UW School of Public Health

State of the School

All Hands Meeting
12 January 2012
2011: A year of success
Research productivity: Grants and contracts by UW School

* excludes ROC and I-TECH
Research productivity: Grant dollars per PI

* excludes ROC and I-TECH
### Ten largest funded SPH projects, 2011

<table>
<thead>
<tr>
<th>Title</th>
<th>PI</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resuscitation Outcomes Consortium (ROC) Data Coordination Center</td>
<td>Gerald Van Belle / Susanne May</td>
<td>$46,564,512</td>
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<tr>
<td>(2 grants)</td>
<td></td>
<td></td>
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<tr>
<td>International AIDS Education &amp; Training Center (I-TECH)</td>
<td>King Holmes / Ann Downer</td>
<td>$41,061,191</td>
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<tr>
<td>Building Sustainable Human and Institutional Capacity for HIV Care</td>
<td>King Holmes / Ann Downer</td>
<td>$20,646,946</td>
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<tr>
<td>(I-TECH)</td>
<td></td>
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<tr>
<td>Health Metrics</td>
<td>Chris Murray</td>
<td>$17,117,156</td>
</tr>
<tr>
<td>Tenofovir and Emtricitabine/Tenofovir Chemoprophylaxis to Prevent</td>
<td>Connie Celum</td>
<td>$13,315,327</td>
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<tr>
<td>HIV Acquisition</td>
<td></td>
<td></td>
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<tr>
<td>National Children's Study – PNW Center (2 grants)</td>
<td>Elaine Faustman</td>
<td>$12,602,849</td>
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<tr>
<td>Disease Control Priorities Network</td>
<td>Chris Murray</td>
<td>$4,422,099</td>
</tr>
<tr>
<td>Interventions to Decrease HIV Infectiousness in Uganda</td>
<td>Connie Celum</td>
<td>$3,900,023</td>
</tr>
<tr>
<td>National Alzheimer’s Coordinating Center</td>
<td>Walter Kukull</td>
<td>$3,293,180</td>
</tr>
<tr>
<td>UW Center for AIDS Research</td>
<td>King Holmes</td>
<td>$3,231,111</td>
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</tbody>
</table>
Highly effective leveraging of state funds

Research dollars per dollar of state funding

- Public Health *
- Medicine
- Environment
- Social Work
- Engineering

* excludes ROC and I-TECH
An increasingly popular school

Undergraduate

Master

PhD
Highly effective leveraging of state funds

Credit hours taught per $1000 of state funds
Great new faculty: Biostatistics

Ali Shojaie, PhD
Assistant Professor
Methods for estimation and inference in networks, particularly biological networks
Great new faculty: Environmental & Occupational Health

Gretchen Onstad, PhD
Acting Assistant Professor
Environmental chemistry, water quality

June Spector, MD, MPH
Assistant Professor
Occupational medicine
Musculoskeletal disorders
Great new faculty: Epidemiology

Swee May Cripe, PhD
Senior Lecturer
Reproductive, perinatal and pediatric epidemiology

Carolyn Hutter, PhD
Lecturer
Genetic epidemiology, colorectal cancer
Great new faculty: Global Health

Joseph Babigumira, PhD
Assistant Professor
Health economics, pharmaceutical outcomes

Santosh Kumar, PhD
Lecturer
Global health economics

Haidong Wang, PhD
Assistant Professor
Demography
Great new faculty: Health Services

Anirban Basu, PhD
Associate Professor
Comparative effectiveness and cost-effectiveness research

Rachel Ceballos, PhD
Assistant Professor
Psychosocial factors in cancer prevention and control

Michelle Garrison, PhD
Acting Assistant Professor
Sleep, media use, and physical activity in child and adolescent health
Great new faculty: Health Services

Christopher Johnson, PhD
Austin Ross Professor
Health care organization and quality

Linda Ko, PhD
Assistant Professor
Health communication for underserved populations using new media
Great new faculty: Health Services

India Ornelas, PhD
Acting Assistant Professor
Health disparities; social determinants of health

Leila Kozak, PhD
Assistant Professor
Complementary and alternative medicine
NIH Early Independence Awards

Nicole Basta  
(Epidemiology)  
Meningitis vaccine in Mali

Daniela Witten  
(Biostatistics)  
High-dimensional genomics data
Making it in Forbes

Science & Innovation

30 Under 30: The Youngest Disrupters And Innovators

Daniela Witten
27
Assistant Professor
University of Washington

Success Is In Daniela Witten's DNA

Gallery: 30 Under 30: Science

The daughter of two string theorists, Daniela Witten says she didn't go into the family business because she “wasn’t smart enough.” Instead she became a professor at 26, and is now developing artificial intelligence programs that decipher how genes lead to disease. Since 2000, the cost of sequencing a person’s 6 billion DNA letters has dropped from $2 billion to $5,000. The result overwhelmed Scientists. Witten uses machine-learning programs like Google’s and Facebook’s to crunch the data.
HIV Treatment as Prevention


Then in May of this year, the 052 clinical trial conducted by the HIV Prevention Trials Network (HPTN), which aimed to prevent the transmission of HIV, announced its results. The researchers planned to compare the groups until 2015, but on 28 April, an independent monitoring board that periodically reviewed the data stunned Cohen and his collaborators when it recommended that the results of the trial be made public as soon as possible. Of the 21 people who became infected, 17 were in the placebo group. The researchers concluded that the drug combination offered 96% protection against transmission.

The New England Journal of Medicine

Prevention of HIV-1 Infection with Early Antiretroviral Therapy


ABSTRACT

Antiretroviral therapy that reduces viral replication could limit the transmission of human immunodeficiency virus type 1 (HIV-1) in serodiscordant couples.

METHODS

In nine countries, we enrolled 1763 couples in which one partner was HIV-1-positive and the other was HIV-1-negative; 54% of the subjects were from Africa, and 50% of infected partners were men. HIV-1-infected subjects with CD4 counts between
Innovative occupational health research

The NORA Innovative Research Award for Effectiveness of Training and Reinforcement on Hearing Protective Devices (HPD) Use Among Construction Workers was presented to Noah Seixas, PhD, Richard Neitzel, PhD, Hendrika Melschke, PhD, William Daniell, MD, Lianne Sheppard, PhD, and Jane Edelson, MS, all with the University of Washington.
Faculty honors

Daniela Witten
David P. Byar Award
American Statistical Association

Jim Hughes, Barbara McKnight
American Association for Cancer Research
Team Science Award
Faculty honors

Noel Weiss
Alfred S. Evans Award for Excellence in Teaching and Mentoring in Epidemiology
North American Congress of Epidemiology

Dave Eaton
IOM
Faculty leadership

King Holmes
President, International Union Against Sexually Transmitted Diseases

Elaine Faustman
Secretary General, International Union for Toxicology

Judy Wasserheit
Chair-elect, Consortium of Universities for Global Health
Faculty leadership

Doug Conrad
Appointed by Governor Gregoire
to Washington State Health Benefits Exchange Board

Susan Astley
President, UW Faculty Senate
Service to our community

- CASA LATINA WORKER SAFETY TRAINING
- FETAL ALCOHOL SYNDROME DIAGNOSTIC & PREVENTION NETWORK
- COMMUNICATING EMERGENCY HEALTH ALERTS TO CLINICIANS
- CANCER PREVENTION IN LOW-WAGE WORKSITES
- REDUCING PESTICIDE EXPOSURE IN CHILDREN AND PREGNANT WOMEN
- DUWAMISH VALLEY HEALTHY COMMUNITIES PROJECT
Challenges

• Declining state higher education funding
• Stagnant Federal research funding
• Rising tuition
• Inadequate facilities
• Growing competition
  – More schools of public health
  – More on-line training
The process:

- Strategic Planning Steering Committee
- Face-to-face meetings
- On-line input
- Interviews with partners
- Retreat
- Drafts for comment
Unanimous endorsement by:

- Strategic Planning Steering Committee
- SPHEC
- Faculty Council

Statement of support from student leaders
Our Vision:
Healthy people in sustainable communities—locally, nationally, and globally

Our Mission:
The UW School of Public Health is dedicated to:

• **Education** to prepare outstanding, innovative, and diverse public health leaders and scientists

• **Research** to advance public health science and policies

• **Service** to promote the health and well-being of communities locally, nationally, and globally
Our values

• **Integrity** Adhere to the highest standards of objectivity, professional integrity, and scientific rigor.

• **Collaboration** Nurture creative, team-based, and interdisciplinary approaches to advancing scientific research and knowledge, and improving population health.

• **Impact** Evaluate the effectiveness of our efforts, assess if we have made a difference, and learn from our experiences.

• **Innovation** Create innovative approaches to educating and inspiring students and to answering important public health questions.
Our values

• **Diversity**  Embrace and build on diverse perspectives, beliefs, and cultures to promote public health.

• **Equity**  Promote equity and social justice in defining and addressing health and health care.

• **Excellence**  Recognize our school-wide strengths and the contributions of our faculty, staff, and students.

• **Stewardship**  Practice careful stewardship of the trust and resources invested in us.

• **Courage**  Bring courage, passion, and perseverance to advance public health principles in policy discourse.
Strengthening our core
Strengthening our core

• Strengthen our teaching
  ✓ MPH curriculum review
  ✓ New director of student services
  ✓ Expanded undergraduate program
  ✓ Other educational innovations (Global Health minor, Implementation Science PhD)
  ✓ Interprofessional health sciences education
Strengthening our core

• Strengthen our research
  ✓ ICR recovery from subcontracts
  ✓ Nutrition and PH Genetics schoolwide

• Strengthen community collaborations
  ✓ Plans to enhance student practicum opportunities
Strengthening our core

• Globalize the school
  ✓ Global Health undergraduate minor
  ✓ Global Health initiatives
  ✓ Global Health certificate programs

• Improve our diversity
  ✓ Forming standing committee to address the four Cs (climate, curriculum, composition, conduits)
Strengthening our core

• Enhance our school community
  ✓ Hired communications director
  ✓ NewsCatcher
  ✓ Improved “life cycle” events
  ✓ Enhanced student space

• Promote the school
  ✓ Established active advancement program
  ✓ Launched a new Dean’s Council
  ✓ Enhanced web presence
  ✓ Communications materials
Emerging public health challenges
Emerging public health challenges

- Global environmental change
- Genomics
- Obesity, food, physical activity
- Health policy
- Implementation science
- Social determinants of health
Global environmental change

- Major, multi-faceted public health challenge
- Strong student interest
- Strong UW resources (e.g. College of Environment)
- Draws on multiple SPH strengths (EOHS, infectious disease epi, biostatistical modeling)
- Diverse potential funding sources
- Strong donor interest
Genomics

• Rapidly emerging, high-impact science
• Strong UW foundation (IPHG, Medical Genetics, Genome Sciences)
• Draws on SPH departments (Biostatistics, Epidemiology, EOHS)
• Potential private funding
Obesity, food, physical activity

- Major, multi-faceted public health challenge
- Enormous student interest
- Strong UW partners
- Existing Nutrition program
- Draws on multiple SPH departments
- Opportunities for community engagement and equity considerations
- Diverse funding sources
Health policy

• Fast-moving, highly relevant arena
• Need for expertise in the region
• Growing strength in Health Services, including existing Health Policy Center initiative
• Multiple partners (e.g. Group Health, WSHA, health departments)
• History of SPH engagement and credibility
• Funding for comparative effectiveness research
Implementation science

- Innovative, needed approach to maximizing impact
- Unique capabilities at UW and in Seattle
- Nascent training program in DGH
Social determinants of health

- Reflects growing data on origins of health and disease
- Draws on many SPH strengths (research methodology, rural and urban health, community-based research)
- Strong student interest
- Opportunities for community engagement and equity considerations
- Multiple partners (e.g. School of Social Work, Evans School)
Next steps

Define implementation milestones and metrics

Meeting emerging challenges:

• Launch faculty recruitment campaign
• Pilot project funding

Strengthening our core:

• Form Diversity Committee
• Complete the MPH review
• Redoubled advancement efforts
• ↑ community engagement through student practicums
A highly innovative job ad

The University of Washington School of Public Health recently completed its 2012-2020 Strategic Plan, which commits to strengthening the School’s core strengths, while investing in emerging public health challenges. Six emerging challenges were identified. These are public health priorities, build on existing assets at the University, and offer the potential for major impact through our research, teaching, and service. They are:

A. Global Environmental Change and Human Health
B. Genomics and Public Health
C. Obesity, Food, Physical Activity, and Health
D. Health Policy and Health Systems
E. Public Health Implementation Science
F. Social Determinants of Health

We believe that a wide range of disciplines may be well-positioned to address these issues, from biomedical to physical sciences. Accordingly, applicants from a range of disciplines are welcome, and positions may be based in any of the School’s five departments. Joint appointments, including appointments in other units of the University, are likely. Applicants at the ranks of Assistant Professor, Associate Professor, and Professor will be considered.
Questions? Comments?
Summary

• A thriving, successful institution
• With a broad vision, an enduring mission, and a grounding in values
• Committed to strengthening our core assets
• Poised to take on emerging public health challenges
• In ways that include the entire School community
Our Vision:
Healthy people in sustainable communities—locally, nationally, and globally
Thank you!