

CURRICULUM VITAE / PROFESSIONAL HISTORY

PERSONAL DATA:

Ellyn Daugherty

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PRESENT EMPLOYMENT:

Biotechnology Educator, Author, and Consultant

Rockstar Science, Inc.
260 King St. #1607
San Francisco, CA 94107
(650) 400-9424

EDUCATIONAL HISTORY:

Portland State University	Biology (Plant Physiology)	1973 - 1984	M.S.T. Biology 1984 B.S. Biology 1977
San Jose State University	Biology	1973 - 1974	Undergraduate Work
San Francisco State University	Biology	1971 - 1973	Undergraduate Work

PROFESSIONAL DEVELOPMENT/COURSES/TRAINING:

Biotechnology Teacher-Leader Program	Biotechnology Institute/BIO	2000-2010
PCR and DNA Sequencing Workshops	BABEC/Applied Bio, Foster City	1995-2003
Case Studies in Biotechnology	Foothill College, Mountain View	Fall 1999
Summer Intern, Biotech Curriculum Devel.	Applied Bio, Foster City, CA	Summer 1995, '97
Galapagos Field Study Travel Program	Stanford University	Summer 1994
Access Excellence (Biotech Ed) Program	Genentech and NABT	Summer 1994
Summer Intern, Process Development	Genentech, S. San Francisco, CA	Summer '91, '92
Advanced Placement Biology Workshop	Stanford University	8/90, 2/91
DNA Science Workshop	San Francisco State University	6/90
Protein Chemistry Workshop	Genencor, S. San Francisco, CA	8/88
USF/NSF Biotechnology Workshop	University of San Francisco	6/88 - 7/88
Biology Forum	California Academy of Sciences	1986 - 1988
Adv Curriculum Design for High Achieving Students	Oregon City School District	3/85

COURSES TAUGHT:

SUBJECTS	SCHOOL	# OF YEARS
Biotechnology 1, 2, 3, 4, "5-6"	San Mateo High School / ROP	15
Advanced Placement Biology	San Mateo High School	5
Life Science	San Mateo High School & Oregon City School District	9
Science Research/Genetic Eng	San Mateo High School	5
Biology (COLLEGE PREP, GATE)	San Mateo High School & Oregon City School District	16
Environmental Science	Oregon City School District	2
Exploratory Science	Oregon City School District	2
Intro to Chem/Physics	Oregon City School District	2

LABORATORY EXPERIENCE: Proficient with:

Spectrophotometers (UV-VIS, Spec 20)	Gel Electrophoresis Apparatus
Gel Filtration, Ion exchange, and Affinity Chromatography Columns	Polyacrylamide/Agarose Gels
Centrifuge, Ultra- and Micro-	Pipets/Micropipets/Balances
Dialysis, Concentrating solutions, pH Meter	PCR
Sterile Technique (Autoclave)	Dissection
Microscopy (Light, Phase-Contrast)	Bacterial Culture, Replica Plating
MacIntosh Computers	Experimental Design / Random Sampling
	Microsoft Word, PowerPoint®, Excel, Email, Internet

OTHER PROFESSIONAL/WORK EXPERIENCE:

Author, Biotechnology Textbook, Lab Manual, CD	EMC/Paradigm Publishing	2006, 2012, 2017
Research Intern - Protein Biochemistry	Genentech, S. San Francisco, CA	1991-1992
Genetic Engineering Course Coordinator	San Mateo High School	1988 - 1992
Genenschool Instructor	Genentech, S. San Francisco, CA	Summer '90-'97
Forestry/Silviculture Worker	USDA Forest Service	1980

OTHER ROLES AS A PROFESSIONAL EDUCATOR:

Biotechnology Education Consultant	www.BiotechEd.com	2003-2016
Gifted and Talented Education Coordinator	San Mateo High School	1999-2003
School to Work Committee Member	San Mateo High School	1997-2003
Cooperating (Master) Teacher - Eight Time	Stanford/Notre Dame Univ	1993-2003
Mentor Teacher/Workshops Biotechnology Curriculum	San Mateo High School	1994 - 2003
Coordinator - "Science Night"	San Mateo High School	1994 - 1998
IISME Summer Intern - Biotech Ed/Business Liaison	Applied Biosystems	Summer 1995,1997
Science Curriculum Council	San Mateo Union HSD	1993 - 1998
Mentor Teacher - Laserdisc Technology for Biology	San Mateo High School	1989 - 1990
USF/NSF Biotechnology Workshop (Lead Teacher)	University of San Francisco	6/89 - 7/89
Life Science Curriculum Committee	San Mateo High School	1988
Instructional Training Into Practice (ITIP) Coach	Portland State University	1984, 1985
Biology Textbook Review/Adoption Committee	Oregon City/San Mateo High	1984, 1996, 1997

AWARDS/RECOGNITION:

National Biotechnology Teacher Leader Award, 2004, Genezyme, Inc.
 California State Finalist, Presidential Award in Math and Science, 2000
 Kent Award Winner, San Mateo County Board of Education, 1998
 Tandy Technology Scholars Outstanding Teacher Award, 1997
 LaBoskey Award (Stanford University, Master Teacher Award), 1995
 Stanford Alumni Association Recipient of Galapagos Study Scholarship, 1994
 Access Excellence Award, NABT and GENENTECH, Inc. 1994
 National Distinguished Teacher, Commission on Presidential Scholars, 1992

PUBLICATIONS:

Daugherty, E. (2006, 2012, 2017). *Biotechnology: Science for the New Millennium*, EMC Paradigm Publishing

Daugherty, E. (2005). *Biotechnology: Careers for the 21st Century*, The Link, Career College Association

Daugherty, E. and S. Smith (1998). *Science Careers*, Access Excellence at the National Health Museum, <http://www.accessexcellence.org/AE/newatg/Daugherty/>

Daugherty, E. (1997). *Buy Low, Sell High – Investing in Virtual Portfolios Yields Real-World Learning*, Intel Innovation in Education, http://www97.intel.com/education/odyssey/day_014/day_014.htm

Daugherty, E. (1994). *Using Ion Exchange Chromatography to Separate Proteins*, Access Excellence at the National Health Museum, http://www.accessexcellence.org/AE/AEC/AEF/1994/daugherty_ion.html

Daugherty, E. (1994). *Saving America's Endangered Species*. Access Excellence at the National Health Museum, <http://www.accessexcellence.org/AE/ATG/data/released/0345-EllynDaugherty/index.html>