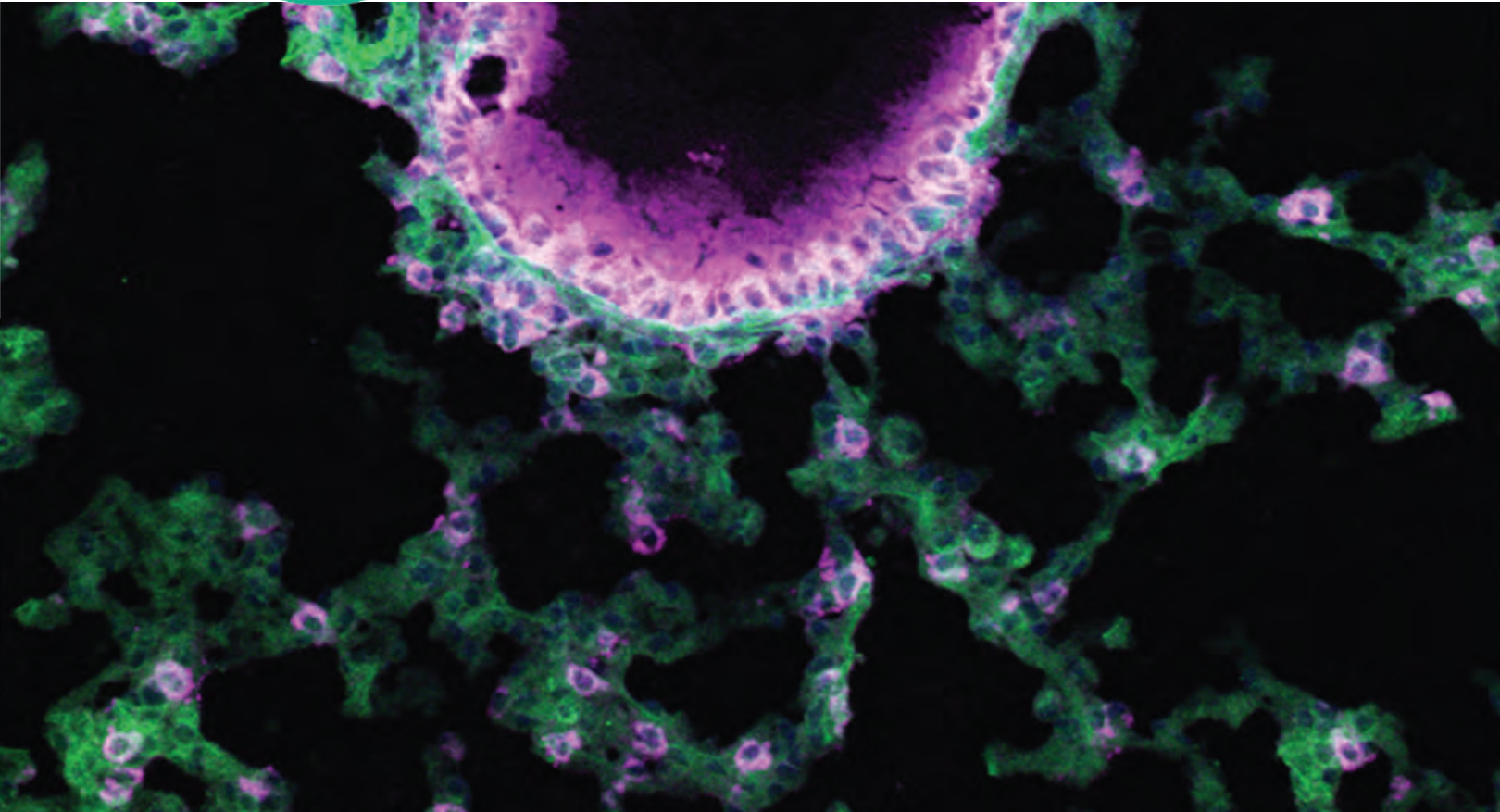
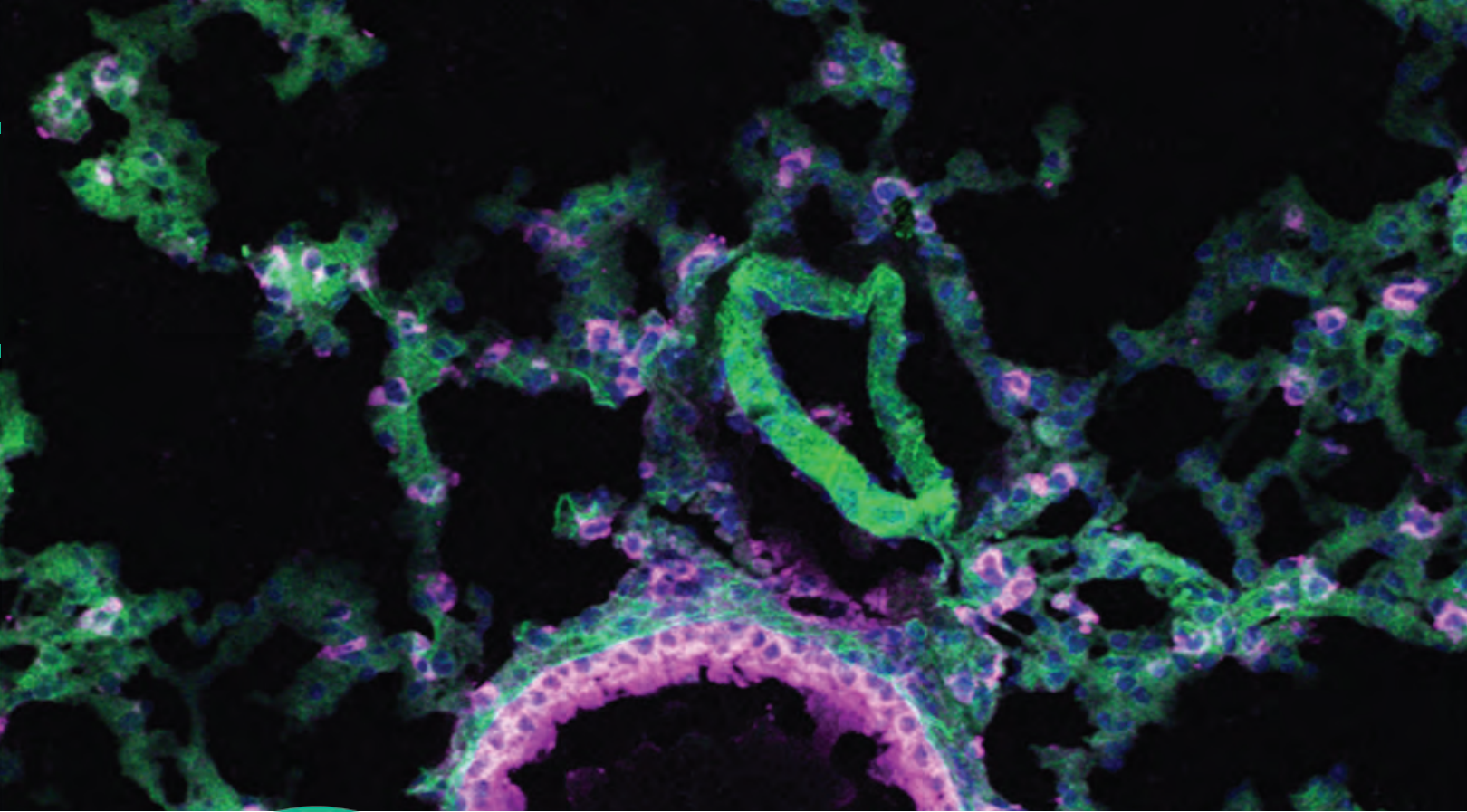




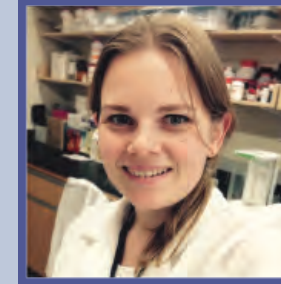
# Toxicology Graduate Program



Toxicology Graduate Students



## Alumni Testimonials



Traci Brown, PhD

The CEHS Toxicology program prepared me well for a career as a scientist. The program provided me with an excellent education in the field of toxicology as well as providing instruction on writing, teaching, and presentation skills. I was supported in exploring my research interests and grew as a scientist.

The graduate students in the program formed a community and became great friends. I was encouraged to be an active member of the Society of Toxicology where I was able to network with peers and mentors nationally, in addition to serving as Chair for the Graduate Student Leadership Committee. As I was working on my dissertation I was offered Postdoctoral Fellowships in labs at leading research institutions in the country including my first choice that I accepted at Harvard T.H. Chan School of Public Health.

Forrest Jessop, PhD



Being a part of the CEHS community has been a foundational experience in my life, both professionally and personally. I joined the CEHS as an undergraduate student, and made many lifelong friends and mentors.

I had every confidence that my experience as a graduate student in the Toxicology Program would be productive and open doors to future careers. Each member of the CEHS is exceptional, bringing both valuable expertise and support to the graduate curriculum.

My rich experience has resulted in multiple impactful publications, leadership skills, and a pre-doctoral fellowship that has conveyed me into an intramural postdoctoral fellowship at Rocky Mountain Laboratories, NIAID. I will be a lifelong advocate and supporter of my friends at the CEHS.

### Center for Environmental Health Sciences

32 Campus Drive  
280 Skaggs Building  
Missoula, MT 59812

CEHS Website:  
[umt.edu/cehs](http://umt.edu/cehs)

Graduate Program Curriculum Information:  
[cehsweb.health.umt.edu/education/graduate](http://cehsweb.health.umt.edu/education/graduate)

Email: [paulette.jones@umontana.edu](mailto:paulette.jones@umontana.edu)

# Faculty



**Dr. Andrij Holian, Director**  
*PhD from Montana State University*  
 Respiratory Toxicology  
 Nanotoxicology  
 Macrophage Biology

**Howard Beall**  
*PhD from University of Florida*  
 Medicinal Chemistry  
 Pharmacology



**Celine Beamer**  
*PhD from University of Montana*  
 Immunology  
 Environmental Exposures

**Fernando Cardozo-Pelaez**  
*PhD from University of South Florida*  
 Neurotoxicity  
 DNA Damage and Repair



**Yoon Hee Cho**  
*PhD from Seoul National University*  
 Epigenetics  
 DNA Repair Gene Polymorphism

**Zeina Jaffar**  
*PhD from University College London*  
 Immunology  
 Asthma



**Chris Migliaccio**  
*PhD from University of California*  
*PharmD from University of Montana*  
 Immunology  
 Fibrosis

**Curtis Noonan**  
*PhD from Colorado State University*  
 Biomass Smoke Exposure  
 Respiratory Health



**Sarjubhai Patel**  
*PhD from University of Montana*  
 Traumatic Brain Injury Biomarkers  
 Neurotoxicity

**Mark Pershous**  
*PhD from University of Texas*  
 Tumor Suppressor Genes  
 Carcinogenesis



**Elizabeth Putnam**  
*PhD from University of Texas*  
 Genetic Variability  
 Gene Expression Changes

**Kevan Roberts**  
*PhD from University of Manchester*  
 Immunology  
 Allergic Asthma



**Scott Wetzel**  
*PhD from University of Oregon Health and Science University*  
 Immunology  
 Environmental Exposures

# Toxicology Program

The Center for Environmental Health Sciences (CEHS) offers a highly successful Toxicology Graduate program, training students to become independent investigators.

## Program Overview

- PhD training emphasizes individual career preparation and conducting cutting-edge research
- Boasting a 100% post-graduate employment rate, our PhD graduates have been placed in advanced training in national and international laboratories, academia, and organizations, including Harvard, National Institutes of Health, Johns Hopkins, Temple University, Roche Pharmaceuticals, University of Minnesota, Rocky Mountain Laboratories and Abcam.

Students with a background in the biological, biomedical, or chemical sciences are encouraged to apply by January 15, annually.



Teaching and research assistantships are available to highly qualified applicants. Tuition fee waivers are granted to most students. Current stipends are \$14,400 for MS students and \$23,000 for PhD students.

# About CEHS



CEHS was formed in 2000, and is a leading edge biomedical research center focused on diseases associated with exposures to harmful environmental and occupational agents.

Center investigators interact with a network of researchers worldwide to enhance basic and translational research.

## Research Focus

- To determine the mechanisms by which environmental and occupational exposures contribute to the development of human diseases
- To translate that knowledge into development of biomarkers, therapeutic interventions and improved public health information

## CEHS Areas of Research Emphasis

- Central Nervous System Diseases
- Immunology
- Gene Environment Interactions
- Epigenetics
- Respiratory Toxicology
- Nanotoxicology

The University of Montana is located in Missoula, a community with a high quality of life featuring abundant recreational opportunities and is located near Glacier National Park.

The friendly, collaborative nature of the faculty emphasizes one-on-one faculty-student interactions.

Extensive research and graduate training funding allows students to conduct research at the highest levels.

# Core Facilities

CEHS supports three Research Cores: **The Fluorescence Cytometry Core, Molecular Histology and Fluorescence Imaging Core, and Inhalation and Pulmonary Physiology Core**

Each of the cores are led by experienced faculty and full time staff scientists helping investigators plan, execute and interpret experimental studies.

The cores are highly integrated providing collaborative workflows to accomplish complicated research.

The state-of-the-art core facilities and rich research environment make CEHS a unique center in Montana with the closest related centers located in Seattle, Portland and Denver.

## Core Resources



The Fluorescence Cytometry Core offers access to flow cytometers providing fluorescence analysis of tissue, systems for cell sorting, and digital microscopy for in depth examination and photography of tissues and cells.

The Molecular Histology and Fluorescence Imaging Core provides traditional and specialized histology services, including tissue processing (sectioning and staining), as well as access to confocal and transmitted light microscopes with analysis software.



The Inhalation and Pulmonary Physiology Core resources include: inhalation exposure and pulmonary function assessment equipment, a full surgical suite, animal husbandry, and an exposure chamber for studying the health effects of inhaled wood smoke.

CEHS is supported by COBRE Phase III Award from the National Institutes of Health, grant number P30GM103338.