NATHAN SHOCK CENTERS OF EXCELLENCE IN THE BASIC BIOLOGY OF AGING

Resources Available through the University of Washington Nathan Shock Center

Proteomics Core Resources

http://www.uwaging.org/pages/show/id/575

- Support with design and execution of experiments using proteomics to ask aging-related questions
- Sample preparation for proteomics
- Targeted and discovery proteomics data collection
- Measurements of peptide abundance and half-life by mass spectrometry
- Software tools and support for the analysis of proteomics data

Contact: Michael MacCoss – maccoss@uw.edu

Metabolomics Core Resources

http://www.uwaging.org/pages/show/id/572

- Support with design and execution of experiments using metabolomic profiling to ask aging–related questions
- Sample preparation and metabolomic profiling
- Support with statistical analysis of metabolomic studies of aging
- Network analysis of metabolomic profiles in aging-related studies

Contacts: Daniel Promislow – promislo@uw.edu, Michael MacCoss – maccoss@uw.edu

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Invertebrate Longevity & Healthspan Core Resources

http://www.uwaging.org/shock-center/cores/invertebratelongevityandhealthspancore

- Support for design and execution of aging –related projects using budding yeast, *C. elegans*, and *Drosophila*
- Lifespan and healthspan analysis in budding yeast, including replicative lifespan, chronological lifespan, stress resistance, and growth rate
- Lifespan and healthspan analysis in *C. elegans*
- Development and application of microfluidic solutions to invertebrate aging studies, including assistance with establishing microfluidic systems for aging-related studies externally

Contact: Matt Kaeberlein – kaeber@uw.edu

Research Development Core Resources

http://www.uwaging.org/shock-center/pilot-award

- Provides support for pilot projects in the biology of aging that draw upon our Center's Core Service Resources. Applications are due in February of each year and are open to scientists nationwide; however, preference is given to junior faculty applicants.

Contact: Peter Rabinovitch – petersr@uw.edu

Program Enrichment Core Resources

http://www.uwaging.org/speakers

- Support for seminars, courses, symposia and workshops
- Statistical consulting for experimental design and analysis
- Community outreach and collaboration with other Nathan Shock Centers
- Administrative support

Contact: Peter Rabinovitch – petersr@uw.edu, Matt Kaeberlein – kaeber@uw.edu