
PTX 7002 Journal Club, Summer 2021
BMS 9970 Lab rotation, 7 weeks rotate, Summer 2021

Thesis Advisory Committee
Vivek Gogusetti, MS student, advisor, Graduated spring 2021
Nadeen Anabtawi, MS student, advisor, Graduated spring 2021
Meghana Ginugu, MS student, committee, Graduated spring 2021
William Cvammen, BMS PhD student, 2020-present
Alex Carpenter, PhD, postdoctoral training, 2020-present
Saman Khan, PhD, postdoctoral training, Feb 2021-present

**Terry Oroszi**
PTX 7000 Healthcare and Homeland Security Journal Club, Spring 2020
PTX 7021 Effective Scientific Writing I, online, Spring 2020
PTX 7022 Effective Scientific Writing II, online Spring 2020
PTX 8000 Leadership, Theory and Application, Spring 2020
PTX 8140 Human Studies Research, Spring 2020

PTX 7000 Healthcare and Homeland Security Journal Club, Summer 2020
PTX 7022 Effective Scientific Writing II, online Summer 2020
PTX 8140 Human Studies Research, Summer 2020

PTX 7022 Effective Scientific Writing I, Fall 2020
PTX 8000 Leadership, Theory and Application, Fall 2020
PTX 7012 Introduction to Research, Fall 2020

PTX 7012 Introduction to Research, Spring 2021
PTX 7021 Effective Scientific Writing Part I, online, Spring 2021
PTX 7022 Effective Scientific Writing Part II, online Spring 2021
PTX 8000 Leadership, Theory and Application, Spring 2021

Co-advisor
Cameron McGlone, MD/MS student, advisor, Graduated 2021
Robert Hoopes, MD/MS student, advisor, Graduated 2021
Ryan Gabbard, MD/MS student, advisor, Graduated 2021
Roy Chen, MD/MS student, advisor, Graduated 2021
Sabina Bashir, MD/MS student, advisor, Graduated 2021
Sharlo Bayless, MD/MS student, advisor, 2019-
Jacob Dickman, MD/MS student, advisor, 2019-
Steven Repas, MD/MS student, advisor, 2019-
Zafer Sattouf, MD/MS student, advisor, 2019-
Benjamin Schmeusser, MD/MS student, advisor, 2019-
Maansi Kulkarni, MD/MS student, advisor, 2020-
Danielle Corbin, MD/MS student, advisor, 2020-
Janet Lubov, MD/MS student, advisor, 2020-
Timothy Frommeyer, MD/MS student, advisor, 2020-
Michael Gilbert, MD/MS student, advisor, 2020-
Megan Cleary, MD/MS student, advisor, 2020-
Alexander Vollmer, MD/MS student, advisor, 2020-
Ericson Torralba, MD/MS student, advisor, 2020-

Craig Rohan
PTX 7021 Effective Scientific Writing I, MD/MS students, Spring 2020
PTX 7022 Effective Scientific Writing II, MD/MS students Spring 2020

Ravi Sahu
PTX 7021 Effective Scientific Writing I, Fall 2020
PTX 7022 Effective Scientific Writing II, Course Director, 2021
PTX 7011 Thesis Development Workshop, Co-director
PTX 8407 An Overview of Animal Research

Thesis Advisory Committee
Venkata Sravya Ankatla, MS student, Graduated summer 2021
Nadeen Anabtawi, MS student, advisor, Graduated spring 2021
Sydney White, MS student, Projected graduation fall 2021
Sri Meghana Yerrapragada, MS student, Graduated summer 2021
P. Gowtham, MS student Biochemistry

Courtney Sulentic
PTX 8260 Microbiology and Immunology, Co-director, fall 2020
PTX 7300 Cellular Pharmacology & Toxicology, Spring 2021
BMS 8050 Intercellular Communication, Lecturer, Spring 2021

Thesis Advisory Committee
Sydney White, MS student, Projected graduation fall 2021
Valerie Benedict, MS student anatomy, Graduated spring 2021
Mili ben Bhakata, MS student, microbiology/immunology, Graduated fall 2020
Mia Williams Burnett, ED PhD student, current
Mili ben Bhakata, BMS PhD student, 2021-current
Soham Parikh, BMS PhD student, Graduated spring 2021
Eric Reed, BMS PhD student, current
Clayton Buckner, BMS PhD student, current
Modhi Alshammari, MS student, Projected graduation fall 2021
Rana Abdelgawad, MS student, Graduated spring 2021
Xiu Huan Yap, BMS PhD student
Hannah Shows, BMS PhD student
Rujuta Gadgil, BMS PhD student, representative
Amjed Aljaghthmi, BMS PhD student, representative, Graduated 2021
Tahir Sulehria, BMS PhD student
Angela Campo, BMS PhD student, representative, Graduated 2021

Jeffrey Travers
PTX 8000 Journal Club MD/MS, Summer 2020
PTX 7021 Effective Scientific Writing, MD/MS, Summer 2020
PTX 8005 Advanced Topics in Pharmacokinetics, Course Director, Summer 2020
PTX 8010 Journal Club MD/MS, Summer 2020

Primary Advisory/Committee member
Abdulrahman Alkawar, MS student, committee, Graduated 2020
Mariyyah Madkhali, MS student, committee, Graduated 2020
Hima Yenuga, MS student, committee, Graduated 2020
Lea Christian, MS student, advisor, Graduated 2021
Sravya Venkata Arikatia, MS student, advisor, Graduated 2021
Shweta S Bhadri, MS student, advisor, Graduated 2021
Michael Howell, MS student, MD/LA, Graduated 2020
Meghana Ginugu, MS student, committee, Graduated 2021
Vivek Gogusetti, MS student, committee, Graduated 2021
Chad Brewer, MS student, advisor, Projected graduation 2022
Cameron McGlone, MD/MS student, advisor, Graduated 2021
Robert Hoopes, MD/MS student, advisor, Graduated 2021
Ryan Gabbard, MD/MS student, advisor, Graduated 2021
Roy Chen, MD/MS student, advisor, Graduated 2021
Sabina Bashir, MD/MS student, advisor, Graduated 2021
Sharlo Bayless, MD/MS student, advisor, 2019-
Jacob Dickman, MD/MS student, advisor, 2019-
Steven Repas, MD/MS student, advisor, 2019-
Zafer Sattouf, MD/MS student, advisor, 2019-
Benjamin Schmeusser, MD/MS student, advisor, 2019-
Maansi Kulkarni, MD/MS student, advisor, 2020-
Danielle Corbin, MD/MS student, advisor, 2020-
Janet Lubov, MD/MS student, advisor, 2020-
Timothy Frommeyer, MD/MS student, advisor, 2020-
Michael Gilbert, MD/MS student, advisor, 2020-
Megan Cleary, MD/MS student, advisor, 2020-
Alexander Vollmer, MD/MS student, advisor, 2020-
Ericson Torralba, MD/MS student, advisor, 2020-
Langni Liu, BMS PhD student, advisor, Graduated 2020
Cvammen William, BMS PhD student, committee, 2020-
Benita Chin PhD student, University of Sydney external examiner 2020
Yongjie Xu
PTX 7011 Thesis Development Workshop
PTX 7021 Effective Scientific Writing
PTX 7022 Effective Scientific Writing
PTX 7002 Genome Stability and Human Disease Journal Club
BMS 9940 Introduction to Research

Primary Advisory/Committee member
Alaa Mahdi, MS student, advisor, Graduated 2020
Mashael Alyahaya, MS student, advisor, 2021-
Sankdhadip Bhadra, BMS PhD student, 2020-
Nafees Ahamad, postdoctoral
Saman Khan, postdoctoral

Undergraduate medical education [medical school]
F. Javier Alvarez-Leefmans
WrightQ, Staying Alive Module

David Cool
WrightQ, Beginning to End, Balance Control and Repair

Mauricio Di Fulvio
Pharmacokinetics and Pharmacodynamics (two x 3 hour sessions), November, 2020

Khalid Elased
WrightQ, Staying Alive Module

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

Research Trainees
Raghiv Talreja, 3rd year medical student
Shaina Ailawadi, 3rd year medical student

Jeffrey Travers
Biomedical Research Involving Humans, October 2020
Research in Pharmacology, January 2021
Pharmacokinetics and Pharmacodynamics (two x 3 hour sessions), November, 2020

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 residents, Immunology III, IV, Photosensitivity, 2020
Lecture to residents, Hillbilly Kodachromes, Immunology I, II
Continuing medical education [grand rounds, seminars]

**Craig Rohan**
Seminars at Dayton Children’s Medical Center, Wright Patterson Medical Center and monthly lectures to dermatology residents.

**Jeffrey Travers**
University of Arizona COM-Phoenix BMS Seminar Series Presentation, October 2020
University of Arizona COM-Phoenix MSTP Lecture, October 2020

Other

**Craig Rohan**
Guest on the Curbsiders-Internal Medicine podcast on atopic dermatitis.

**Courtney Sulentic**
Mentor Match Program mentor, SOT: Alicia Taylor, PhD, Early Career Toxicologist
Mentor for Women Walking West: Naazy Eman
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]

**F. Javier Alvarez-Leefmans**


**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

**Mauricio Di Fulvio**


**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.

**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). “Circadian Clock Modulating Drugs in Cancer Prevention and Treatment” Ohio Cancer Research #5020, $30,000 total costs/year, 7/1/20-6/30/22.

Kemp, M (PI). “Mapping DNA Repair and Error-Prone DNA Synthesis in Geriatric Skin”; VA Clinical Merit 1I01CX002241, ~$220,000 total costs/year, 4/1/21-3/31/25.

**Craig Rohan**

Rohan, Craig (Sub-investigator). 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. CAIN457A2324, Novartis.

Rohan, Craig (Sub-investigator). 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. ALX-101-ATOP-204, Asana BioScience, LLC.

Rohan, Craig (Sub-investigator). A randomized, double-blind, multicenter study assessing short (16 weeks) and long-term efficacy (up to 1 year), safety, and tolerability of 2 subcutaneous secukinumab dose regimens in adult patients with moderate to severe hidradenitis Suppurativa. AIN457M2301 Novartis.

Rohan, Craig (Sub-investigator). A Phase 2a/b, Randomized, Double-Blind, Placebo-Controlled Study to Investigate the Efficacy, Safety, Tolerability and Pharmacokinetics of KPL-716 in Reducing Pruritus in Subjects With Prurigo Nodularis. KPL-716-C201, Kiniksa Pharmaceuticals, Ltd.

**Ravi Sahu**


Sahu, Ravi (Co-PI with Miller, Co-I Travers, Jeffrey, Collaborators Cool, David, Chen, Yanfeng). “Translational relevance of the PAF system in combination chemotherapy mediated microvesicle particles release.” BSoM Seed Grant RIF 223301, $14,500, 07/2021-06/2022.

**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.

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.

**Pharma-sponsored studies**

Travers, JB (Polynoma, LLC 103A-301). 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. 10/01/2015 to 9/30/2021
Travers, JB (Corrona Psoriasis Registry, 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 enrolment. Approximately 200 clinical dermatology clinics in North America will be recruited to participate. Our Pharmacology Translational Unit is one of the participating sites. 07/01/2016 to 06/30/2021.

Travers, JB (Eli Lilly and Company, I1F-MC-RHCD). 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. 12/1/2016 to 02/03/2021.

Travers, JB (Eli Lilly and Company, 14V-MC-JAIW). 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. 4/20/2018 to 2/28/2022.

Travers, JB (Eli Lilly and Company 14V-MC-JAIW). 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. 01/01/2019 to 12/01/2022.

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 (Eli Lilly and Company, I6T-MC-AMAH). 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. 08/01/2019 to 12/012021.

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.

Travers, JB (Celgene Corporation, CC-10004-PPSO-003). 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. 11/01/2018 to 11/01/2021.


Travers, JB (Eli Lilly and Company, I6T-MC-AMBK). 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. 04/01/2019 to 03/01/2022.

Travers, JB (Eli Lilly and Company, WSP-07-BARI). 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. 06/01/2019 to 06/01/2022.

Travers, JB, Co-I; Korman, Neil, PI (Celgene). 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. 05/1/2018 to 09/1/2021.
Yongjie Xu


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

F. Javier Alvarez-Leefmans


Yanfang Chen

Liping Liu, Qinmao Ye, Langni Liu, Ji Chen Bihl, Yanfang Chen, Jing Liu, Qian Cheng. C6-ceramide treatment inhibits the proangiogenic activity of multiple myeloma exosomes via the miR-29b/Akt pathway. J Transl Med. 2020; 18: 298.


David Cool


Mauricio Di Fulvio


Khalid Elased


Saber Hussain


Tilly TB, Nelson MT, Chakravarthy KB, Shira EA, Debrose MC, Grabinski CM, Salisbury RL, Mattie DR, Hussain SM. In Vitro Aerosol Exposure to Nanomaterials: From Laboratory to Environmental Field Toxicity Testing. Chem. Res. in Toxicol. 2020; http://dx.doi.org/10.1021/acs.chemrestox.9b00237.

Mike Kemp


Craig Rohan


Ravi Sahu


Terry Oroszi


**Jeffrey Travers**


**Jongjie Xu**


Ahamad N, Khan S, and Xu YJ (2020) RecQ DNA helicase Rqh1 promotes Rad3ATR kinase signaling in the DNA replication checkpoint pathway of fission yeast. Mol. Cell. Biol. 40(7) e00145-20 [https://mcb.asm.org/content/40/17/e00145-20](https://mcb.asm.org/content/40/17/e00145-20).

**Books, chapters, reviews**

**Mike Kemp**


**Craig Rohan**


Ravi Sahu


Terry Oroszi


Jeffrey Travers


Published abstracts

Mike Kemp


Ravi Sahu


Courtney Sulentic


Burnett, M., Benedict, V., Sulentic, C.E.W.: Evaluation of physiologically relevant aryl hydrocarbon receptor ligand on antibody expression in a human B cell line model, Toxicologist, 2430, 2021. (virtual meeting due to COVID19)


**Jeffrey Travers**


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

**F. Javier Alvarez-Leefmans**

"Debated role of apical Na+, K⁺,2Cl⁻ cotransporter 1 in Choroid Plexus Epithelial Cell function; or, The Ins and Outs of NKCC1." 55th Lake Cumberland Biological Transport Meeting. Jamestown, KY. June 22, 2021

**Mike Kemp**

51st Annual Meeting of the Environmental Mutagenesis and Genomic Society; Virtual Meeting (Sept 2020; oral presentation, online)

University of Georgia College of Public Health Department of Environmental Health Science, Athens, Georgia (Feb 2021; online via Zoom).

**Ravi Sahu**


**Terry Oroszi**
Decision-making for Crisis Leadership, InfoSys, Webinar, India Aug. 2020

The American Terrorist, National Preparedness Summit, Dallas TX, March 2020

The American Terrorist, Toledo InfraGard, Toledo (webinar due to COVID), OH June 2020

Know Your Power. Institute of Management Accountants. Cincinnati OH. Feb. 2020


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**Courtney Sulentic**

The Community Exposome: Effects of Environmental Contamination on Health Disparities and Marginalized Populations through the Lens of a Toxicologist, Virtual Society of Toxicology Annual Meeting, Organizer and co-chair, 2021.

Navigating Your Health and Wellness Through graduate School and Early Careers Virtual Society of Toxicology Annual Meeting, Organizer and Chair, 2021.

Student presentations
Ohio Valley Society of Toxicology Student virtual meeting 3-minute thesis presentations: Mili Bhakta, Mia Burnett, and Sydney White each gave a presentation.

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**Jeffrey Travers**

University of Arizona COM-Phoenix MSTP Lecture, Phoenix, AZ. “Why you should be in skin.”, October 2020.

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**Consultantships** [sponsor activity]

**F. Javier Alvarez-Leefmans**
Ad hoc advisor for the faculty promotion, Academic Council of King Saud University, Kingdom of Saudi Arabia, 2020.

**David Cool**


**Terry Oroszi**
Gerson Lehrman Group (GLG) Council member

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

**F. Javier Alvarez-Leefmans**
Associate Editor, Frontiers in Membrane Physiology and Biophysics. Frontiers Journals.


David Cool


NIH CounterAct Study Section Member Molecular, Cellular & Developmental Neurosciences Integrated Review Group. R21 Study Section Reviewer (11/03-04/2020).

Editorial Board, Interdisciplinary Toxicology, 2014-Present

Mauricio Di Fulvio

Ad-hoc reviewer NIH-NIDDK, Diabetes, Endocrinology, and Metabolic Diseases B Sub-committee (DDK-B).
Ad-hoc reviewer NIH-DPPS, Molecular and Cellular Endocrinology Study Section-MCE.
Ad-hoc reviewer NIH-NIDDK, Special Emphasis Panel/Scientific Review Group, 2021/05, ZDK1 GRB-B (M2) 1.

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.

Terry Oroszi

DoD Homeland Defense Information Analysis Center Subject Matter Expert (S.M.E.)

Craig Rohan

Alpha Omega Alpha Medical Honor Society
US Air Force Meritorious Service Medal with Oak Leaf Cluster
Wright State University Dermatology Teacher of the Year, 2021

Ravi Sahu

Serves as an editorial board member, associate editor and reviewer for several scientific journals.

Jeffrey Travers

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

Jongjie Xu

Ad hoc reviewer for the following journals: Genes, Cancer Letters, and Cell Cycle.
Summary of Service Activities

Student advising

Yanfang Chen
Thesis Advisor/committee
Kartheek Pothana, MS student, graduated December 2020
Prashanth Reddy Penthala, MS student, Leadership Program, Graduated 2020
Venkata Sai Usha Sri Polaki, MS student, graduated July 2020
Langni Liu, BMS PhD student, graduated July 2020

David Cool
PhD Advisory Committee
Prithy Martis, BMS Rep, Graduated 2020
Soham Parikh, BMS Rep, Graduated 2021
Ben Schmitt, BMS committee, Graduated 2020
Jananie Rockwood, BMS Rep, Projected graduation 2022
Adaku Ume, BMS co-advisor, Projected graduation 2022
Phillip Walker, MD/PhD BMS committee, Projected graduation 2021
Xiu Huan Yap, BMS committee, Graduated 2021
Hannah Shows, BMS committee, Projected graduation 2022
Kristen Rehl, BMS rep, Projected graduation 2022
Christina Davidson, BMS committee, Projected graduation 2023

Thesis Advisory Committee
Venkata Sai Usha Sri Polaki, MS student, graduated July 2020
Langni Liu, BMS PhD student, graduated July 2020

Mauricio Di Fulvio
Thesis Advisory Committee
Rana Abdeljawad, MS advisor, Graduation 2021
Modhi Alshammari, MS advisor, Projected graduation fall 2021
Yaksh Rathod, MS advisor, Graduation spring 2021
Yaksh Rathod, PhD BMS advisor, 2021-2026
Charles Luu, Committee member
Abdullah Alshudukhi, PhD BMS committee member
Tahir Amin Sulehria, PhD BMS committee member

Khalid Elased
Thesis Advisory Committee
Harshal Sawant, MS student leader admin lab project, Graduated summer 2020
Yakshkumar Dilipbhrai Rathod, MS student committee member, Graduated spring 2021
Rana Abdeljawad, MS student committee member, Graduated summer 2021
Sydney White, MS student committee, Projected graduation fall 2021
Adaku Ume, MD/PhD student, committee
Christiana Draper, MD/PhD student, committee
**Saber Hussain**
Advisory Committee
Capt. Bryan Mayville, PhD student, 2020-2023
Soham Parikh, PhD student committee, 2021-current

**Mike Kemp**

Thesis Advisory Committee
Vivek Gogusetti, MS student, advisor, Graduated spring 2021
Nadeen Anabtawi, MS student, advisor, Graduated spring 2021
Meghana Ginugu, MS student, committee, Graduated spring 2021
William Cvammen, BMS PhD student, 2020-present
Alex Carpenter, PhD, postdoctoral training, 2020-present
Saman Khan, PhD, postdoctoral training. Feb 2021-present

**Terry Oroszi**
All PTX MS students and coadvisor for the MD/MS
Cameron MdGlone, MD/MS student, advisor, Graduated 2021
Robert Hoopes, MD/MS student, advisor, Graduated 2021
Ryan Gabbard, MD/MS student, advisor, Graduated 2021
Roy Chen, MD/MS student, advisor, Graduated 2021
Sabina Bashir, MD/MS student, advisor, Graduated 2021
Sharlo Bayless, MD/MS student, advisor, 2019-
Jacob Dickman, MD/MS student, advisor, 2019-
Steven Repas, MD/MS student, advisor, 2019-
Zafer Sattouf, MD/MS student, advisor, 2019-
Benjamin Schmeusser, MD/MS student, advisor, 2019-
Maansi Kulkarni, MD/MS student, advisor, 2020-
Danielle Corbin, MD/MS student, advisor, 2020-
Janet Lubov, MD/MS student, advisor, 2020-
Timothy Frommeyer, MD/MS student, advisor, 2020-
Michael Gilbert, MD/MS student, advisor, 2020-
Megan Cleary, MD/MS student, advisor, 2020-
Alexander Vollmer, MD/MS student, advisor, 2020-
Ericson Torralba, MD/MS student, advisor, 2020-

**Craig Rohan**
Multiple MD and MD/MS students, letters of recommendation for residency training.
Dermatology outpatient clinics at WSU and Dayton VAMC

**Ravi Sahu**
Thesis Advisory Committee
Venkata Sravya Anikatla, MS student, Graduated summer 2021
Nadeen Anabtawi, MS student, advisor, Graduated spring 2021
Sydney White, MS student, Projected graduation fall 2021
Sri Meghana Yerrapragada, MS student, Graduated summer 2021
P. Gowtham, MS student Biochemistry
Zaid Mohd Omar Musa Sirhan, ESW I & II
Amoolya Varma Nampally, ESW I & II
Harshitha Tummuru, ESW I & II
Apruv Kishorbhai Rana, ESW I & II

**Courtney Sulentic**
Regular lab meetings and advising.
**Thesis Advisory Committee**

Sydney White, MS student, Projected graduation fall 2021
Valerie Benedict, MS student anatomy, Graduated spring 2021
Mili ben Bhakata, MS student, microbiology/immunology, Graduated fall 2020
Mia Williams Burnett, ED PhD student, current
Mili ben Bhakata, BMS PhD student, 2021-current
Soham Parikh, BMS PhD student, Graduated spring 2021
Eric Reed, BMS PhD student, current
Clayton Buckner, BMS PhD student, current
Modhi Alshammari, MS student, Projected graduation fall 2021
Rana Abdelgawad, MS student, Graduated spring 2021
Xiu Huan Yap, BMS PhD student
Hannah Shows, BMS PhD student
Rujuta Gadgil, BMS PhD student, representative
Amjed Aljagthmi, BMS PhD student, representative, Graduated 2021
Tahir Sulehria, BMS PhD student
Angela Campo, BMS PhD student, representative, Graduated 2021

**Jeffrey Travers**

Primary Advisory/Committee member
Abdulrahman Alkawar, MS student, committee, Graduated 2020
Mariyath Madkhali, MS student, committee, Graduated 2020
Hima Yenuga, MS student, committee, Graduated 2020
Lea Christian, MS student, advisor, Graduated 2021
Sravya Venkata Anrikatia, MS student, advisor, Graduated 2021
Shweta S Bhadri, MS student, advisor, Graduated 2021
Michael Howell, MS student, MD/LA, Graduated 2020
Meghana Ginugu, MS student, committee, Graduated 2021
Vivek Gogusetti, MS student, committee, Graduated 2021
Chad Brewer, MS student, advisor, Projected graduation 2022
Cameron McGlone, MD/MS student, advisor, Graduated 2021
Robert Hoopes, MD/MS student, advisor, Graduated 2021
Ryan Gabbard, MD/MS student, advisor, Graduated 2021
Roy Chen, MD/MS student, advisor, Graduated 2021
Sabina Bashir, MD/MS student, advisor, Graduated 2021
Sharlo Bayless, MD/MS student, advisor, 2019-
Jacob Dickman, MD/MS student, advisor, 2019-
Steven Repas, MD/MS student, advisor, 2019-
Zafer Sattouf, MD/MS student, advisor, 2019-
Benjamin Schmeusser, MD/MS student, advisor, 2019-
Maansi Kulkarni, MD/MS student, advisor, 2020-
Danielle Corbin, MD/MS student, advisor, 2020-
Janet Lubov, MD/MS student, advisor, 2020-
Timothy Frommeyer, MD/MS student, advisor, 2020-
Michael Gilbert, MD/MS student, advisor, 2020-
Megan Cleary, MD/MS student, advisor, 2020-
Alexander Vollmer, MD/MS student, advisor, 2020-
Ericson Torralba, MD/MS student, advisor, 2020-
Langni Liu, BMS PhD student, advisor, Graduated 2020
Cvammen William, BMS PhD student, committee, 2020-
Benita Chin PhD student, University of Sydney external examiner 2020

**Yongjie Xu**

Primary Advisory/Committee member
Alaa Mahdi, MS student, advisor, Graduated 2020
Mashael Alyahaya, MS student, advisor, 2021-
Sankhdadip Bhadra, BMS PhD student, 2020-
Nafees Ahamad, postdoctoral
Saman Khan, postdoctoral
Thesis Committee member
William Cvammen, BMS PhD student, 2020-present
Akshay Hira, PhD student in Dr. Kadakia's lab
Rujuta G Yashodhan, PhD student in Dr. Leffak's lab
Ishita Haider, PhD student in Dr. Zhong's lab
Amanda Myers, PhD student in Dr. Long's lab
Nadeen Anabatawi, MS student in Dr. Kemp's lab
Vivek Shashank Nag Gogusetti, MS student in Dr. Kemp's lab

Lab Rotation Graduate Students
Rakshith Reddy Katta, PTX MS student, 2021
Mashael Yahya A Alyahya, PTX MS student

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

Mauricio Di Fulvio
BMS Curriculum Committee

Khalid Elased
BSOM Faculty Curriculum Committee
BSOM Faculty Promotions and Advancement Committee
Pharmacology and Toxicology Faculty Affairs and Development Committee

Mike Kemp
Pharmacology and Toxicology Education Committee, 2021-present.
Pharmacology and Toxicology Website Redesign Committee, 2020.

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

Craig Rohan
Dermatology Clinical Competence Committee

Courtney Sulentic
Chair Review Committee for Dr. Jeffrey Traver's 5-year review, 2021
Faculty Promotion and Advancement Committee, elected member, 2020-2022
Student Promotions Committee, elected member, 2017-2021
Pharmacology and Toxicology Faculty Affairs and Development Committee
Pharmacology and Toxicology Education Committee
Jeffrey Travers
WSU Executive Committee, 2015-present
Dean’s Research Chairs Committee, 2015-present
Academy of Medicine Board of Directors, 2015-present
Bylaws Committee, 2017-present
Scholarships in Medicine Basic Scient Track Committee, Chair, 2018-present
BSOM Dean Search Committee, 2020

Wright State University
F. Javier Alvarez-Leefmans
University Building and Grounds Committee
Neuroscience Advisory Board, NCBP

David Cool
BMS PhD Curriculum Committee
Parking Appeals Subcommittee
University Building and Grounds Committee

Khalid Elased
Laboratory Animal Care & Use Committee
BMS PhD Program Curriculum Committee

Mike Kemp
BMS PhD Nominating Committee, 2019-present

Khalid Elased
Laboratory Animal Care & Use Committee
BMS PhD Program Curriculum Committee

Terry Oroszi
WSU Faculty Senator
Faculty Senate Ad Hoc International Graduate Student Success Committee WSU International program
Oversight Committee (IPOC/IEAC

Ravi Sahu
Institutional IACUC and IBC Committees
Departmental Admission and Scholarship Committee

Courtney Sulentic
Women’s Peer Mentoring Group, initially supported by the NSF-funded LEADER Program at WSU
Academic Policies Committee, BMS PhD, elected member, 2019-2021
Women in Science Giving Circle member, 2016-present

Yongjie Xu
BMS PhD Student Admission Committee, 2021-2022

Wright State Physicians
Craig Rohan
Dermatology COATS/Clinical Operations Committee

Jeffrey B. Travers
Dermatology COATS/Clinical Operations Committee

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

Terry Oroszi
President, InfraGard, Dayton Alliance Chapter/FBI

National
Yanfang Chen
International Society for Extracellular Vesicles (ISV)
American Diabetes Association (ADA)
American Heart Association (AHA)

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
External Promotion Committee member for promotions, Clinical Pharmacy, Jordan University of Science and Technology
Hungarian National Research Development and Innovation Office Review Committee member: Physiology, Pathophysiology, Pharmacology, and Endocrinology grant application.
AHA High Blood Pressure Council Conference Review Committee
Delegate of WSU Boonshoft School of Medicine to the United State 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
NIH/NINDS CounterACT Program; U01/u54 Grants, ad-hoc, March 2021

Terry Oroszi
InfraGard Alliance/FBI
NYPD SHIELD

Courtney Sulentic
Society of Toxicology;
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
  Strategic Plan Priority Implementation Task Force
  Adverse Reactions Podcast development and review committee
  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
SOT Career Exploration Speed Networking, Postdoctoral Assembly, Virtual Society of Toxicology Annual Meeting 2021, Panelist

Host for Poster Tours in Immunotoxicity, Postdoctoral Assembly, Virtual Society of Toxicology Annual Meeting 2021

Diversity, Equity, Inclusion Workshop Facilitator, FUTURE Committee, Virtual Society of Toxicology Annual Meeting 2021, Facilitator

Expert Panel for Undergraduates, FUTURE Committee, Virtual Society of Toxicology Annual Meeting 2021, Panelist

The Graduate School Breakout session, Undergraduate Program, Committee on Diversity Initiatives, Virtual Society of Toxicology 2020 and 2021, Panelist

Guest Editor:
  Frontiers in Toxicology, Immunotoxicology Special Topic, “Role of the Aryl Hydrocarbon Receptor in Immune Modulation”

Grant Review Panel:
  NIEHS, R01 Gene-Environment Interactions and Disease, Special Emphasis Panel ZES1 LWJ-S (R1)

Ad-hoc reviewer for several journals

**Jeffrey Travers**

NIH Grant Review Panels
  NAIMS SBIR grant reviewer 11-2020, 3-2021
  NIAMS T32 review (ZARI YL M1) 202021, Co-chair

VA Grant Review Panels
  VA Oncology D/E Review Panel, 5-2021, Co-chair

**Mike Kemp**

Dayton VAMC Subcommittee on Research Safety, 2020-present

**Yanfang Chen**

Departmental Core for Preclinical Pharmacology, Director

**Hospital or affiliated institution** [name]
Khalid Elased
Member of Scientific Societies
American Diabetes 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)

Saber Hussain
Editorial position, Journal of Nanotoxicology, 2014-present

Mike Kemp
Manuscript Reviewer: Cancer letters, FEBS letters, Biomolecules, Nucleic Acids Research, International Journal of Molecular Sciences (5); International Journal of Radiation Biology; Cancers; Radiation Research; J Biochemical and Molecular Toxicology; Frontiers in Genetics; Photodermatology, Photoimmunology, and Photomedicine.

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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
Dermatologist and Pediatric Dermatologist at Wright State Physicians Dermatology, Dayton VA Medical Center, Wright Patterson Medical Center (Prior to 30 June 2021). Full scope clinical practice 3.5-5 days a week.

Jeffrey Travers
Dermatology clinics at Wright State Physicians and Dayton VAMC.
Honors and awards [Faculty or staff]

**Terry Oroszi**
iWoman Global Award 2020 Jury award “Woman Icon”, an international program designed to recognize women who have left an indelible mark on the society through their efforts.

**Courtney Sulentic**
Ohio Valley Society of Toxicology Student virtual meeting, Mentor for Sydney White, Best M.S. 3-minute thesis presentation student award.

Hosted events [CME, etc.]

Other information

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

**F. Javier Alvarez-Leefmans**
Writing and editing, along with Dr. Eric Delpire, Vanderbilt School of Medicine, the 5th edition of Cell Physiology Sourcebook: Essentials of Membrane Biophysics. Elsevier Academic Press, Scheduled for release 2022.

**Alvarez-Leefmans F.J.** (2021) Differences are more than just methodological. *J. Physiol.* In press

**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 Miryoung 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. Jiří 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
- Journal of the Renin-Angiotensin-Aldosterone System
- Kidney and Blood Pressure Research
- Life Sciences
- Metabolism- Clinical and Experimental
- Microbial Pathogenesis
- Molecular Psychiatry
- Nephron Physiology
- Nutrition Research
- PLoS One
- Physiological Reports
- Regulatory Peptides
- The Journal of Pathology.

Research Peer Review:


**Mike Kemp**

Two additional publications in press.

**Saber Hussain**
Participated and advised in DURIP proposal for equipment through AFOSR
Participated in DHP-DoD proposals JPC-6 and JPC-5.

Craig Rohan
Accepted IRB investigator-initiated trial investigating vitamin D analogs in combination with photodynamic therapy with aminolevulinic acid (enrollment planned in the next few months.

Submitted IRB investigator-initiated trial investigating the effects of N-acetyl cysteine on prururogenic stimuli.

Bayless S, Travers JT, Sahu RP, Rohan CA. Enhanced Outcomes of Photodynamic Therapy with Aminolevulinic Acid Through Inhibition of Immunosuppression, Review Accepted by Oncology Letters, pending publication.

Ravi Sahu
Moderator for the Medical Student Research Symposium at Wright State University.
Faculty Judge for DAGMEC Virginia C. Woods Resident Research Forum.

Courtney Sulentic
Have five manuscripts in various forms of completion.

Wrote an immunotoxicology chapter, which is currently in press for the 6th edition of Patty’s Toxicology.

Submitted a new R01.

Completed my 3rd and final year on the Society of Toxicology Council.

President for the Women in Toxicology special interest group in the Society of Toxicology.


R01 ES031925-01A1 NIEHS (PI Sulentic). “Role of the AhR and genetic differences in human antibody production” Impact score: 38; Percentile: 21 (Reviewers 1 and 2 gave fundable scores). Submitted

R01 ES033976-01 NIEHS (PI Sulentic). “Human Antibody Regulation: Role of AhR and Gene Variants” in review.

Collaborative Translational Research Grant, BSoM (PI Sulentic; co-I Walusimbi and Polenakovik). “Single cell immune profiling in splenectomized vs. splenic embolized patients: Search for biomarkers of immunocompetence.” Not funded.


Jeffrey Travers
Extramural grant review panels:
VA Oncology D/E Review Panel, 5-2021
NIH NIAMS SBIR grant reviewer 6-2020 (chair), 11-2020 (co-chair), 3-2021 (mail in).
NIH NIAMS T32 Review (ZAR1 YL M1) 2-2021 (co-chair)

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

Editorial Board:

*Inflammation & Allergy – Drug Targets*

*Clinics in Oncology* (Melanoma/Skin Cancer section)