



# **Department of/Office of Pharmacology & Toxicology**

## **Annual Report:**

**July 1, 2020 – June 30, 2021**

Jeffrey Travers, MD, PhD  
Professor and Chair

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## 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 20<sup>th</sup> anniversary of our MS program this Fall, we are currently planning a celebration scheduled for Friday October 15<sup>th</sup>. 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 20<sup>th</sup> 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).

**Service Mission.**

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!

## 2 Programs/Divisions

<b>Name of Division or Program</b>	<b>Director</b>	<b>Dates</b>
[Provide a description here of programs/divisions within the department including directors and participating faculty]		
Proteome Analysis Laboratory	David Cool, PhD	2004-present
Master's Program	Terry Oroszi, EdD	2008-present
Nanotoxicology Research	Saber Hussain, PhD	2010-present
CBRN Certificate Program	Terry Oroszi, EdD	2013-present
Clinical Trials Coordination Certificate Program	Terry Oroszi, EdD	2020-present
Preclinical Pharmacology Core	Yanfang Chen, MD, PhD	2015-present
Pharmacology Translational Unit (PTU)	Jeffrey Travers, MD, PhD	2015-present

# 3 Fully Affiliated Faculty

Name and Academic Position	Clinical Interests	Research Interests
[list fully affiliated faculty, including statement of clinical and research interests]		
F. Javier Alvarez-Leefmans, MD, PhD, Professor		Neuroscience, molecular physiology & pharmacology, clinical neurology
Yanfang Chen, MD, PhD, Professor		Cardiovascular disease, cerebrovascular complications
David Cool, PhD, Professor, Director of Proteome Laboratory		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
Mauricio Di Fulvio, PhD, Associate Professor		Diabetes
Khalid Elased, PharmD, PhD, Professor		Diabetes, cardiovascular
Saber Hussain, PhD, Professor		Nanoparticles
Mike Kemp, PhD, Assistant Professor		How human cells maintain the integrity of their genomic DNA, particularly in response to environmental genotoxins such as ultraviolet (UV) light.
Terry Oroszi, EdD, Assistant Professor Director, MS Graduate Program Director, CBRN Defense Certificate Program Co-Chair EMDP Advisory Board		Healthcare and Homeland Security (Terrorism/CBRN/Crisis Decision Making)
Craig Rohan, MD, Assistant Professor Pharm/Tox Associate Clinical Professor, Dermatology Associate Medical Director PTU Staff Physician, Dayton VA Medical Center	Translational Medicine	Clinical Trials, Wright State Pharmacology Translational Unit
Ravi Sahu, PhD, Assistant Professor		Cancer pharmacology
Courtney Sulentic, PhD, Associate Professor		Immunology

<b>Name and Academic Position</b>	<b>Clinical Interests</b>	<b>Research Interests</b>
Jeffrey Travers, MD, PhD, Professor and Chair Professor of Dermatology Staff Physician, Dayton VA Medical Center	Translational Medicine	Skin inflammation/cancer, lipid pharmacology Clinical Trials, Wright State Pharmacology Translational Unit
Yong-jie Xu, MD, PhD, Associate Professor		Genome integrity, signaling mechanism of replicator checkpoint

# 4 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 Ørnbo, 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 Dilipbhai 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 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

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  
PTH 8407 An Overview of Animal Research

#### Thesis Advisory Committee

Venkata Sravya Arikatla, 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 Aljagthmi, 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

Abdulahman 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 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-  
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  
Mashaal Alyahaya, MS student, advisor, 2021-  
Sankhadip 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, 3<sup>rd</sup> year medical student  
Shaina Ailawadi, 3<sup>rd</sup> 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

# 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]

## **F. Javier Alvarez-Leefmans**

**F. Javier Alvarez-Leefmans** (PI), "Pharmacological Control of Cerebrospinal Fluid Secretion with Bumetanide Targeting the Choroid Plexus Na<sup>+</sup>-K<sup>+</sup>-2Cl<sup>-</sup> cotransporter NKCC1: a rational medical treatment of idiopathic intracranial hypertension". Dayton Children's Hospital Foundation, Fund closed 12/31/2020. \$20,000 over two years.

## **Yanfang Chen**

**Yanfang Chen** (Co-PI), Ji Bihl, (PI), "Exosomes from MIR-Primed Endothelial Progenitor Cells for Treating Ischemic Stroke." NIH Ro1 (NHLBI, 2R01HL062996), \$1,875,000, 01/2020-11/2023.

**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**

**Di Fulvio, M.** (PI) "Role of *Slc12a5* in insulin secretion and glucose homeostasis National Institute of Diabetes, Digestive and Kidney Disease (NIDDK). R21 DK113446-01, Budget: \$ 550,000. Completed 4/30/21

## **Saber Hussain**

**Hussain, Saber.** "Biosignatures discoveries of stress-Ocular Model (6.1)". \$1M, 2019-2022.

**Hussain, Saber.** "Biophotonic based cellular commutation & signaling (6.1)". \$0.75 M, 2020-2023.

**Hussain, Saber.** "Effects of Inhaled Contaminants & Stress on Lung Surfactant Function (6.2)". \$1M, 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 1101CX002241, ~\$220,000 total costs/year, 4/1/21-3/31/25.

**Kemp, M** (Co-I, sub contract). "Circadian clock disruption: A risk factor for environmental mutagenesis"; NIH ES030113, \$45,696 total costs/year, 11/01/20-10/31/24.

### **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**, (PI) "Defining the novel mechanistic insights of the platelet-activating factor-receptor axis in the therapeutic potential of pancreatic cancer.". Elsa U. Pardee Foundation Grant, \$105,771, 08/2020-09/2021.

**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 enrollment. 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. 2/20/2018 to 2/28/2021.

**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. 4/20/2018 to 2/28/2022.

**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 12/01/2021.

**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** (Celgene Corporation, CC-10004-PSOR-022). A Phase 3, Multicenter, Randomized, Placebo-Controlled, Double-Blind Study of the Efficacy and Safety of Apremilast (CC-10004) in Subjects with Mild-to-Moderate Plaque Psoriasis. Our Pharmacology Translational Unit is one of the participating sites. 12/01/2018 to 12/01/2021.

**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**

**Xu, Yongjie** (PI). RO1-GM110132. "Signaling Mechanism of the DNA Replication Checkpoint. 2/1/2015 - 1/31/2022 with one-year extension in 2021.

**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**

**Alvarez-Leefmans F.J.** (2020) Apical NKCC1 of choroid plexus epithelial cells works in the net inward flux mode under basal conditions, maintaining intracellular Cl<sup>-</sup> and cell volume. *J Physiol.* 2020 Nov; 598(21): 4733-4736. doi: 10.1113/JP279867. Epub 2020 Sep 1. PMID: 32870510

### **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.

Jinju Wang, Shuzhen Chen, Wenfeng Zhang, **Yanfang Chen**, Ji C. Bihl. Exosomes from miRNA-126-modified endothelial progenitor cells alleviate brain injury and promote functional recovery after stroke. *CNS Neurosci Ther.* 2020 Dec; 26(12): 1255–1265.

### **David Cool**

Smith, M.B., Ho, J., Ma, L., Lee, M., Czerwinski, S.A., Glenn, T.L., **Cool, D.R.**, Gagneux, P., Stanczyk, F.Z., McGinnis, L.K., Lindheim, L.R., Longitudinal antimüllerian hormone and its correlation with pubertal milestones, *F&S Reports*, Volume 2, Issue 2, June 2021, Pages 238-244, ISSN 2666-3341, <https://doi.org/10.1016/j.xfre.2021.02.001>.

### **Mauricio Di Fulvio**

**Di Fulvio M**, Bogdani M, Velasco M, McMillen TS, Ridaura C, Kelly L, Almutairi MM, Kursan S, Sajib AA, Hiriart M, Aguilar-Bryan L., "Heterogeneous expression of CFTR in insulin-secreting  $\beta$ -cells of the normal human islet". *PLoS One.* 2020 Dec 2;15(12):e0242749. doi: 10.1371/journal.pone.0242749. eCollection 2020.PMID: 33264332

The feeding microstructure of male and female mice.

Rathod YD, **Di Fulvio M**. "The feeding microstructure of male and female mice." *PLoS One.* 2021 Feb 4;16(2):e0246569. doi: 10.1371/journal.pone.0246569. eCollection 2021.PMID: 33539467

### **Khalid Elased**

Alawi LF, Dhakal S, Emberesh SE, Sawant H, Hosawi A, Thanekar U, Grobe N, **Elased KM**. "Effects of Angiotensin II Type 1A Receptor on ACE2, Neprilysin and KIM-1 in Two Kidney One Clip (2K1C) Model of Renovascular Hypertension." *Front Pharmacol.* 2021 Jan 29;11:602985. Doi: 10.3389/fphar.2020.602985. eCollection 2020.PMID: 33708117.

### **Saber Hussain**

McMahon KM, Calvert AE, Dementieva IS, **Hussain SM**, Wilkins JT, Thaxton CS. Interparticle Molecular Exchange of Surface Chemical Components of Native High-Density Lipoproteins to Complementary Nanoparticle Scaffolds. *ACS sensors.* 2020; 5(10): 3019-3024.

Lujan H, Romer E, Salisbury R, **Hussain S**, Sayes C. Determining the Biological Mechanisms of Action for Environmental Exposures: Applying CRISPR/Cas9 to Toxicological Assessments. *Toxicological Sciences.* 2020; 175(1):5-18.

Saracino E, Maiolo L, Polese D, Semprini M, Borrachero, Conejo AI, Gasparetto J, Murtagh S, Sola M, Tomasi L, Valle F, Pazzini L, Formaggio F, Chiappalone M, **Hussain S**. A Glial-Silicon Nanowire Electrode Junction Enabling Differentiation and Noninvasive Recording of Slow Oscillations from Primary Astrocytes. *Advanced Biosystems*. 2020; 4(4):1900264.

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**

Alkawar AMM, Castellanos AJ, Carpenter MA, Hutcherson RJ, Madkhali MAO, Johnson RM, Bottomley M, **Kemp MG**. (2020). Insulin-like Growth Factor-1 Impacts p53 Target Gene Induction in UVB-irradiated Keratinocytes and Human Skin. *Photochem & Photobiology*. 96(6): 1332-1341.

Hutcherson RJ, Gabbard RD, Castellanos AJ, **Travers JB, Kemp MG**. Age and insulin-like growth factor-1 impact PCNA mono-ubiquitination in UVB-irradiated human skin. *J Biol Chem*. 2021 Mar 19;296:100570. doi: 10.1016/j.jbc.2021.100570. Epub ahead of print. PMID: 33753168; PMCID: PMC8065225.

### **Craig Rohan**

Mudroch S M, **Rohan CA**, Conger N G, et al. Sweet Syndrome in an Elderly Man with Well-Controlled HIV. *Cureus* 2020 Sep; 12(9): e10330. doi:10.7759/cureus.10330 PMID: 33052291

Schmeusser B, Borchers C, **Travers JB**, Borchers S, Trevino J, Rubin M, Donnelly H, Kellawan K, Carpenter L, Bahl S, **Rohan CA**, Muennich E, Guenther S, Hahn H, Rkein A, Darst M, Mousdicas N, Cates E, Sunar U, Bihl T. Inter- and Intra-physician variation in quantifying actinic keratosis skin photodamage. *Journal of Clinical and Investigative Dermatology* 2020 8(2):4. PMID: 33088904.

### **Ravi Sahu**

Shreepa J. Chauhan, Anita Thyagarajan, **Yanfang Chen, Jeffrey B. Travers, and Ravi P. Sahu**. Platelet-Activating Factor-Receptor Signaling Mediates Targeted Therapies-Induced Macrovesicle Particles Release in Lung Cancer Cells. *Int J Mol Sci*. 2020 Nov; 21(22): 8517.

Borchers C, Thyagarajan A, Rapp CM, **Travers JB, Sahu RP**. "Evaluation of the SARS-CoV-2 spike S protein response on PI3K agonist mediated IL-8 release. *Medical Sciences*, 2021; 9(2):30.

Chauhan SJ, Thyagarajan A, **Chen, Y, Travers JB, Sahu RP**. "Platelet-activating factor-receptor signaling mediates targeted therapy-induced microvesicle particle release in lung cancer cells. *International Journal of Molecular Sciences*, 2020; 10(1):19200.

Konger RL, **Sahu RP**, Ren L, Derr-Yellin E, Kim Y. "Evidence for a non-stochastic two-field hypothesis for persistent skin cancer risk." *Scientific Reports*, 2020;10(1):19200.

Abhilasha KV, Sumanth MS, Thyagarajan A, **Sahu RP**, Kemparaju K, Marathe GK. "Reversible cross-tolerance to platelet-activating factor signaling by bacterial toxins. *Platelets*, 2020;1-8.

### **Terry Oroszi**

Eldalal, O., Oyebanji, O., Thapa, P., **Oroszi, T.** (2020) Overview of SARS-Cov-2 outbreak and potential therapeutic strategies, *Global Journal of Health Science* Vol. 12, No. 13

**Oroszi, T.** (2020), Competency-Based Education, *Creative Education*, 11, 2467-2476. doi: 10.4236/ce.2020.1111181

**Oroszi, T.** (2020), Power in the Workplace, Finding an Alternative to the Iron Fist, *Open Journal of Leadership*, Vol. 9, No. 2, PP. 97-112

**Oroszi, T.** (2020), Disruption Innovation and Theory, *Journal of Service Science and Management*, Vol. 13, No. 4, PP. 449 – 458.

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

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

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

Eldalal OA, Mosa FES, Oyebanji OA, Mahajan AS, **Oroszi TL** (2020), The Correlation between Pharmacological Parameters of Oxycodone and Opioid Epidemic. *J Pharma Pharma Sci*: 4: 186. DOI: 10.29011/2574-7711.100086

### **Jeffrey Travers**

Langni Liu, Katherine E. Fahy, Azeezat A. Awoyemi, Pariksha Thapa, Lisa E. Kelly, Jay Chen, Ji C. Bihl, **David R. Cool, Yanfang Chen**, Christine M. Rapp, R. Michael Johnson, and **Jeffrey B. Travers** Thermal Burn Injury Generates Bioactive Microvesicles: Evidence for a Novel Transport Mechanism for the Lipid Mediator Platelet-Activating Factor That Involves Subcellular Particles and the Platelet-Activating Factor Receptor. *The Journal of Immunology* 2020 Jul 1;205(1):193-201.

Langni Liu, Azeezat A. Awoyemi, Katherine E. Fahy, Pariksha Thapa, Christina Borchers, Benita Y. Wu, Cameron L. McGlone, Benjamin Schmeusser, Zafer Sattouf, **Craig A. Rohan**, Amy R. Williams, Elizabeth E. Cates, Christina Knisely, Lisa E. Kelly, Ji C. Bihl, **David R. Cool, Ravi P. Sahu, Jinju Wang, Yanfang Chen**, Christine M. Rapp, **Michael G. Kemp**, R. Michael Johnson, **Jeffrey B. Travers**. Keratinocyte-derived microvesicle particles mediate Ultraviolet B radiation induced systemic immunosuppression. *J Clin Invest*. 2021. May 17; 131:e144963. <https://doi.org/10.1172/JCI144963>

Boettler M, Hickmann MA, **Travers JB**. Primary Cutaneous Cribriform Apocrine Carcinoma. *Am J Case Rep*. 2021 Jan 2;22:e927744. doi: 10.12659/AJCR.927744. PMID: 33386383; PMCID: PMC7784586.

Khatib J, Wargo JJ, Krishnamurthy S, **Travers JB**. Hemorrhagic Bullous Lichen Sclerosus: A Case Report. *Am J Case Rep*. 2020 Oct 7;21: e919353. doi: 10.12659/AJCR.919353. PMID: 33024070; PMCID: PMC7552941.

### **Jongjie Xu**

Ahamad N, Khan S, Mahdi ATA, and **Xu YJ**. "Checkpoint functions of RecQ helicases at perturbed DNA replication fork. *Curr. Genet.*, <http://doi.org/10.1007/s00294-020-01147-y>, 2021.

Ahamad N, Khan S, and **Xu YJ** (2020) RecQ DNA helicase Rqh1 promotes Rad3<sup>ATR</sup> 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>.

## **Books, chapters, reviews**

### **Mike Kemp**

Lubov JE, Cvammen W, and **Kemp MG**. (2021). The Impact of the Circadian Clock on Skin Physiology and Cancer Development. *Int J Mol Sci*. 22(11), 6112.

Ume AC, Pugh JM, **Kemp MG**, and Williams CR. (2020). Calcineurin inhibitor (CNI)-associated skin cancers: New insights on exploring mechanisms by which CNIs downregulate DNA repair machinery. *Photoderm Photoimmunol Photomed*. 36(6): 433-440.

### **Craig Rohan**

Kulkarni M, **Travers JB, Rohan CA**. High Estrogen States in Hereditary Angioedema: a Spectrum Clinical Reviews in *Allergy & Immunology* 17 May 2021 Vol. 13. PMID: 34075568.

Sattouf Z, Repas SJ, **Travers JB, Rohan CA**. Vitamin D and Vitamin D Analogs as Adjuncts to Field Therapy Treatments for Actinic Keratoses: Current Research and Future Approaches. *Journal of Skin Cancer* 2021 Article ID 9920558 <https://doi.org/10.1155/2021/9920558>.



### **Ravi Sahu**

Salleh S, Thyagarajan A, **Sahu RP**. "Exploiting the relevance of CA 19-9 in pancreatic cancer." *Journal of Cancer Metastasis and Treatment*, 2020;6:31. Doi: 10.20517/2394-4722.2020.70.

Thyagarajan A, Forino A, Konger RL, **Sahu RP**. "Dietary Polyphenols in Cancer Chemoprevention: Implications in Pancreatic Cancer," *Antioxidants (Basel)*, 2020;6:951.

Chauhan SJ, Thyagarajan A, **Sahu RP**. "Functional significance of miRNA-149 in lung cancer: Can it be utilized as a potential biomarker or a therapeutic target?" *Austin Journal of Medical Oncology*, 2020;7(1):id1048.

Mallipeddi H, Thyagarajan A, Sahu RP. "Implications of Withaferin-A for triple negative breast cancer chemoprevention." *Biomedicine and Pharmacotherapy*, 2021; 134:111124.

**Travers, JB, Rohan C, Sahu RP**. "New insights into the pathologic role of the platelet-activating factor system." *Frontiers of Endocrinology*, 2021;12:624132.

### **Terry Oroszi**

Oroszi, T. & Ellis, D. (2020), *The Mindset of a Terrorist*. In Norton, R. & Mauroni, A (eds), *Agroterrorism: National Defense Assessment, Strategies, and Capabilities*. United States Air Force Center for Strategic Deterrence Studies Maxwell Air Force Base, Alabama. (pp. 29-42) (ISBN|978-0-9914849-5-9).

### **Jeffrey Travers**

McCullough PJ, McCullough WP, Lehrer D, **Travers JB**, Repas SJ. Oral and Topical Vitamin D, Sunshine, and UVB Phototherapy Safely Control Psoriasis in Patients with Normal Pretreatment Serum 25-Hydroxyvitamin D Concentrations: A Literature Review and Discussion of Health Implications. *Nutrients*. 2021 Apr 29;13(5):1511. doi: 10.3390/nu13051511. PMID: 33947070; PMCID: PMC8146035.

## **Published abstracts**

### **Mike Kemp**

**Kemp MG**, Hutcherson, RJ, Alkawar, A, Castellanos AJ, Gabbard RD. Translesion Synthesis Pathway Activation in UVB-irradiated Human Skin is Impacted by Age and IGF-1 Receptor Status. *Environmental and Molecular Mutagenesis*. Sept 2020; 61: S1.

Carpenter MA and **Kemp MG**. Extracellular vesicles from UVB-irradiated keratinocytes contain cyclobutane pyrimidine dimers. *J. Invest. Dermatol.* 141(5): S88.

### **Ravi Sahu**

Borchers CE, Thyagarajan A, Rapp C, **Travers JB, Sahu RP**. "Evaluation of SARS-CoV-2 spike protein response on PI3K agonist-mediated IL-8 release." *J. Invest. Dermatol.* 141(5): S37.

### **Courtney Sulentic**

Alex-Buckner, C., Snyder, A., **Sulentic, C.E.W.**: Mapping of a highly repetitive enhancer region within the IGH gene using long-read-single molecule nanopore. *Toxicological Sciences, the Toxicologist*, **174**:2531, 2021. (virtual meeting due to COVID19)

Bhakta, M., Buckner, C., Burra, K., **Sulentic, C.E.W.**: Potential role of AhR in antibody production by human B cells. *Toxicological Sciences, the Toxicologist*, :2404, 2021. (virtual meeting due to COVID19)

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)

White, S., Freiwan, A.K., **Sulentic, C.E.W.**: AhR-mediated transcriptional regulation of the human immunoglobulin hs1.2 enhancer, *Toxicologist*, :2432, 2021. (virtual meeting due to COVID19)

### **Jeffrey Travers**

Christian LR, Borchers CE, Liu L, Rapp C, **Kemp MG, Travers JB**. Xeroderma Pigmentosum A deficiency results in increased generation of microvesicle particles in response to Ultraviolet B Radiation. *J. Invest. Dermatol.* 141(5): S88.

Arikatla VS, Mahajan AS, Thyagarajan A, Sahu R, Rapp C, **Kemp MG, Spandau D, Travers JB**. Pro-energetics creatine and nicotinamide prevent stress-induced senescence in human dermal fibroblasts. *J. Invest. Dermatol.* 141(5): S115.

Bhadri S, Thapa P, Borchers CE, Rapp, **Travers JB**. Potential involvement of microvesicle particles in the synergistic effects of Ultraviolet-B radiation and Platelet-Activating Factor receptor agonists on cytokine production. *J. Invest. Dermatol.* 141(5):S88, 2021.

Brewer C, Awoyemi AA, Rapp C, Borchers CE, **Travers JB**. Heightened levels of microvesicle particles resulting from combination of ethanol and thermal burn injury. *J. Invest. Dermatol.* 141(5): S36, 2021.

Shahid A, Huang M, Yeung S, Parsa C, Orlando R, Andresen BT, **Travers JB**, Y. Huang, Absence of Adrb2 minimally affects UV-induced immunosuppression and skin cancer development. *J. Invest. Dermatol.* 141(5): S11, 2021.

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

### **F. Javier Alvarez-Leefmans**

“Debated role of apical Na<sup>+</sup>, K<sup>+</sup>,2Cl<sup>-</sup> 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**

Lipid mediator pathway and pancreatic cancer. International Conference on Toxicology and Applied Pharmacology (TOX 2021).

Role of miR-149 in PAF-R mediated effects on the growth of lung cancer and treatment efficacy. Cancer Treatment Forum 2020, International Conference on Cancer Treatment and Prevention.

Deciphering phospholipid-based signaling mechanisms for lung cancer intervention. European Summit on Pharmacology and Toxicology, 2020.

Lipid signaling pathway in targeted therapy-mediated microvesicle particles release in lung cancer. Cell-to-Cell Metabolic Cross-Talk in Physiology and Pathology, Cells 2020.

Exploring the lipid signaling pathway and microRNA-149 in modulating the growth and cytotoxic responses of targeted therapy against lung cancer. Cell-to-Cell Metabolic Cross-Talk in Physiology and Pathology, Cells 2020.

### **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

April 28, 2020: Security Matters. Guest speaker discussing Global Crisis Leadership. The video of your show was streamed live on [thinktechhawaii.com](http://thinktechhawaii.com) and [daCast.com](http://daCast.com). Also, [youtube.com/thinktechhawaii](https://youtube.com/thinktechhawaii).

### **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.

### **Jeffrey Travers**

University of Arizona COM-Phoenix BMS Seminar Series Presentation, Phoenix, AZ. "The role of fibroblast senescence in non-melanoma skin cancer." October 2020.

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

### **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**

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

Consultant, NIH-R21 Bihl (PI), Funded, Microvesicles as a novel transmitter for UV-induced bioactive products. 2018-2020.

### **Terry Oroszi**

Gerson Lehrman Group (GLG) Council member

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

#### **F. Javier Alvarez-Leefmans**

Associate Editor, Frontiers in Membrane Physiology and Biophysics. Frontiers Journals.

Reviewer for: Frontiers in Physiology, The American Journal of Physiology-Cell Physiology, Trends in Pharmacology.

Ad hoc grant reviewer for Wings for Life Spinal Cord Research Foundation. Salzburg, Austria. 11/25/2020 to 1/12/2021.

### **David Cool**

Zappia- The Career Experts- Experts Weigh-In On Current Job Market Trends. November 30, 2020.

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.)

Joint Chief C.W.M.D. (Countering Weapons of Mass Destruction) Education Consortium, DC Washington DC  
NBC Industry Group (N.B.C.I.G.)

### **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.

# 6

## 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 Dilipbhai 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 Arikatla, 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  
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 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-  
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  
Mashaal Alyahaya, MS student, advisor, 2021-  
Sankhadip 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  
Mashaal 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 Scientist 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; Uo1/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

**Hospital or affiliated institution [name]**

**Mike Kemp**

Dayton VAMC Subcommittee on Research Safety, 2020-present

**Other**

**Yanfang Chen**

Departmental Core for Preclinical Pharmacology, Director

**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.

# 7

## 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.

# 8

## 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.

# 9

## Hosted events [CME, etc.]

# 10

## Other information

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

### **F. Javier Alvarez-Leefmans**

Writing and editing, along with Dr. Eric Delpire, Vanderbilt School of Medicine, the 5<sup>th</sup> 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  
<https://physoc.onlinelibrary.wiley.com/action/downloadSupplement?doi=10.1113%2FJP279867&file=tjp14329-sup-0002-Alvarez-Leefmans.pdf>

### **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. 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  
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:

Abstract Reviewers for The AHA Hypertension Annual Meetings (2020) New Orleans.

National Research Development and Innovation Office (Hungary): Special Emphasis Panel/Scientific Review Group Physiology, Pathophysiology, Pharmacology and Endocrinology Study Section. Budapest, Hungary.

### **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 prurogenic 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 6<sup>th</sup> edition of Patty's Toxicology.

Submitted a new R01.

Completed my 3<sup>rd</sup> and final year on the Society of Toxicology Council.

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

Anderson, S. E., **Sulentic, C. E. W.**, Kaplan, B. L. F.: Chapter 14: Immunotoxicology in Industrial Hygiene and Occupational Exposures. In: Patty's Industrial Hygiene and Toxicology (eds. Paustenbach, Farland, Klaunig, Levy and Greim) 7<sup>th</sup> edition, Wiley (**in press**).

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 Polenakovic). "Single cell immune profiling in splenectomized vs. splenic embolized patients: Search for biomarkers of immunocompetence." **Not funded**.

Anderson, S.E., Sulentic, C.E.W. Kaplan, B.L.F.: Chapter 14: Immunotoxicology in industrial hygiene and occupational exposures. In: Patty's Industrial Hygiene and Toxicology (eds. Paustenbach, Farland, Klaunig, Levy and Greim) 7<sup>th</sup> edition, Wiley (**in press**)

### **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)