Division of Health Sciences
Division of Health Sciences and Honors College Matching Reception

College of Public Health & Human Sciences

Marie Harvey, DrPH, MPH
Distinguished Professor of Public Health
Associate Dean for Research & Graduate Programs
January 27, 2017
Community Based Nutrition Education

Stephanie Grutzmacher, PhD
Assistant Professor
Human Development & Family Sciences
Program Planning, Implementation, and Evaluation for Community-Based Nutrition Education

Stephanie Grutzmacher, PhD
stephanie.grutzmacher@oregonstate.edu
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College of Public Health & Human Sciences

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Cross-Cutting Themes

Interdisciplinary
GLOBAL
Health equity
IMPACTFUL
Basic & Applied
Innovative approaches
Health disparities
Lifespan
Prevention
Population health
Quantitative & Qualitative
Collaborative

College of Public Health and Human Sciences
Signature Research Areas

• Optimal health through nutrition and physical activity
• Predictors and consequences of chronic diseases and the promotion of healthy behaviors
• Healthy developmental processes and transitions across the lifespan
• Health systems reform and health policy
• Impact of environmental and occupational hazards on human health
College Research Centers

• Center for Global Health
  • Director: Chunhuei Chi, ScD, MPH

• Center for Healthy Aging Research
  • Director: Carolyn Aldwin, PhD

• Hallie E. Ford Center for Healthy Children and Families
  • Director: Richard (Rick) Settersten, Jr., PhD

• The Moore Family Center for Whole Grain Foods, Nutrition, and Preventive Health
  • Director: Emily Ho, PhD
Thank you
Families and Poverty in Oregon
Assistant Professor David W. Rothwell, PhD

Contact me to study these questions:

- What is the poverty rate in Oregon using new and improved measures?
- Which families are at greatest risk for poverty?
- What can we do to reduce poverty?
- Why has child poverty in rural communities risen so much in the past 25 years?
- How does poverty in Oregon compare to other states? How does poverty in the US compare to other countries?

Email: david.Rothwell@OregonState.edu
Twitter: @davidwrothwell
Web: http://health.oregonstate.edu/rothwell
• **Current Project:** Advancing knowledge about family leisure experiences associated with family interactions and family members’ satisfaction and well-being
  – Using innovative methodology in addition to surveys
    • **Video observations:** Coding family communication, cohesion, and conflict among parents and children engaging in a leisure activity
    • **Sociometric badges:** Analyzing face-to-face interactions, proximity to one another, and conversation dynamics

– **Undergraduate research opportunities:** Video coding, data entry, and literature searches. Interested? Please email me: Kelly.Davis@oregonstate.edu
Recent student projects
- Cross-cultural medical care
- Defibrillator knowledge and use
- Nutrition and pregnancy outcomes
- Predictors of cancer outcomes
- Integrated medicine
- Social support and diabetes control

Current research
- Injury prevention and control
- Athletic injuries
- Occupational health
- Community and ecosystem health

Viktor Bovbjerg: viktor.Bovbjerg@oregonstate.edu
College of Pharmacy
Mark Leid

Associate Dean for Research &
Professor of Pharmacology
Evolution of Pharmacotherapy

Disease
Disease Understanding
Drug Discovery

Drugs Validation
Drug Toxicity
Drug Formulation

Patient Management

Pharmacy Practice

Pharmaceutical Sciences

Crouzon Syndrome

Wild-type
Bcl-2

Drug Outcomes
Paying for Drugs

http://pharmacy.oregonstate.edu/
Pharmacy Practice-based Research

Community Rx
Ambulatory Care
Mental Health
Inpatient
(Corvallis-based)
Natural Products Drug Discovery

Anti-infective
Anti-cancer
Cardiovascular

Coibamide A
Pharmacology

Cell Signaling & Gene Expression
Microbiome

Cell signaling
Dermatology
Gene Expression/Disease
Microbiome
Jane Ishmael
Associate Professor of Pharmacology
OSU Natural Products as Probes to study Autophagy and Cell Death in cancer cells

Jane Ishmael
Pharmacology

Coibamide A discovered by Kerry McPhail in Panama

Mandelalide A discovered by Kerry McPhail in South Africa

Coibamide A induces autophagy "self eating" in glioblastoma cells as a survival response

...but the cell still dies
BJ Philmus
Associate Professor
Adventures in finding and producing drug leads from microorganisms

In silico screening methods

Anabaena sp. PCC 7120
College of Veterinary Medicine
Research Opportunities

Luiz Bermudez

Department Head

College of Vet Med
Relevant questions for today’s topic:

1. Why should I care about it?
2. What should I know about it?
3. What should I do about it?
4. What should I have for dinner tonight?
Faculty and Research Interest(s)

1. **Manoj Pastey.** Influenza virus, HIV-1, diagnose of infections, creation of new tests and assays.
2. **Daniel Rockey.** Chlamydia infections. Understanding the disease in humans and animals
3. **Mahfuz Sarker.** Clostridium infections. Sporulation. Food poison
4. **Ling Jin.** Herpes virus. Humans and animals. Koi fish model of latency
5. **Luiz Bermudez.** Tuberculosis, Johne’s Diseases, *M. avium* and *M. abscessus*. Hospital Infections. Antibiotic Resistance.
6. **Craig Ruaux.** Diarrhea and Blastocystis infection
7. **Jean Hall.** Immunonutrition: selenium as immune stimulation of ruminants. Biomarker for kidney disease in animals.
8. **Anna Jolles.** Ecology of Infectious Diseases. *M. bovis* in buffalos, viral diseases in wildlife
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8. **Anna Jolles.** Ecology of Infectious Diseases. *M. bovis* in buffalos, viral diseases in wildlife
11. **Fikru Nigussi.** Neuroscience. Electro-stimulation to study areas of the brain.

12. **Jennifer Warnock.** Tissue reconstruction. Small animal joint destruction

13. **Sarah Nemanic.** Imaging. Neurologic Diseases. Methods of teaching

14. **Kathy Magnusson.** Neuroscience, Memory. Microbiome and memory

15. **Patrick Chappell.** Neuroscience. Circadian clock

16. **Suzanne Sieger.** Imaging, teaching models

17. **Chris Cebras.** Camelids diseases, diabetes in animals.

18. **Katja Zellmer.** Joint diseases. Anti-inflammatory therapy

19. **Stacy Semavolos.** Joint Diseases

20. **Hadi Mansouri.** Spinal cord lesion and recovery

21. **Jill Parker.** Bioengineering

22. **Erica McKenzie.** Exercise physiology. Drug pharmacokinetics in horses

23. **Milan Milovancev.** Soft tissue sarcoma, mapping of extension

24. **Steve Ramsey.** System Biology, cancer, cardiovascular diseases

25. **Hong Moulton.** Antisense therapy. Genetic diseases and toxoplasmosis
26. Shay Bracha. Oncology, osteosarcoma, tumor exosomes
29. Robert Bildfell. Wildlife research
30. Christiane Lohre. Sarcomas, Feline retrovirus tumor and other tumors
31. Michael Kent. Fish infections (mycobacterial, parasitic)
32. Brian Dolan. CD8+ T cells. Comparative Immunology
35. Nicole LeBlanc. Cardiology. Therapy
36. Deidre Johns. Drug development. New antibiotics
37. Claudia Hase. Vibrio cholera, V. parahemolyticus, infection of sea species
40. Duncan Russell. Pathology of Cancer and cardiovascular conditions
41. Briana Becheler. Ecology of infectious diseases
42. Jennifer Johns. Stem cell biology, Anaplasmosis
43. Lia Danelishvili. Tuberculosis
Mycobacterial Pathogenesis research

• How do they get inside cells?
How is biofilm formed?
Molecular Pathogenesis Research on the Bacterial Pathogen
*Vibrio coralliilyticus*

Blake Ushijima, postdoctoral researcher
The Häse Lab
PI: Dr. Claudia Häse
Research Projects in the Häse Lab

• *Vibrio cholerae*
  • Study of Na⁺/K⁺ channels and their importance for survivability in different environments

• *Yersinia pestis*
  • Study of Ca⁺ channels as potential therapeutic drug targets

• *Pseudomonas aeruginosa*
  • Ion channels and their relation to motility and biofilm formation

• *Vibrio coralliilyticus*
  • Virulence factors important for infections of oysters and coral
V. corallilyticus coral infections
Shellfish larva mortality

(A) Healthy Crassostrea gigas larva (The Pacific Oyster)
(B) Deformed velum and damaged cilia
(C) Inner tissue destroyed

Richards et al. App Environ Microbiol, Submitted
V. coralliilyticus projects

- Genetic basis for virulence
  - Creating mutations
  - Phenotyping & infection experiments

- Diagnostic assays
  - Detects V. coralliilyticus in experimental and environmental samples

- Probiotics
  - Bacteria that inhibit the growth of the pathogen and protect the host
Questions?

Contact:
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Claudia Häse claudia.hase@oregonstate.edu
Dryden Hall, Room 310