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EDUCATION AND EMPLOYMENT INFORMATION

ACADEMIC TRAINING

Ph.D. Microbiology Kansas State University 1987
Dissertation Title: Conjugation and Chromosome Mobilization in *Staphylococcus aureus*
B.S. Bacteriology University of Wisconsin, Madison 1980
Biology Colorado State University 1976-1977

PROFESSIONAL WORK EXPERIENCE

1998 - present Associate Professor
School of Life Sciences
Arizona State University, Tempe, AZ
1991-1998 Assistant Professor
Department of Microbiology
Arizona State University, Tempe, AZ
1987 -1991 Postdoctoral Research Fellow
Laboratory of Molecular Biology
National Cancer Institute, National Institutes of Health
Bethesda, MD
Mentor: Dr. Susan Gottesman
1982-1987 National Cancer Institute Pre-Doctoral Fellow and
Graduate Teaching Assistant
Division of Biology
Kansas State University, Manhattan, KS
Advisor: John Iandolo

TEACHING AND ADVISING

FORMAL INSTRUCTIONAL SUMMARY

Spring 2007: **MIC 302**, Advanced Bacteriology Lab, 1 section. I spend approximately 3 hours/week in this class with approx. 15 students.
MIC 360, Bacterial Physiology. This is an advanced undergraduate class with approx. 45 students.
MIC 401, Senior Paper. I organize presentations of the senior papers (30 students)
MIC 442, Bacterial Genetics Lab. I spend approx. 2 hours/week in this lab with 12 students.
Fall 2006: **MIC 302**, Advanced Bacteriology Lab, 2 sections. I spent approximately 5 hours/week in these two lab sections with approx. 40 students, total.
MIC 220, General Bacteriology. Introductory course for majors, with approx. 140 students. I taught half the class.
MIC 401, Senior Paper. I organize presentations of the senior papers (15 students)

Spring 2006: **MIC 302**, Advanced Bacteriology Lab, 2 sections. I spent approximately 5 hours/week in these two lab sections with approx. 31 students, total.
MIC 360, Bacterial Physiology. This is an advanced undergraduate class with approx. 55 students.
MIC 401, Senior Paper. I organized presentations of the senior papers (25 students)
MIC 442, Bacterial Genetics Lab. I spent approx. 2 hours/week in this lab with 16 students.

Fall 2005: **MIC 302**, Advanced Bacteriology Lab, 3 sections. I spent approximately 8-9 hours/week in these three lab sections with approx. 40 students, total.
MIC 220, General Bacteriology. Introductory course for majors, with approx. 100 students. I taught half the class.
MIC 401, Senior Paper. I organized presentations of the senior papers (25 students)

Spr 2005: **MIC 302**, Advanced Bacteriology Lab, 2 sections. I spend approximately 8-9 hours/week in these three lab sections with approx. 33 students, total.
MIC 360, Bacterial Physiology. This is an advanced undergraduate class with approx. 60 students.
MIC442, Bacterial Genetics Lab. I spend approx. 2 hours/week in this lab with 10 students.
MIC 401, Senior Paper. I organize the students to give presentations of their papers in class. Approx. 20 students

Fall 2004: **MIC 302**, Advanced Bacteriology Lab, 3 sections. I spend approximately 8-9 hours/week in these three lab sections with approx. 40 students, total.
MIC220, General Bacteriology. Introductory course for majors, with approx. 100 students. I taught half the class.
MIC 401, Senior Paper, I organize the students to give presentations of their papers in class. Approx. 20 students

Spr 2004: **MIC 360**, Bacterial Physiology. This is an advanced undergraduate class with approx. 40 students.
MIC/MBB445, Techniques in Molecular Biology lecture. This is an advanced class with approx. 25 students. I teach half the classes.
MIC/MBB446, Techniques in Molecular Biology lab. This is an advanced lab class with approx. 12 students. I spend approx. 1-2 hours/week with this lab.

In addition, each semester, I co-teach a journal club course for graduate students, in which students and faculty read and present research papers and I teach a weekly lab meeting in which students learn to present and critique both their data and other's data.

DETAILED LIST OF ALL COURSES TAUGHT

LIA191 Freshman Discovery Tour. 1 credit. Fall semester (1995-2000). Team taught. Class size: 70-100 students.

BIO188 General Biology II. 3 credits. Fall semester (2003). Co-teacher. Class size: 290 students.

MIC205 Microbiology. 3 credits. Spring semester (1993-2003, 2006). Sole lecturer (2 semesters), team taught (2 semesters). Faculty-in-charge. Developed curriculum.

Service course. Class size: 100-170 students.

- MIC220 General Bacteriology. 3 credits. Fall semester (2004-6). Co-teacher. Faculty-in-charge. Developed curriculum. Class size: 100-170 students.
- MIC302 Advanced Bacteriology Lab. 2 credits. Fall and spring semesters (1995-2007). Sole lecturer and faculty-in-charge. L (literacy) class. Class size: 30-45 students.
- MIC360 Microbial Physiology. 3 credits. Spring semester (2004-7). Sole lecturer. Developed curriculum. Class size: 40-60 students.
- MIC401 Senior Paper. 1 credit. All semesters (1991-present). Class size: 1-20.
- MIC442 Bacterial Genetics Lab. 2 credits. Fall semester (1992-present). Developed curriculum. Class size: 12 students.
- MIC/MBB445 Techniques in Molecular Biology Lecture. 2 credits. Spring semester (1992-2004). Team taught. Developed curriculum. Class size: 10-20 students.
- MIC/MBB446 Techniques in Molecular Biology Lab. 2 credits. Spring semester (1992-2004). Team taught. Developed curriculum. Class size: 8-14 students.
- MIC495 Undergraduate Research. 1-5 credits. All semesters (1992-present). Faculty-in-charge. Developed curriculum. Class size: 2-4.
- MCB555/556 Advanced Molecular and Cellular Biology II. 3 credits. Spring semester (1995), Fall semester (1997-8). Team taught. Developed curriculum. Class size: 15-20 students.
- MIC590 Readings and Conference. 2-4 credits. A total of 3 semesters (1993-present). Developed individual curriculum. Total number of students: 3.
- MIC/MCB591 S: Advanced Bacterial Studies. 1 credit. Spring and Fall semester (1993-present). Team taught journal club. Class size: 8-15.
- MIC598 Molecular and Biochemical Problems 3 credits. Fall semester (1992). Sole lecturer. Developed curriculum. Class size: 5 students.
- MIC598/498 Bacterial/Host Relationships 3 credits. Fall semester (1994). Sole lecturer. Developed curriculum. Class size: 8 students.
- MIC/MCB598 GCG: Sequence Analysis 3 credits. Fall semester (1996-97). Sole lecturer. Developed curriculum. Class size: 5-15 students.

CURRICULUM DEVELOPMENT AND INNOVATIONS

MIC205 Microbiology

Developed format that was broader and less detailed including relating the material to the 'real world' - newspaper and magazine articles were presented (e.g. antibiotic resistance, mad cow disease, new HIV drugs); taught the value of critical evaluation of articles; encouraged students to 'see the big picture'
Engaged the students in discussions/questions in class that required creative thinking and problem solving, not just a lecture/note taking format
Gave creative demonstrations of active processes that are difficult to understand from static pictures
Gave individual attention/mentoring outside of class

MIC360 Bacterial Physiology

Developed format that involved student participation to answer questions and stimulate discussion
Students taught to critically evaluate journal articles in detail

MIC442 Bacterial Genetics Lab

Developed experiments that employ the most currently used molecular and classical genetics techniques
Employed critical thinking approach to solve problems: integrated teaching and research so that students discover the answers themselves
Encouraged cooperative learning methods

MIC445/446 Techniques in Molecular Biology

Developed curriculum (with one other faculty)
Emphasized critical thinking: students solve problems themselves
Integrated teaching and research: some experiments conducted for the first time and students discover answers themselves
Employed cooperative learning techniques
Re-evaluated and made changes to course each year due to changes in most current techniques available
Rated as most valuable class by many alumni, including those destined for professional schools (dental, medical), graduate schools, and jobs in various sectors of the economy

MCB555/556 Advanced Molecular and Cellular Biology

Initiated use of computers in the classroom
Supported MCB program
Employed cooperative learning techniques

MIC598 (Molecular and Biochemical Problems)

Developed critical thinking approach by having students critically evaluate journal articles
Integrated different approaches to solving problems in microbiology
Integrated writing, thinking, and creativity by having students write a grant proposal

MIC598/498 (Bacterial Host Relationships)

Developed critical thinking approach by having students critically evaluate journal articles
Integrated teaching and research
Developed cooperative learning by having the entire class solve problems, with each person being allowed time to answer

Integrated writing, thinking, and creativity by having students write a grant proposal
 Worked actively as mentor of undergraduate students (especially women) showing them that they were capable of the critical thinking required of PhD students

MIC598/MCB598 (GCG: Sequence Analysis)

Employed computers in classroom
 Supported MCB program
 Developed cooperative learning approaches
 Employed critical thinking approaches

STUDENT RESEARCH/TRAINING

This section includes accomplishments in which teaching and research overlap. Therefore, instead of listing these accomplishments in both teaching and research sections, they are listed here.

GRADUATE COMMITTEES CHAIRED

<u>Name</u>	<u>Degree/Year</u>	<u>Position upon leaving</u>
Lopez-Torres, Arleen	Ph.D. Microbiology 1995	Assoc. Professor Univ. of Puerto Rico-Bayamon
Weeks, Kim	M.S. Microbiology 1995	Microbiologist Aquatic Consulting
Gupte, Geeta	Ph.D. Molecular and Cellular Biology 1996	Postdoctoral fellow Associate, NIH
Tierney, David	Ph.D. Molecular and Cellular Biology, 2002	Postdoctoral fellow U. Minnesota
Heck, Mike	Ph.D. Microbiology, 2002	Postdoc - ASU
Brun, Jan	M.N.S. Biology, 1998	Ph.D. student
Trautman, Elizabeth	M.N.S. Microbiology, 2001	Med. Student
Khalsa, Guruatma	M.N.S. Microbiology, 2001	Lecturer, Mesa CC
Iyer, Shymala	M.N.S. Microbiology, 2000	Ph.D. student
Rosca, Elena	M.N.S. Microbiology, 2001	Med student
Prendergast, Jay	M.N.S. Microbiology, 2000	unknown
Tobler, Marc	---	Med student
Knapp, Patrick	M.N.S. Biology	deceased
Repp, Kimberly	Ph.D. Microbiology, 2005	post-doc
Manfrida, Joe	Ph.D. Microbiology, 2006	looking for job
Berg, Mike	Ph.D. Mol Cell Biol, 2006	looking for postdoc
Patrick Daydif	M.S. Microbiology, 2006	faculty assoc.
Sawyer, Alicia	M.N.S. Microbiology, 2006	Med student
<u>Current students</u>		
Christine Dobbin	Ph.D. Microbiology	
April Lauer	Ph.D. Microbiology	
Powell, Linda	Ph.D. Mol Cell Biol	
Do, Tanya	Ph.D. Microbiology	

GRADUATE COMMITTEE SERVICE (other than chair)

<u>Name</u>	<u>Degree</u>	<u>Year completed</u>
Leiser, Owen	Ph.D. Microbiology	

Treuer, Robin	Ph.D. Microbiology	
Holecheck, Susan	Ph.D. Molecular and Cellular Biology	
Beraldi, Hugo	Ph.D. Microbiology	
Cameron, Jason	Ph.D. Molecular and Cellular Biology	
Lepore, Kate	Ph.D. Plant Biology	
Pino, Dania	M.S. Molecular and Cellular Biology	
Trainor, Kelly	Ph.D. Microbiology	
Pearcy, Matt	Ph.D. Molecular and Cellular Biology	2006
Franco, Daniel	Ph.D. Molecular and Cellular Biology	2006
Husain, Fasahath	Ph.D. Microbiology	2005
McIntosh, Kim	M.S. Biology	2006
del Rosario, Melissa	Ph.D. Molecular and Cellular Biology	2005
Taurig, Mike	Ph.D. Microbiology	2004
Shahin Mirilavasani	Ph.D. Microbiology	2004
Chirravuri, Saroj	M.N.S. Microbiology	2004
Celaya, Teresa	M.S. Microbiology	2004
Bulusu, Saroj	M.S. Microbiology	----
Dobrin, Seth	Ph.D. Molecular and Cellular Biology	2004
Muralinath, Maneesha	Ph.D. Molecular and Cellular Biology	2003
O'Connor, Pam	Ph.D. Molecular and Cellular Biology	2002
Talesa, Latha	M.S. Microbiology	2002
Williams, Teri	Ph.D. Chemistry	2001
Rousseau, Emma	M.S. Molecular and Cellular Biology	2000
Acharya, Swati	M.S. Microbiology	2000
Brandt, Teresa	Ph.D. Molecular and Cellular Biology	2000
Pujol, Lisa	M.S. Molecular and Cellular Biology	1997
Fajardo, Daniel	Ph.D. Microbiology	1997
Biesterfeldt, Jennifer	M.S. Microbiology	1997
Lopez, John	M.S. Molecular and Cellular Biology	1996
Herikoff, Lisa	Ph.D. Molecular and Cellular Biology	1996
Deeter, Jack	M.S. Microbiology	1995
Shors, Teri	Ph.D. Molecular and Cellular Biology	1995
Yang, Hsin-Sheng	Ph.D. Molecular and Cellular Biology	1994
McVicker, LuAnn	Ph.D. Civil Engineering	1994
Eggars, Beth	M.S. Molecular and Cellular Biology	1992

REPRESENTATIVE UNDERGRADUATE STUDENTS WHO'VE RECEIVED RESEARCH TRAINING IN MY LABORATORY (MIC495) (incomplete list)

I'm usually mentoring 4 undergraduate students in my lab at any one time.

<u>Name</u>	<u>Academic Year</u>	<u>Destination</u>
Jennifer Huang	1991-1993	Technician, food industry
Steve Connors	1991-1992	Technician
Mamoun Ahram	1992-1994	Graduate school
Paul Albrecht	1994-1995	Medical school
Clarissa Dirks	1994-1995	Graduate school
Lisa Ackerman	1994-1995	Graduate school
Lonnie Miner	1993-1994	Medical school
*Corie Woodward	1994-1996	Technician, health industry

Jennifer Reed	1994-1995	Law school
Julie Stull	1995-1996	Medical school
*Janell Knotts	1994-1996	Technician, agriculture industry
Nariman Nasser	1994-1996	Researcher, NIH
Barb Stout	1995-1996	Graduate school
Alison Stout	1995-1997	Osteopathic medical school
Divyesh Raithatha	1996-1996	Unknown
Ryan Barton	1996-1997	Medical school
Karl Brown	1996-1998	Graduate school
*Shandiin Ridpath	1996-1997	Unknown
James Walters	1997-1998	NIH fellow
*Robert Blouch	1997-2000	Graduate school
Stephanie Saide	1999-1999	Dental school
*Preety Shah	1998-2000	Medical school
*Tamara Flys	1997-2002	Graduate school
*Jennifer Snodgrass	1999-2001	Technician, Sun Health
Daydif, Patrick	2000-2001	Graduate school
Khalif, Amanee	2002-2002	Unknown
*Cameron, Jason	2002-2003	Graduate school
Moffett, Jasmine	2002-2003	Medical school
*Lauer, Jarrod	2002-2004	Graduate school
Ketz, Jason	2003-2003	unknown
Groom, Kerry	2003-2004	unknown
*Shewmaker, Jennifer	2003-2004	graduate school
*Sanchez, Ana	2003-2003	graduate school
Deane, Mindy	2004-2004	unknown
Mosqueda, Lourdes	2004-2005	dental school
Rkein, Ali	2004-2005	medical school
*Spotts, Kim	2002-2006	graduate school
*Lytle, Jenny	2004-2006	biomedicine job
*Siddiqui, Selma	2004-2007	
Heidi Contreras	2005	
White, Kelly	2005	unknown
Mendez, Tony	2005	unknown
Jennas, Brianna	2005	unknown
Freeman, Leah	2006	unknown
Johnson, Kyle	2006	
Webb, Andrew	2006	pharmacy school
Whang, Patrick	2006-2007	
Gosselink, Mark	2006	
Soto, Danelle	2006-2007	
Shough, Beth	2006-2007	
Buzniak, Danica	2006-2007	

* Hughes Fellow or MARC (Minority Access to Research Careers) Fellow or SoLUR Fellow

UNDERGRADUATE ADVISING

Undergraduate advisees: at least 30 students that approach me for advise on an informal basis.

This requires approximately 1-2 hours/week. (Before 2003 and SoLS formation, I formally advised approx. 50 students that required about 3-4 hours/week)

OTHER TEACHING/MENTORING

I have actively been serving as not only a role model, but an active mentor for many women in the life sciences. I have attracted many women undergraduates to do research in my laboratory.

TEACHING AWARDS AND HONORS

2002, '03 Nominated for the Last Lecture Series, ASU

1996 Graduate Student Council Outstanding Faculty Mentor

1996, '98 Nominated for the College of Lib. Arts and Sciences Distinguished Advising Award

1994, '98, '00, '05 Nominated for the College of Lib. Arts and Sci. Distinguished Teaching Award

2003, 2004, 2005 Nominated for Parents Professor Award

2006 Certificate of Appreciation, Barrett honors College

SCHOLARSHIP AND CREATIVE ACTIVITY

PUBLICATIONS

The starred publications are the ones that have been published due to student research training in my lab at ASU. In the field of microbiology, the principal investigator's name traditionally is listed last and the people who conducted the experiments are listed first.

Stout, V. and landolo, J. 1990. Chromosomal Gene Transfer during Conjugation by *Staphylococcus aureus* is Mediated by Transposon-Facilitated Mobilization. *J. Bacteriol.* **172**:6148-6150.

Stout, V. and Gottesman, S. 1990. RcsB and RcsC: a Two-Component Regulator of Capsule Synthesis in *Escherichia coli*. *J. Bacteriol.* **172**:659-669.

Stout, V., Torres-Cabassa, A., Gutnick, D., Maurizi, M., and Gottesman, S. 1991. RcsA, An Unstable Positive Regulator of Capsular Polysaccharide Synthesis. *J. Bacteriol.* **173**:1738-1747.

Gottesman, S. and Stout, V. 1991. Regulation of Capsular Polysaccharide Synthesis in *Escherichia coli* K12. *Molec. Microbiol.* **5**:1599-1606.

Stout, V. 1994. Regulation of capsule synthesis includes interactions of the RcsB/RcsC regulatory pair. *Res. Microbiol.* **145**: 389-392.

*Stout, V. 1996. Identification of the promoter region for the colanic acid polysaccharide biosynthetic genes in *Escherichia coli*. *J. Bacteriol.* **178**:4273-4280.

*Lopez-Torres, A.J. and V. Stout. 1996 Role of colanic acid in serum resistance in vivo and in adherence. *Current Microbiol.* **33**:1-7.

*Gupte, G., C. Woodward and V. Stout. 1997. Isolation and characterization of *rscB* mutations that affect colanic acid capsule synthesis in *Escherichia coli* K-12 *J. Bacteriol.* **179**:4328-4335.

*McVicker L., D. Duffy and V. Stout. 1998. Microbial growth in a steady state model of ethylene glycol-contaminated soil. *Current Microbiol.* **36**:136-147.

*Hanna, A., M. Berg, V. Stout, and A. Razatos. Role of Capsular Colanic Acid in Adhesion of Uropathogenic *Escherichia coli*. *App. Env. Microbiol.* **69**: 4474-4481. (Hanna and Berg made equal contributions to this manuscript, as did Stout and Razatos)

* Majdalani, N., M. Heck, V. Stout and S. Gottesman. 2005. Role of RcsF in Signaling to the Rcs Phosphorelay Pathway in *Escherichia coli*. *J. Bacteriol.* **187**: 6770-6778. (Majdalani and Heck made equal contributions to this manuscript)

*Do, T., V. Stout, W.D. Swingley, J.C. Meeks, and F. Garcia-Pichel. Molecular Genetics and Genomic Analysis of Scytonemin Biosynthesis in *Nostoc punctiforme* ATCC 29133. Submitted to *J. Bacteriology*, November 2006.

Dobbin, C. and V. Stout. Genetic characterization of tolaasin toxin regulatory pathway in

Pseudomonas tolaasii. Will be submitted to J. Bacteriology, March 2007.

Manfrida, J and V. Stout. Genetic characterization of the protease PtrIII in *Escherichia coli*. Will be submitted to Journal of Bacteriology in March 2007.

Berg, M, P. Daydif, and V. Stout. Analysis of the role of colanic acid in biofilm development in *Escherichia coli*. Will be submitted to J. of Bacteriology in April 2007.

RESEARCH GRANTS

6/05-12/05 Arizona State University, College Grant Award Program to Advance the Quality of Undergraduate Education. "Purchase of AlphaImager Imaging System for Undergraduate Laboratories in the School of Life Sciences" \$11,288.

1/99-12/99 Arizona State University, Faculty Grant-In-Aid. "Colanic Acid Capsule Detection in the Environment" \$7000.

1/99-12/99 Arizona State University, College of Liberal Arts and Sciences Mini-Grant. "Characterization of a Regulator of Capsule Synthesis in *E. coli*" \$2000.

10/91-10/92 Arizona State University Research Incentive Award. "Molecular Interactions Involved in Capsule Synthesis" \$8,000.

12/91-12/92 Arizona State University, Biomedical Research Support Grant. "Protein/Protein Interaction in Capsule Synthesis" \$5,000.

02/93-07/98 National Science Foundation grant. "Molecular Interactions Involved in Capsule Regulation." \$390,000.

1/94-12/94 Arizona State University, Faculty Grant-In-Aid "A new method to Analyze Biodegradation in Soils." \$5,481.

1/95-12/95 National Science Foundation. "A DNA sequencing facility for interdisciplinary biological research" \$93,711. Co- PI.

10/94-10/97 ASU Main Campus Strategic Planning and Budgetary Committee. "Ecosystem Management, Environmental Transport and Biore restoration" \$221,000. Co-PI.

ABSTRACTS, POSTERS AND PRESENTATIONS AT LOCAL, NATIONAL AND INTERNATIONAL MEETINGS (since arriving at ASU)

	<u>National/International Meetings</u>	<u>Local/Regional Meetings</u>
1993	2	0
1994	4	3
1995	4	3
1996	1	3
1997	0	1
1998	1	4
1999	3	3
2000	1	2
2001	2	1
2002	0	4
2003	3	2
2004	0	3
2005	0	2
2006	3	3

INVITED SEMINARS/ COMMUNITY OUTREACH

1990

Department of Microbiology, University of Maryland at Baltimore. "Regulation of Capsule Synthesis in *E. coli*."

Department of Microbiology, Bowman-Gray School of Medicine. "Regulation of Capsule Synthesis in *E. coli*."

Department of Microbiology, Arizona State University. "Regulation of Capsule Synthesis in *E. coli*."

Department of Microbiology, University of Maryland, Baltimore County. "Regulation of Capsule Synthesis in *E. coli*."

1991

FASEB Summer Conference on Positive Control of Transcription Initiation in Prokaryotes. "Regulation of Capsule Synthesis in *E. coli*."

1992

Molecular and Cellular Biology Program, Arizona State University. "Regulation of Capsule Synthesis in *E. coli*."

1993

Sun City Horizon Club. "Genetic Engineering"

1994

Southwest College of Naturopathic Medicine. "General Microbiology"

Spirit of the Senses. "Genetic Engineering"

1995

Scottsdale Kiwanis. "Genetic Engineering"

Spirit of the Senses. "Ethics of Genetics"

National Institutes of Health. Molecular interactions in capsule regulation in *E. coli*.

1996

Ecosystem Engineering Seminar Series, Arizona State University. "A novel steady state system for modeling biodegradation"

Women's Words radio show, KAFR. "Women and Science"

Spirit of the Senses. "Perfect People"

1997

Queen Creek Kiwanis. "Genetics and the Human Genome Project"

Northern Arizona University. "Regulation of capsule synthesis in *E. coli*."

1998

University of Arizona. "Regulation of capsule synthesis in *E. coli*."

2001

Montana State University. "Regulation of capsule synthesis in *E. coli* and its role in biofilm formation"

National Institutes of Health. "Role of an *E. coli* capsule in biofilm formation"

2003

National Institutes of Health. "Role of colanic acid exopolysaccharide in biofilm formation"

Univ. of Arizona. "Role of colanic acid exopolysaccharide in *E. coli* biofilms"

2004

Spirit of the Senses. "Antibiotic resistance"

University of Puerto Rico, Symposium on Global Change, "Effect of Global Change on Emerging Diseases"

2006

Spirit of the Senses. "Good Bacteria and human health"

RESEARCH HONORS, AWARDS AND FELLOWSHIPS

1996 Graduate Student Council Outstanding Faculty Mentor

1988-1991 NIH National Research Service Award for postdoctoral fellows

OTHER RESEARCH ACTIVITIES

Collaboration established in 1991 with Dr. Susan Gottesman (NIH) to analyze the regulation of colanic acid capsule expression in *E. coli*.

Collaboration established in 2000 with Dr. Annetta Razatos (ASU Chemical Engineering Dept.) and Dr. Bill Costerton (Director, Center for Biofilm Engineering at Montana State University) to analyze the role of colanic acid capsule in biofilm formation.

Collaboration established in 2002 with Dr. Bruce Towe (ASU Bioengineering Dept.) to create a bio-reporter system for monitoring changes in the space shuttle and space station.

Collaboration established in 2004 with Dr. Ferran Garcia-Pichel (Sch. Of Life Sciences, ASU) to study the expression of genes involved in sunscreen production in *Nostoc* species.

SERVICE

ON CAMPUS

University

Science Day Committee 1992
Biosafety Committee 1994-present

College

Molecular & Cell Biology Program Chair Search Committee 1992
Molecular & Cell Biology Program Admissions Committee 1992-93
Life Sciences Media Specialist Search Committee 1993-94
Molecular & Cell Biology Executive Committee 1993-95
Molecular & Cellular Biology Seminar Committee, Chair 1994-95, 1996-97
Molecular & Cellular Biology Seminar Committee 1994-2001
Molecular & Cellular Biology Comprehensive Exam Comm., Chair 1995-96
Molecular & Cellular Biology Comprehensive Exam Committee 1996-2001
Molecular & Cellular Biology Admissions Committee 1997-1999, 2001-02
Molecular & Cellular Biology Admissions Committee, Chair 2001-2002
Molecular & Cellular Biology Graduate Studies Committee 1999-2001
Molecular & Cellular Biology Executive Committee 2001-2003
College of Liberal Arts and Sciences Associate Dean of
Personnel Search Committee 2000
SOLS Undergraduate Ad hoc Committee 2002-2003
SOLS Director Search Committee 2002-2003
College Requirements Committee 2002-2005
College Curriculum Committee 2004-2005

Department/School

Microbiology Dept. By-laws Committee 1991-92
Microbiology Dept. Program Review Committee 1993-94
Microbiology Dept. Medical Microbiologist Search Committee 1993-94
Microbiology Dept. Darkroom Committee 1993-2001
Microbiology Dept. CLAS-ACT Representative 1994-2001
Microbiology Dept. Graduate Program Director 1996-1999
Microbiology Dept. Faculty Search Committee 1998-1999
Microbiology Dept. Undergraduate Program Director 1999-2003
Microbiology Dept. Budget and Personnel Committee 1999-2003
Microbiology Dept. Budget and Personnel Committee, Chair 2001-2003
SOLS Undergraduate Programs Committee 2003-present
Molecular and Cellular Biology Grad Program, Coordinator 2003-2005
SOLS Faculty Search Committee 2004-2005
Microbiology Curriculum Review Committee 2006-2007

OFF-CAMPUS

American Society for Microbiology, Arizona Branch, Councilor (1996-2003)
American Society for Microbiology, Arizona Branch, President-elect (2004-5)
American Society for Microbiology, Arizona Branch, President (2005-6)
Arizona Science Center, consultant and participant in "Mothers of Invention"

Media consultant in 2001 for KTAR radio, Channel 5, Channel 15, Tribune Newspaper, ASU Newswatch. Educated the public about anthrax.

MANUSCRIPTS REVIEWED (approximately 1-2 per year)

Journal of Bacteriology, Ad hoc reviewer

Gene, Ad hoc reviewer

Molecular Microbiology, Ad hoc reviewer

Proceeding of the National Academy of Sciences, Ad hoc reviewer

Microbiology book for Lea and Febiger publishers

Various book chapters

RESEARCH PROPOSAL REVIEWED (approximately 1-2 per year)

NSF Bacterial Genetics Program grants, Ad hoc reviewer

NIH Study Section Panel for the MBRS Program (Oct. 1994)

NSF Study Section Panel for Research Planning Grants and Career Advancement awards for
Women Scientists (Mar. 1995)

Wesley Foundation, Ad hoc reviewer

Kansas Project 2000, Ad hoc reviewer

USDA, Ad hoc reviewer

CURRENT PROFESSIONAL ASSOCIATIONS

American Society for Microbiology, Member and Councilor for the Arizona Branch

American Association for the Advancement of Science, Member