

SYLVIA ADAMS OLIVER

Washington State University Spokane
PO Box 1495, Spokane WA 99210
509-358-7635, olivers@wsu.edu

EDUCATION:

- 8/78** M.S. Animal Sciences (Reproductive Physiology), Washington State University, Pullman, Washington.
11/93 Ph.D., Genetics and Cell Biology, Washington State University, Pullman, Washington.

FACULTY APPOINTMENTS:

- 2007-present** Director of Health Science Laboratories and Education Outreach, Office of Research, WSU Spokane
1998-2007 Assistant Director, Health Research and Education Center, WSU Spokane
1997-present Adjunct Faculty, College of Sciences, WSU
1990-1998 Director of Laboratory Operations and Research Coordinator, HREC, WSU Spokane

PROFESSIONAL POSITIONS:

- 2010-present** Affiliate Director, Project Lead The Way Biomedical Sciences
2003-present Consultant, Program development and grant writing.
1999-2010 Board of Directors; Spokane Math, Engineering Science Achievement (MESA) Program
1995-present Director, WSU Spokane CityLab Science Enrichment Teaching and Learning Program
1994-2002 Founder, Executive VP and Research Scientist, Bio~OriGyn LLC, Spokane, WA

AWARDS AND HONORS:

- Outstanding Woman Leader, Women's Leadership Conference of the Inland Northwest. April 2007.
- WSU Presidential Nominated Speaker, WSU Innovators Lecture Series, 2007.
- Woman of Distinction Award, 2000, Girl Scouts Inland Empire Council, Spokane, WA
- YWCA Spokane Woman of the Year Achievement Award, Professional Category, November, 1999
- Faculty Excellence Award for Teaching, WSU Spokane, 1998
- Harriet B. Rigas Award, Outstanding Woman in Graduate Studies (Doctoral Candidate), Association of Faculty Women, WSU, 1993

CURRENT PROGRAM SUPPORT:

- Private funding (Rotary Clubs, Agilent Technologies, Na-ha-shnee Summer Nursing Institute; Spokane WA). *WSU Spokane CityLab Programs*, Ongoing support.

PREVIOUS RESEARCH AND PROGRAM SUPPORT(WSU, since 2000):

- National Science Foundation. Advanced Technology Education Program. *Biotechnology Education Infusion Model*. Principal Investigator. \$900,000. 06/15/06-05/31/10
- Washington State OSPI Non-Traditional Fields Competitive Grant. *Health Careers Afterschool Science and Research Program for Middle School Girls*. . PI. \$29,000, 02/01/09-08/31/09
- Group Health Community Foundation. *Full Court Press: Creating Health Champions*. P I. \$29,000. 03/01/06 – 07/31/07.
- Lance Armstrong Foundation. *A Pediatric Oncology Outreach Education Program*. Primary grant writer and Program Coordinator. \$38,500. 07/01/05-06/30/07
- Health Resources and Services Administration. *Upper Primary/Middle School Science/Health Career Camps*. PI. \$40,578. 03/01/05-09/30/06

- Department of Education 21st Century Community Learning Centers Grant awarded to Spokane School District 81, Subcontract to *WSU Spokane CityLab After-School Science Camps for Elementary School Students*; \$90,000 (total grant=\$5.0M); Subcontract Project Director. 9/01-04/05
- Eisenhower Mathematics and Science Act, Washington State Office of the Superintendent of Public Instruction, *Teaching and Counseling in Career Pathways*, Co-PI, \$59,000. 01/02-08/03
- National Science Foundation, *Afterschool and Summer Science Camps for Young Women*, Project # 0086440, Principal Investigator, \$87,822. 01/01-08/02
- Department of Education 21st Century Community Learning Centers Grant awarded to Spokane School District 81, Subcontract to *WSU Spokane CityLab After-School Science Camps for Middle School Students*; \$150,000 (total grant=\$2.1M); Subcontract Project Director. 09/99-08/02
- Eisenhower Mathematics and Science Act, Office of the Superintendent of Public Instruction, *Implementing Inquiry and Assessment Strategies in the Classroom*, Co-PI, \$59,000. 01/00-08/01
- Environmental Protection Agency, *WSU Spokane CityLab After-School Environmental Science Camps*; Principal Investigator. \$11,500. 09/99-08/00

INDUSTRIAL RESEARCH SUPPORT (Bio~OriGyn):

- Spokane Intercollegiate Research and Technology Institute, Grant Awarded to Bio~OriGyn LLC. *Prototype and Market Assessment of an Improved Storage Medium for Human Platelets*. Principal Investigator. Total Costs: \$57,500. 06/01-09/01
- Washington Technology Center, Grant awarded to Bio~OriGyn LLC. *Development of an Improved Medium for Human Platelet Storage*. Principal Investigator. Total Costs: \$33,615. 05/01-06/02
- Spokane Intercollegiate Research and Technology Institute, Grant awarded to ART, Inc. *A Novel Sperm Freezing Product*, Co-PI with J.E. Ellington. Direct Costs: \$141,000. 12/95-06/96
- Advanced Reproduction Technologies, Inc., Private Industry Contract. *Use of P2 to decrease post-thaw trauma in cells*. Co-PI with J.E.Ellington. Direct Costs: \$35,000. 01/95-04/95
- Advanced Reproduction Technologies, Inc., Private Industry Contract. *Novel method to separate out motile sperm*. Co- PI with JE Ellington. Direct Costs: \$100,000. 01/95-04/95

PATENTS:

- **Oliver S.** and Ellington J. US Patent #6,593,138. Cryopreserving somatic cells with an arabinogalactan containing cryopreservation medium. (7/15/03).
- Ellington J. and **Oliver S.** US Patent #6,593,309. Methods and compositions to improve germ cell and embryo survival and function (7/15/03)
- Ellington J and **Oliver S.** Australian Patent #723,170. Methods and compositions to improve germ cell and embryo survival and function. (01/09/01)
- Ellington J. and **Oliver S.** US Patent 6,171,778. Use of arabinogalactan in a sperm wash product. (01/09/01)
- Ellington J. and **Oliver S.** US Patent #6,140,121. Methods and compositions to improve germ cell and embryo survival and function. (10/31/00)
- **Oliver S.** and Ellington J. US Patent #5,897,987. Use of arabinogalactan in cell cryopreservation medium. (04/27/99)
- Ellington J. and **Oliver S.** US Patent #5,879,877. Use of arabinogalactan in a sperm wash product. (03/09/99)

PROFESSIONAL TALKS AND WORKSHOPS (2007-present):

- *Project Lead The Way: A Biomedical Science Program for All Students*. PLTW Counselor Conference, Seattle, WA. Dec. 2010.
- *Project Lead The Way. A Biomedical Science Program for All Students*. PLTW Regional Informational Conference. Nov. 2010.

- Building 21st Century Skills through Inquiry. Central Valley SD Middle School Curriculum Adoption Committee, Spokane Valley, WA., Sept. 2010.
- Pathways to Storytelling. Gonzaga University Spokane Intercollegiate Research Conference, Spokane, WA. April 2010.
- *Creating a Foundation in Math and Science for All Students*. Invited talk. Spokane Rotary Club. Feb 2010.
- *GMO's in Your Food*. Conference workshop. Teachers of Teachers of Science regional conference, May 2009, Spokane, WA.
- *Environmental afterschool program for middle school students*. Conference workshop. Teachers of Teachers of Science regional conference, May 2009, Spokane, WA.
- *Biotechnology in Your School*. Conference workshop. Advanced Technological Education national conference, October 2008, Washington DC.
- *Creating Community Collaborations*. Invited talk. Regional Grant Writing Workshop sponsored through Washington State University and Gonzaga University. September 2008.
- *Biotechnology in Your School*. Conference workshop. National Science Teachers Association National Conference, March 2008, Boston, MA.
- *Creating a Foundation of Science and Math for All Students*. Presentation to the Washington State University Board of Trustees. October 2007.
- *Biotechnology in Your School*. Conference workshop. Washington Science Teachers Association Annual Conference. October 2007. Tacoma, WA.
- *Effective Strategies for Writing NSF Grants*. Luncheon Talk, Regional Grant Writing Workshop sponsored through Washington State University and Spokane Community College. June 2007.
- *Biotechnology Education Infusion Program*. Invited talk. Washington State Life Science Industry Education Council. May 2007.
- *High Growth Careers: Biotechnology/NSF Grant*, “Community Colleges Connections”, a 15-minute informational television program about the Community Colleges of Spokane, its programs, services and special initiatives. April 2007.
- *Opening New Doors: CityLab Builds Math and Science Literacy Among Underserved Children*. WSU Innovators Lecture Series. March 2007.
- *SPARK P.E. – An inclusive physical activity program for all children*. WSU 2007 All Extension Conference. March 2007.
- *Effective Strategies for Writing NSF Grants*. Luncheon Talk. Regional NSF Grant Workshop sponsored through Washington State University. March 2007.
- *Breast Cancer Updates*. *Science on Tap* lecture series coordinated through the Northwest Association of Biomedical Research. Feb. 2007.

PROFESSIONAL MEMBERSHIPS

- Association for Supervision and Curriculum Development
- Washington Science Teachers' Association
- National Science Teachers' Association
- Association of University Women
- Association of Faculty Women, Washington State University