

WSU S HSC Grants and Contracts: Expenditures FY 2009-2010 ~ \$13M (includes, research, training and outreach)

Centers and Institutes

- WSU Extension/AHEC = 1.5 M
- WSU S/ Human Sleep Studies/WIMHRT/Other = 4.1
- **Total = 5.6 M**

Academic Colleges and Units

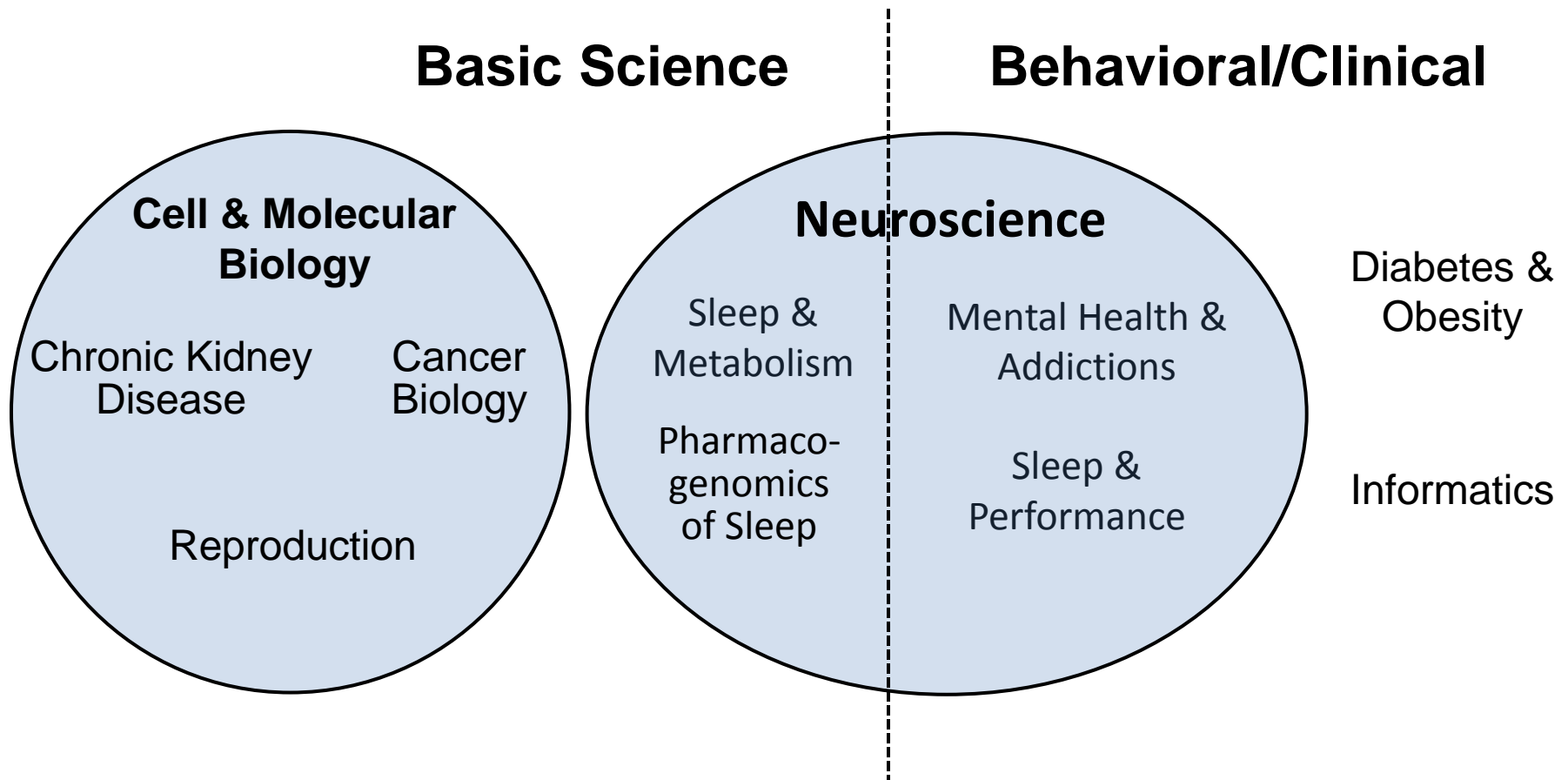
- Spokane Nursing = 4.7 M
- Spokane Pharmacy = 1.0
- *Spokane WWAMI/Mol. Bioscience = .4 M
- *Spokane WWAMI/Vet Med = 1.3M
- * = basic bioscience
- **Total = 7.4 M**

WSU S Funded Research Foci (examples, not exhaustive)

- Behavioral Clinical (~8M)
 - Env./Public Health
 - (Butterfield)
 - Addictions/Clinical/Rural (Roll)
 - Mental Health/Clinical (Roll, Dyck, Short)
 - Child/Developmental/At Risk (Blodgett)
 - Obesity (Bindler)
 - Aging (Corbett, Setter)
 - Health Informatics (Daratha)
 - Occupational/Sleep Studies (Belenky, Van Dongen,
- Basic Science (~2M)
 - Neuroscience and Neurochemistry of Sleep (Krueger, Szentimai, Kappas, Wisor, et al)
 - Cancer and aging molecular biology (Chai)
 - Reproductive biology (Roberts)
 - Molecular mechanisms of cardiovascular disease (Marsh)
 - Biomed Clinical (e.g. Diabetes/CHD (Wysham, Weeks, White)

Academic Health Science Center

A Framework for Research Growth



Pharmacy Research Foci Current and Future

- Currently, the strongest areas in Pullman surround **cancer research** where Dr. Gary Meadows and colleagues are investigating various biochemical and immunological mechanisms associated with cancer growth, metastasis, treatment, drug design, and drug delivery.
- According to Dean Pollack, the pharmaceutical science research portfolio will look somewhat different when the college consolidates in Spokane. While some of the current areas no doubt will continue, the Dean plans on developing the general area of **quantitative systems pharmacology** (a new disciplinary area that draws upon biochemical pharmacology, pharmacokinetics/pharmacodynamics, systems biology, and biomathematics) as an area of excellence. This will, interface with a variety of disease-state or other focus areas: cancer, neurosciences (pain, sleep, mental health, drug abuse, neurodegenerative disorders...all the things that currently are going on in Spokane), metabolic disorders, and probably infectious disease.
- The college also intends to develop a **strong translational research emphasis** to allow pharmacotherapy to interact much more closely with pharmaceutical sciences in research and graduate education.