College of Public Health and Human Sciences

Marie Harvey, DrPH, MPH
Associate Dean for Research and Graduate Programs
and Distinguished Professor of Public Health
David Dallas

College of Public Health and Human Sciences
Assistant Professor
Nutrition
milk protein digestion in term and premature infants and the effects on gut health, the microbiome and microbial metabolome

- Optimal nutrition early in life has enormous impact on health throughout life.
- Infants have limited digestion capacity and sensitive guts.
- Incomplete protein digestion can lead to microbial overgrowth, inflammation and food allergies.
- Undergraduate research opportunities: mass spectrometry analysis of proteins, peptides and metabolites, protein assays, bioinformatic and statistical analyses.
- Desirable skills: Chemistry/biology lab skills, statistics background.

Dr. David Dallas  dave.dallas@oregonstate.edu
Social Mobility Lab and PlayTech Workshop

Types of Experiences
• Volunteer
• Credit
• Funded opportunities
• Honors Thesis

Types of Data
• Behavioral observation
• Intervention
• Design and prototype of low-cost tech

Who We Work With
• Families
• Children with and without disabilities (ages birth to 5)
• Physical and Occupational therapists
• Engineers

Research Projects
• Social inclusion play group
• Sit-to-Stand Ride-on Car
• National Survey of Powered Mobility
• Definitions project
• Engineering Collaborations
  • Rasberry Pi
  • Throwing device
  • Playgrounds

Sam Logan, PhD
sam.logan@oregonstate.edu
Assistant Professor; Kinesiology

http://health.oregonstate.edu/people/logan-sam
http://health.oregonstate.edu/gobabygo
facebook.com/gobabygooregon
http://health.oregonstate.edu/students/groups/cars
Jay Kim

College of Public Health and Human Sciences
Assistant Professor
Environmental and Occupational Health
Dr Jay Kim (jay.kim@oregonstate.edu) studies the health effects of physical and biomechanics exposures from computer tablets to semi-trucks.

- **Musculoskeletal disorders** are the single largest component among all non-fatal occupational injuries and illness.

- Oregon’s work-related injury rate is \(~24\%\) higher than the national average.

- Undergraduate students may become involved in this research through bio-instrumentation to evaluate various external loading on musculoskeletal systems.

- Desirable skills: Computer programming skills (optional), quantitative data analysis skills, critical and creative thinking (important), **PASSION** on what they are doing (MUST!).
Stephanie Grutzmacher
College of Public Health and Human Sciences
Assistant Professor
Program Planning, Implementation, and Evaluation for Community-Based Nutrition Education

Stephanie Grutzmacher, PhD
stephanie.grutzmacher@oregonstate.edu
College of Veterinary Medicine

Luiz Bermudez
Department Head
Veterinary Medicine
Luiz E Bermudez, MD

Projects available:

1. Mycobacterium (NTM) infection of the lung: Bacterium interaction with host defenses. Biofilms

1. Does the Mycobacterium suppress the function of Innate Lymphocytes? Natural Killer cells and other lymphocytes.
A. Morrie Craig

College of Veterinary Medicine
Professor of Toxicology
Director of the OSU Endophyte Service Lab
Munitions

TNT

HMX

RDX

2, 4 DNT
Breakdown of munitions: an agricultural approach

Munitions in soil absorbed by grass and fed to sheep

Microbes in the sheep rumen are capable of breakdown

Phyto-Ruminal-Bioremediation

TNT
RDX
HMX
College of Pharmacy
Adriane Irwin

College of Pharmacy
Clinical Assistant Professor
Ambulatory Care
Hi, I’m Dr. Adriane Irwin. I teach classes about how the US healthcare system is structured and financed. I also maintain a practice site where I work with patients to manage their diabetes, blood pressure, and other disease.

CURRENT RESEARCH
Pharmacy practice research - - Examines how and why people access pharmacy services, the associated costs, and resulting patient outcomes.

EXAMPES:
• Showing value of pharmacy services (cost avoidance and quality)
• Understanding patient & pharmacist behaviors
• Public perceptions of the pharmacist

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Theresa Filtz

College of Pharmacy
Department Chair
Pharmaceutical Sciences
Pharmaceutical Sciences Research Cores
pharmacy.oregonstate.edu/research

Gene regulation in cancer and congenital defects for drug target discovery

Drug Discovery from plants and unusual marine and freshwater organisms to treat metabolic syndrome, cancer and infectious diseases
Pharmaceutical Sciences Research Cores

Drug dosing and delivery

Metabolomics and Biomarker discovery

Nanotechnology based drug development with multiple moieties for targeting, imaging and treatment