

Joseph A. Ross
Curriculum Vitae
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Objectives

Pursue graduate studies in molecular biology and genetics to address medically-relevant questions, train in current principles and methodologies in scientific research, develop other skills necessary for future success such as scientific communication. Earn doctoral degree, hold post-doctoral positions, and become faculty member at a medical school or regional cancer center in order to conduct further medical research and mentor future scientists.

Qualifications

- BA in Biochemistry, magna cum laude and with Chemistry Department Honors
- 3 years laboratory research experience in biochemistry, molecular biology, bioinformatics
- Diverse and fundamental grounding in lab techniques and methods of data analysis
- Highly motivated and independent
- Good time-management and organizational skills; strong interpersonal skills

Technical Skills

Lab Techniques

cDNA library screen (PCR or degenerate probe-based approach), automated fluorescent DNA sequencing, Southern and Western blots, PCR (specific, degenerate), primer design, autoradiography, bacterial (*E. coli*) and yeast (*S. cerevisiae*) manipulation, agarose gel electrophoresis, SDS-PAGE, sequencing gel, P³² use, mapping gels, restriction, ligation, transformation, subcloning, BAC preparation, plasmid preparation, tissue culture, hemacytometry, spectrophotometric β -galactosidase reporter gene assays

Instrumentation/Equipment

ABI 3700 Automated Fluorescent DNA Sequencer, Cytoscape Influx Flow Cytometer/Sorter, Autogen Automated BAC/Plasmid Isolation Robot, NMR, UV/VIS Spectrophotometer, Microscopy, Autoclave, Centrifuge

Computer

Platforms and Systems: Macintosh (including OS X), Unix, Windows
Languages: Basic Perl programming, HTML
Applications: Microsoft Office suite, Mathematica, GCG, Framealign, cross_match, ClustalW, Se-AL, BLAST, Logoaid, Photoshop, Illustrator, PageMaker, MacSpartan

Professional Background

Education

Degrees: Bachelor of Arts in Biochemistry, with Departmental Honors and *magna cum laude*, University of Oregon, June 2001.
GPA: 3.92 (Cumulative), 3.91 (Major)
Courses: General Chemistry, Organic Chemistry, Biochemistry, Physical Chemistry, Biology, Genetics, Differential Equations, Physics, Research Instrumentation: NMR, German, Scientific Writing, Advanced Spreadsheet Analysis

Affiliations and Activities

- Orthopedics Ward Volunteer at Sacred Heart Hospital (April 1999—June 2000)
- Mortar Board National Honor Society (1998—2000, Communications Committee Member and Senior Advisor)
- Golden Key National Honor Society (1999—2000, Webmaster)
- Presidential Student Scholars Association (1996—2000, Technical Committee Co-Chair)
- Alpha Phi Omega National Service Fraternity (1996—2000, President, National Convention Voting Delegate, Public Relations Co-Chair, Secretary, Sergeant-at-Arms)

Standardized Tests

GRE General: Oct. 2001, Writing: 620 (88%), Quantitative: 720 (78%), Analytical: 790 (97%)
GRE Subject (Biochemistry, Molecular and Cell Biology): Nov. 2001, Score: 660 (87%)

Languages

German (Reading, Writing, Speaking proficiency, 2 years of college education)
Latin (Basic Reading proficiency, 3 years of high school education)

Honors and Awards

Graduation with Chemistry Department Honors (2000), *magna cum laude* (2000), Howard Hughes Medical Institute Summer Undergraduate Research Fellow (1999), Albany General Hospital Auxiliary Scholarship (1999), University of Oregon Centurion Awards for Leadership and Service (1999 and 2000), Dean's List (10 terms 1997—2000), Sons of the American Revolution State of Oregon Eagle Scout (1996), University of Oregon Alumni Association (1996), Presidential Scholarship (1996—2000), Eagle Scout, Vigil Honor Order of the Arrow

Research Experience

“Mouse olfactory epithelium cDNA library screen.” Conducted as a research technician in the laboratory of Dr. Barbara J. Trask at the Fred Hutchinson Cancer Research Center.
8 January 2000 — Present.

Responsibilities: conduct cDNA library screen and other tangential projects including flow cytometry and bioinformatic analyses, data entry and tracking, media preparation and ordering, analyze data and present reports, read current literature, coordinate laboratory chemical safety, maintain and implement new laboratory organization efforts, provide laboratory networking and computer support and graphic design

“R&D, QA/QC of tissue culture additives for stabilization of transient transfection.” Conducted as a temporary employee representing LabTemps at GeneSpan, Inc.
18 October 2000 — 5 January 2001.

Responsibilities: high-volume (1000+ sample) tissue culture and analysis, follow SOPs and maintain corporate laboratory notebook, media preparation

“Interactions of the TATA-Binding Protein and DNA during transcription initiation.” Conducted as an undergraduate researcher in the laboratory of Dr. Diane K. Hawley in the Institute of Molecular Biology at the University of Oregon.
March 1999 — June 2000.

Responsibilities: conduct independent research project, read background literature, experimental design, data analysis and presentation, media preparation

Other Professional Experience

- Wedding Photographer, RARE Photography, Albany OR, 1995-2000.
- Laboratory Assistant, Biology Macintosh Lab, University of Oregon, Eugene OR, 1996-1999.

Professional Training

- Training on Cytopeia Influx Flow Cytometer (Dr. Ger van den Engh, Cytopeia, October 2001)

- Ethical Issues in Publication (Dr. Jeffrey Drazen, Editor-in-Chief, *NEJM*, September 2001)
- Flow Cytometry Course (Dr. Doug Swarzendruber, Pepperdine, August 2001)
- Human Tissue Research: Practices and Pitfalls (May 2001)
- Laboratory Ergonomics (Spring 2001)
- Bloodborne Pathogens Training (February 2001)

Teaching Experience

- Lead and Develop Seminars on Parliamentary Procedure, Alpha Phi Omega, 1998.
- Job Shadow with High-School student, Fred Hutchinson Cancer Research Center, 2001.

Publications

Young, J.M., Friedman, C., Williams, E.M., Ross, J.A., Tonnes-Priddy, L. & Trask, B.J. "The mouse and human olfactory receptor gene families undergo different evolutionary processes." (2002). *Human Molecular Genetics*. In Press.

Posters and Presentations

"The human and mouse olfactory receptor gene families are shaped by different evolutionary processes." Janet M. Young, Cynthia Friedman, Lori Tonnes-Priddy, Joseph Ross, Robert P. Lane and Barbara J. Trask. Poster presented by J.M.Y. at Cold Spring Harbor Genome Sequencing and Biology Conference (2001).

"Transcription initiation: DNA-TATA binding protein interactions." Joseph A. Ross and Diane K. Hawley. Focus On Undergraduate Research Poster Session, University of Oregon (2000).

"Transcription initiation: DNA-TATA binding protein (TBP) interactions." Howard Hughes Medical Institute Undergraduate Summer Research Symposium, University of Oregon (1999).

"Transcription initiation: DNA-TBP interactions." Joseph A. Ross and Diane K. Hawley. Focus On Undergraduate Research Poster Session, University of Oregon (1999).