

SYLVIA ADAMS OLIVER

Washington State University Spokane
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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:** PLTW Biomedical Science Affiliate Director
2009-2010: Co-Chair, Board of Directors, Spokane MESA Program
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

TEACHING EXPERIENCE (since 2000)

- 1994-present** : Presentation of biotechnology workshops and summer science camps for middle and high school students.
1994-present: Presentation of professional development workshops related to science education pedagogy and national standards for middle and high school teachers.
2006: ExSci 589, Research Techniques, WSU Spokane Exercise Physiology Program.
2003-2004: Presentation of selected lectures and labs for *Understanding New Developments in Biotechnology*, a professional development workshop, Spokane Community College Biotechnology Academy.
2002-2007: Presentation of special lecture on sex determination. Spokane Falls Community College,
2002: Presentation of selected lectures for P/T 572, Fundamentals of Oncology, Washington State University, College of Pharma.
1997-2003: Presentation of seminars on breast disorders, University of Washington Physicians Assistant Program.

CURRENT PROGRAM SUPPORT:

- Private funding (Rotary Clubs, Tony Oertling Scholarship Fun, 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).
- **Oliver S.** and Ellington J. US Patent #5,897,987. Use of arabinogalactan in cell cryopreservation medium. (04/27/99)
- **Plus 5 additional related patents**