CLARISSA M. CHENEY

CURRICULUM VITAE

Department of Biology
Pomona College
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U. S. Citizen.

EDUCATION

Ph.D.	University of Pennsylvania, 1979	Biology
	Thesis advisor: Dr. J. W. Lash	
	Thesis title: Diversification within embryonic chick somites: differential response to notochord.	
M. Phil.	Yale University, 1970	Biology
B. A.	Goucher College, 1969	Biological Sciences

EMBO Course on Antibodies as Probes in Development, Southampton, UK, July 1980
Molecular Biology of *Drosophila* Course, Cold Spring Harbor Laboratory, NY July 1979
Embryology Course, Marine Biological Laboratory, Woods Hole MA, Summer 1976
Invertebrate Zoology Course, Marine Biological Laboratory, Woods Hole MA, Summer 1967

PROFESSIONAL EXPERIENCE

Associate Professor of Biology, Pomona College, Claremont, CA 1997-present
Chair of Biology, Pomona College, Claremont CA July 2005-July 2007
Assistant Professor of Genetics, Washington University School of Medicine, St. Louis MO 1989-1997
Assistant Professor of Biology, The Johns Hopkins University, Baltimore MD 1986-1989
Lecturer, Goucher College, Towson MD 1985-1986
Assoc. Research Scientist, The Johns Hopkins University, Baltimore MD 1982-1986
Postdoctoral Fellow, The Johns Hopkins University, Baltimore MD 1979-1982
Postdoctoral Advisor: Dr. A. Shearn
Postdoctoral Project: Biochemical analysis of *Drosophila* imaginal disk mutants.
Teaching Assistant, Embryology Course, Marine Biol. Lab., Woods Hole, MA 1978
Teaching Assistant, Undergraduate Curriculum Project, Univ. of Penna., l975-l976
Teaching Assistant, Introductory Biology, Univ. of Penna., 1974-1975
Teacher of science, grades 9-12, Commonwealth School, Boston, MA 1972-1974
Teacher of science, grades 7-12, Day Prospect Hill School, New Haven, CT 1970-1972
Teaching Assistant, Introductory Biology, Yale Univ., 1969-1970.

HONORS

Irvine Distinguished Faculty Fellowship for mentoring of underrepresented students, Pomona College 2003
The George Owen Teaching Award for outstanding teaching (sole recipient in 1988). Awarded by the Class of l988, The Johns Hopkins University 1988
American Cancer Society post-doctoral fellowship 1979 (awarded, but declined)
University Fellowship, University of Pennsylvania 1978 (awarded, but declined)
Woods Hole Scholarship from Goucher College 1967

Academic Scholarship, Goucher College 1964-1968
National Honor Society, Marblehead High School, Marblehead, MA 1963

MAJOR RESEARCH SUPPORT:
NIH NRSA predoctoral trainee, Univ. of Pennsylvania (a competitive award) 1976-1979
NIH NRSA postdoctoral fellowship 1979-1983
NSF research grant, co-principal investigator with A. Shearn, 1983-1985
Basil O'Connor Starter Scholar Research Award from the March of Dimes Birth Defects Association, 1986-1989
American Cancer Society Institutional Grant award 1987, $10,000.
Lucille P. Markey Charitable Trust Institutional Grant, (a competitive award within WashU) 1990-1992, $60,000.
NIH BRSG award, 1990, $9,000.
NSF research grant, "Small GTP-binding proteins and cell division control", 1992-1995, $250,000.
NSF research grant, "RUI: Proteins that control interaction of rab GTPases and GDI", 1999-2002, $262,000.
NSF research grant, "RUI: Proteins that control rab GDI", 2002-2006. $265,000.

TEACHING AND MENTORING ACTIVITIES AT POMONA COLLEGE
Courses:
1. Biology 52: Introductory Biology (Cellular and Molecular), Lab Instructor, Bio 52, Fall 1997 (3 contact hrs/wk, 33 sophomores) Fall 1997.

2. Biology 40: Introductory Genetics, Lecturer and Lab Instructor, Spring 1998 (7 contact hrs/wk, 31 freshmen and 1 senior); Spring 1999 (7 contact hrs/wk, 30 freshmen and 1 sophomore); Spring 2000 (7 contact hrs/wk, 27 freshmen,4 sophomores; course coordinator). Spring 2001: on sabbatical leave. Spring 2002 (7 contact hrs/wk, 30 freshmen); Spring 2003 (7 contact hrs/wk, 31 freshmen, 1 sophomore; course coordinator); Spring 2004 (7 contact hrs/wk, 30 freshmen), Spring 2006 (7 contact hrs/wk, 32 freshmen and sophomores); Spring 2007 (7 contact hrs/wk, 34 freshmen and sophomores); Spring 2009 (7 contact hrs/wk, 34 freshmen and sophomores).

3. Biology 169: Developmental Biology, Lecturer and Lab Instructor (2 lab sections), Fall 1998 (11 contact hrs/wk with no TAs), 25 juniors and seniors; Fall 1999 (11 contact hrs/wk with 2 TAs), 24 juniors and seniors; Fall 2000 (9 contact hrs/wk with 2 TAs, 27 juniors and seniors; Fall 2001 (11 contact hrs/wk with 1 TA, 18 seniors and 3 juniors); Fall 2002 (11 contact hrs with 1 TA, 10 juniors and 9 seniors); Fall 2003 (11 contact hrs/wk with 1 TA, 8 juniors, 12 seniors, 1 auditor); Fall 2005 (11 contact hrs.wk with 1 TA, 20 seniors); Fall 2006 (11 contact hr/wk, 15 seniors and 1 junior); Fall 2007 (11 contact hr/wk, 12 seniors and 5 juniors); Fall 2008 (11 contact hrs/wk, 7 seniors and 7 juniors).

Research Students (Total=62):
Senior experimental theses (Total =38):
1997-1998:

Miri Vanhoven (MoBio)	Constructing GDI mutants in an expression vector Currently, cell and molecular Ph.D. student, UCSF with C.. Bargmann. NSF pre-doctoral fellow.
Olivia Doyle (MoBio)	P element-mediated deletions in the *quartet* genomic region Ph.D. in Biology, Johns Hopkins with Joe Gall
Eric Kaufman (MoBio)	Immunoaffinity chromatographic isolation of GDI interacting proteins. M.D., U. Chicago

1998-1999:

Stacy Alvares (Bio)	Yeast two-hybrid system to identify GDI interacting proteins Full-time research in a *Drosophila* lab at Harvard Medical School, 1999-2001 Currently, Ph.D. student, Cell and Molecular Biology, Univ. Wash, Seattle
Jackie Flores Rivera (MoBio)	*nanos* mRNA and *quartet* Currently, Mol. Bio. Ph.D. program, USC.
Annie Lee (MoBio)	*quartet* cDNA Graduate work, in Cell and Molecular Ph.D. student, UCBerkeley
Christina Tsou (MoBio)	*rab* interactions of GDI mutants M.P H., Harvard, 2001 J.D., Univ. Cal. Berkeley
Colin Havenar-Daughton (MoBio)	Proteins that bind *nanos* mRNA Ph.D. student, Immunology, Univ of Washington

1999-2000:

Brian Richardson (Bio)	Hsp 83 and oogenesis Ph.D, Cornell University Medical School with Mary Baylies, currently post-doc with Dr. Ruth Lehmann, NYU
Dennis Kang (Bio)	Fertilization and *nanos* mRNA localization Masters in Physical Therapy, Columbia U, in private physical therapy practice .
Kenji Morimoto (Bio)	GDI affinity chromatography and GDI interacting proteins M.D., Cornell Medical School, pediatric oncology resident, UCLA
John Cupp (MoBio)	Screening for *quartet* cDNAs. M.D., UCSF
Roozbeh Houshyar (Bio)	Secretion in GDI mutants Full-time research, Yale Medical School, 2000-2001 Full-time research, UCLA Medical School, 2001-2002 M.D., Ross University
Adriana Ramirez (MoBio)	Mutagenic screen for secretion mutants Elementary school teacher, El Monte, 2000-2001 M.D., UCLA

2000-2001 (on sabbatical Spring 2001)**:**

Sornya Ponrartana (Bio)	EMS mutagenic screen for pupal lethals M. D., USC

2001-2002:

Maria Christenson (Bio)	Mapping of AL289 M.P.H., USC, in D. Pharm program UCSF
Ryan Skophammer (Bio)	Isolation of gene trap mutants that interact with GDI Ph.D. student in Mol. Biol, UCLA
Joe Lee (Bio)	Tbox genes in mice M.D., Univ. of Pennsylvania

2002-2003:

Janetta Iwanicki (Bio)	Female sterile phenotype of 35D GDI interactor M.D. student at UCSF
Laurence Meloty-Kapella (Bio)	rab26 as a candidate GDI interactor in 78A

M.S. Cal State SF, Ph.D. student in Molecular Biology at UCLA

Mika Izutsu (Bio) — Female sterile phenotype of 43C interactor
M.D. student, Univ. Hawaii

Sarom Pyun (Bio) — Mapping the spa2 GDI interactor
TeachAmerica

2003-2004:

Lillias Holmes (Bio) — Female sterile phenotype of 35D GDI interactor
M.D. student , Univ. of Pennsylvania; surgery intern, Harvard

Ryan Takeshita (Bio) — Phenotype and sequence of new GDI alleles
Ph.D. student, MCDBiology, UColorado, Boulder

Steve Wylie (Mo Bio) — GST-GDI pull-down studies of GDI interactors
Ph.D. student, Biology, Johns Hopkins Univ, deceased 3/09.

Shannon Wolff (Neuro) — *commissureless* as a candidate GDI interactor
M.D. student, Univ. Nevada, Reno

2004-2005 (on medical leave Fall 04, sabbatical Spring 05)**:**

Michelle Keese (MoBio) — rab26 as a GDI interactor
M. D. student, U Chicago

Naveen Sangji (MoBIo) — Gint3 as a GDI interactor
M.D. student, Harvard HST program

Alexis Moore (Bio) — The 43C GDI interactor
D.D. S. student, Harvard Dental School

2005-2006:

Dan Holtzman (MoBio) — Molecular analysis of GDI-Gint3 interaction
M.D. student, UCSF

Erin Kahle (MoBio) — Gint3 expression and cellular localization
Research lab technician, NIH

Anne Kirk (Neuroscience) — Comm phenotype in GDI mutants
M.D. student, UTSW medical school

David Levine (Biology) — Analysis of mutant GDI proteins in flies
High school science teacher, Chicago, for 2 years
M.D. student, Washington University in St. Louis

Amy Rapp (Biology) — Molecular analysis of Comm-GDI interaction
M. D. student, UTexas

2006-2007:

Jonathan Lee (MoBio) — Using yeast systematic genetic array to find GDI interactors
M. D. student, UChicago

2007-2008: (on sabbatical Spring 08)

Palak Amin (MoBio) — Making tagged GDI transgenes in *Drosophila*
NIH post-bac research, applying to Biochem PhD programs

Simiao Amy Li (MoBio) — GFP-tagging Gint3 in *Drosophila*
Applying to medical school

2008-2009:

Reed Ayabe (MoBio) — FRET analysis of Gint3-GDI interactions in *Drosophila*

Connie Cheng (MoBio) — Gint3, GDI and degradation and p97 interactions in *Drosophila*

Amelia Nordmann (Biology) GDI-Gint3 interactions using QCM-D and DPI

2009-2010:

Kimberly Chau '10	In situ studies of Gint3 embryonic expression
Ben Kozak '10	Mass spec analysis of Gint3 interactors
Erica Jones '10 (Scripps)	Hemocyte behavior in Gint3 mutants

Other Research Students:

1997-1998:

Alice Chen	Mapping AL289 Ph.D. student in Biology at Johns Hopkins University, Weintraub Prize recipient 2005, post-doc with Doug Melton, Harvard	(REU)
John Cupp	Making FRT GDI null mutant constructs	(REU)
Kenji Morimoto	Germ-line GDI clones	(REU)
Christina Tsou	Germ-line *quartet* clones	(REU)

Summer 1998

Stacy Alvares	Yeast two-hybrid system to identify GDI interacting proteins	(Hughes)
Kenji Morimoto	Proteins that interact with GDI	(REU)
Devin Johnsen	Mapping AL289, a new female sterile mutant M.S. in Animal Science, Cal Poly, Pomona; D.V. M., UC Davis, in private vet practice, Oakland CA	(SURP)
Vinoy Prasad	Site-directed mutagenesis to put GDI mutants into an expression vector Applying to medical school 2002-2003	(REU)

1998-1999:

Mindy Miner	Sequencing new open reading frames in *quartet* mutants Currently, Ph.D. student in epidemiology at UWash	(REU)
Devin Johnsen	Mapping AL289 using P element mediated male recombination	(REU)
Kenji Morimoto	Proteins that interact with GDI	(credit)
Dennis Wu	Constructing stocks for mutagenic screens	(volunteer)
April Kinkade	Constructing stocks for mutagenic screens	(volunteer)
Song Ahn	Constructing stocks for mutagenic screens	(volunteer)
Caroline Kuo	Constructing stocks for mutagenic screens M. D., USC	(volunteer)
Frances Chiu	Constructing stocks for mutagenic screens M. D., UCLA	(volunteer)

Summer 1999:

Tom Vasquez	Confirming FRT GDI null mutant constructs M.S. in organic chemistry, UCIrvine, Chem Lab Coordinator, Pomona College	(CAMP)
Selena Cataldo	*quartet* cDNAs M.D., Northwestern	(REU)
Devin Johnsen	Mapping AL289 using P-element mediated male recombination	(HHMI)
Dennis Wu	Constructing stocks for mutagenic screens	(NSF grant)
Song Ahn	Constructing stocks for mutagenic screens	(NSF grant)
Caroline Kuo	Constructing stocks for mutagenic screens	(NSF grant)

Fall 1999:

Tom Vasquez	Confirming FRT GDI null mutant constructs	(NSF grant)

April Kinkade	Deficiency screen for GDI interacting genes (credit), Ph.D. student ,Biology, UC San Diego	

Spring 2000:

April Kinkade	Deficiency screen for GDI interacting genes	(NSF grant)

Summer 2000:

Terri Abe	Screen for dominant GDI enhancers M. D., USC	(REU)
Ryan Skophammer	P screen for pupal lethals Currently, Ph.D. student, Mol. Biol., UCLA	(SURP)
Sumire Kawai	Deficiency screen for GDI interacting genes M. D., UCSD, currently intern Cedars Sinai	(SURP)
Randy Gastwirt	Proteins that bind to GDI Currently, Ph.D. student in Biochemistry, UCSD	(Hughes)
Devin Johnsen	Mapping AL289	(NSF grant)
Dennis Kang	Fertilization and *nanos* mRNA localiztion	(NSF grant)

Fall 2000:

Sara Turner	Glue secretion in GDI mutants Currently Ph.D. student in Biology, Purdue Univ.	(REU)
Octav Constantinescu	Larval serum protein secretion in GDI mutants M.D. student, UCLA	(NSF grant)
Randy Gastwirt	Proteins that bind to GDI	(NSF grant)
Ryan Skophammer	P screen for pupal lethals	(NSF grant)
Terri Abe	Screen for dominant GDI enhancers	(NSF grant)

Spring 2001 (on sabbatical):

Sara Turner	Glue secretion in GDI mutants	(NSF grant)
Ryan Skophammer	P screen for pupal lethals	(NSF grant)
Terri Abe	Screen for dominant GDI enhancers	(NSF grant)
Sumire Kawai	Deficiency screen for GDI interacting genes	(NSF grant)

Summer 2001:

Ryan Skophammer	Gene trap screen for GDI interactors	(SURP grant)
Maria Christenson	Mapping the AL289 interactor	(SURP grant)
Sumire Kawai	Deficiency screen for GDI interactors	(SURP grant)

Fall 2001:

Janetta Iwanicki	Female sterile phenotype of a 26A GDI interactor	(REU)
Mika Izutsu	Female sterile phenotype of a 35C GDI interactor	(NSF grant)

Spring 2002:

Janetta Iwanicki	Female sterile phenotype of a 26A GDI interactor	(NSF grant)
Laurence Meloty-Kappela	Mapping 78A GDI interactor	(REU)

Summer 2002

Janetta Iwanicki	Female sterile phenotype of a 26A GDI interactor	(Beckman fellowship)
Laurence Meloty-Kappela	Mapping 78A GDI interactor	(REU)
Shannon Wolff	Mapping AL289	(SURP)
Steve Wylie	GST-GDI pull-down	(SURP)

Fall 2002:

Steve Wylie	GST-GDI pull-down	(REU grant)

Megha Shah	Female sterile phenotype of 49F interactor M.D. student, U. Chicago	(NSF grant)
Jonder Ho	Complementation of new GDI alleles	(NSF grant)
Naveen Sangji	GDI two-hybrid interactor	(NSF grant)

Spring 2003:

Ryan Takeshita	Sequencing new GDI alleles	(REU grant)
Naveen Sangji	Sequencing a GDI interactor	(NSF grant)

Summer 2003:

Naveen Sangji	Sequencing a GDI interactor	(SURP-Irvine grant)
Megha Shah	Female sterile phenotype of 49F interactor	(Irvine Faculty grant)
Michelle Keese	rab26 as a GDI interactor	(Irvine Faculty grant)
Jesse Mays	Complementation of new GDI alleles	(NSF grant)
Shannon Wolff	71F GDI interactor	(NSF grant)
Steve Wylie	GST-GDI pull-down	(SURP grant)
Janetta Iwanicki	35D interactor	(Beckman fellowship)

Fall 2003:

Megha Shah	Female sterile phenotype of 49F interactor	(NSF grant)
Michelle Keese	rab26 as a GDI interactor	(NSF grant)
Jesse Mays	Complementation of new GDI alleles	(NSF grant)
Paul Robustelli	Identifying the 49F interactor	(for credit)
Shalini Lal	Pheromone synthesis in the 35D interactor	(NSF grant)

Spring 2004:

Daniel Holtzman	GDI-GDI interactions in yeast 2 hybrid	(for credit)
Paul Robustelli	Making a rab-null GDI Ph.D. student, Cambridge (England) University, Gates-Cambridge Fellowship, NSF predoctoral graduate research fellowship.	(for credit)

Summer 2004:

Michelle Keese	rab26 as a GDI interactor	(Merck fellowship)
Naveen Sangji	Gint3-GDi interactions	(NSF grant)
Amy Rapp	Comm-GDI interactions	(SURP grant)
Alexis Moore	43C GDI interactor	(SURP) grant
Dan Holtzman	GDI-GDI interactions in yeast 2 hybrid	(NSF grant supplement)

Fall 2004 (on medical leave to have both hips replaced):

Dan Holtzman	GDI-GDI interactions in yeast 2 hybrid	(for credit)
Amy Rapp	Comm-GDI interactions	NSF grant

Spring 2005 (on sabbatical):

Dan Holtzman '06	GDI-GDI interactions in yeast 2 hybrid	(for credit)
Eric Otieno '07	Putting Gint3 into a P vector	(NSF grant)
Palak Amin '08	Putting AK307 into Y2H	(NSF grant)
Amy Rapp '06	Comm-GDI interaction	(for credit)

Summer 2005

Michelle Keese '05	rab26 and GDI function	(SURP)
Naveen Sangji '05	Gint3-GDI pull-downs	(NSF grant)
Jonathan Lee '07	35D GDI interactor	(NSF supplement)
Anne Kirk '06	Comm phenotype in GDI alleles	(NSF supplement)
Dan Holtzman '06	GDI-Gint3 interaction in MMIII	(Beckman Fellowship)

Amy Rapp ’06	Comm-GDI interaction	(NSF grant)

Fall 2005

Palak Amin '08	Cloning AK307 into pLexA	(NSF grant)
Jonathan Lee '07	Mapping the j5 GDI mutant	(for credit)
Eric Otieno '07	Cloning Gint3 into pUASp	(NSF grant)
Michael Lawson '09	Which part of Gint3 binds GDI	(volunteer)

Spring 2006

Palak Amin '08	Cloning AK307 into pLexA	(NSF grant)
Simao Li '08	Making a rab-null GDI mutant	(dept. support)
Michael Lawson '09	Which part of Gint3 binds GDI	(volunteer)
Prashant Kotwani '09	Putting Gint3 fly mutants into marked background	(volunteer)

Summer 2006

Palak Amin '08	Tagging GDI and Gint3 in flies	SURP
Simiao Li '08	Tagging Gint3 with GFP	SURP
Mike Lawson '09	Bioinformatics of Gint3 and rabs	HHMI
Dan Holtzman '06	Interactions of GDI and Gint3	Beckman

Fall 2006

Palak Amin '08	Tagging GDI and Gint3 in flies	(for credit)
Simiao Li '08	Tagging Gint3 with GFP	(for credit)
Paul Fields '09	Sequencing GDI alleles	(for credit)
Jasmine Walia '09	GDI in Y2H	(for credit)

Spring 2007

Palak Amin '08	Tagging GDI and Gint3 in flies	(for credit)
Simiao Li '08	Tagging Gint3 with GFP	(for credit)
Paul Fields	Sequencing GDI alleles	(for credit)

Summer 2007

Palak Amin '08	Tagging GDI and Gint3 in flies	HHMI
Simiao Li '08	Tagging Gint3 with GFP	SURP
Connie Cheng '09	QCM-D on GDI and Gint3	Rose Hills
Kimberly Chau '10	Fly segmentation strains for Bio169	Steller

Fall 2007

Connie Cheng '09	QCM-D on GDI and Gint3	(for credit)
Reed Ayabe '09	Gint3 Antibody and Immunostaining	(for credit)
Kim Chau '10	Gint3 RNAi flies	(for credit)

Spring 2008 (on sabbatical)

Connie Cheng '09	Gint3 function	(for credit)
Reed Ayabe '09	Gint3 Antibody and Immunostaining	(for credit)
Kim Chau '10	Gint3 RNAi flies	(for credit)
Amy Briggs '10	Overexpression of Gint3	(dept. support)

Summer 08

Palak Amin ‘08	Tagging GDI and Gint3 in flies	Dean’s Office and Sigma Xi
Reed Ayabe ‘09	Localization of GFP-Gint3	HHMI
Kimberly Chau ‘10	Gint3 RNAi flies	SURP
Amelia Nordmann ’09	GDI-Gint3 interactions and QCM-D	Merck

Fall 08

Kimberly Chau '10	Gint3 RNAi flies	(for credit)
Bruke Tedla '11	GDI and choline kinase interaction	(for credit)
Janet Ma '11	GDI and diablo interaction	(for credit)

Spring 09

Kimberly Chau '10	Gint3 RNAi flies	(for credit)
Bruke Tedla '11	Gint3 mutants	(for credit_
Janet Ma '11	Hemocytes in GDI mutants	(for credit_
Vincent Chan '11	quartet sequencing	(volunteer)
Christine Kho '11	Cloning COOH-Gint3	(for credit)
Ben Kozak -10	Gint3 interactors in flies	(for credit)

Summer 09

Kimberly Chau'10	Expression of Gint3	SURP
Ben Kozak '10	Gint3 interactor in flies	Beckman
Christine Kho '11	QCM-D and COOH-Gint3	Merck
Janet Ma '11	Endocytosis in GDI hemacytes	(for credit)
Bruke Tedla '11	5307 and SAL3 rescue	(for credit)
Vincent Chan '11	GDI modification	(volunteer)

Fall 09

Bruke Tedla '11	Gint3 mutants	(for credit)
Vincent Chan '11	GDI modification	(for credit)
Gabriel Friedman '12	Hemocytes in GDI mutants	(for credit)

In addition to these research students, several students are involved each year in support activities in the lab.

Library Senior Thesis Students (reader):(1997-1998) P. Koh (Neurobiology), S. Lehto (Molecular Biology), M. Wu (Molecular Biology), A. Chen (Biology); (1998-1999) A. Huang (Neurobiology), E. Scheppke (Molecular Biology), M. Reiss (Biology); (1999-2000) D. Senning (MoBio); (2000-2001-on sabbatical spring semester) K. Frank (Bio), R. Gastwirt (Bio); (2001-2002) C. Ma (Bio), A. Bell-Hibbs; (2002-2003) A. Hahn (MoBio); (2008-2009) Lauren Lederle (Neuro) (Total = 13)

Advisor to (Spring 1998):11 students
(1998-1999): 28 students
(1999-2000): 25 students
(2000-2001): 21 students
(2001-2002): 16 students
(2002-2003): 15 students
(2003-2004): 17 students
(2004-2005): 15 students
(2005-2006): 10 students (plus 4 from L. Seligman, who was on sabbatical)
(2006-2007): 16 students (plus 25 from Hoopes, Hanzawa and Levin who were on sabbatical)
(2007-2008): 20 students
(2008-2009): 23 students
(2009-2010):

ADMINISTRATIVE AND SERVICE ACTIVITIES AT POMONA COLLEGE

1997-1998 Member, Biology Department Review Committee.
1998-1999 Member, Pomona College Admissions Committee
Biology Department Bulletin Board Person
1999-2000 Biology Department Library Liaison
Biology Department Bulletin Board Person
Member, Biology Department New Building Committee
2000-2001 Biology Department Library Liaison
Biology Department Bulletin Board Person
Womens' Commission (Fall only, on sabbatical in Spring)
Member, Biology Department New Building Committee
2001-2002 Biology Department Bulletin Board Person
Member, Biology Department New Building Committee
Member, Pomona College Medical Sciences Committee
2002-2003 Biology Department Bulletin Board Person
Member, Biology Department New Building Committee
Member, Pomona College Faculty Personnel Committee
Member, Watson Fellowship Committee
Member, Search Committee for Biology Department Chair, Harvey Mudd College
2003-2004 Biology Department Bulletin Board Person
Seaver South Building Chair
Member, Biology Department New Building Committee
Member, Pomona College Faculty Personnel Committee
Member, Computational Biology Search Committee
2004-2005: On medical leave, Fall 04, to have both hips replaced.
On sabbatical, Spring 05
HHMI summer student coordinator
2005-2006: Biology Department Chair
Member, Alumni Reunion Planning Committee
HHMI summer student coordinator
2006-2007: Biology Department Chair
HHMI summer student coordinator
Beckman Grant Co-PI, with Dan O'Leary
2007-2008: On sabbatical Spring 08
Watson Fellowship Committee
HHMI summer student coordinator
Beckman Grant Co-PI, with Dan O'Leary
Pomona representative to HHMI diversity conference, Jan. 08 in Chevy Chase, MD
Member, Seaver South Renovation Steering Committee
Freshman Book Discussion Leader
2008-2009 Watson Fellowship Committee
HHMI summer student coordinator
Member, Seaver South Renovation Steering Committee
Beckman Grant PI
Biology Department Senior Thesis Czar
Harassment and Discrimination Grievance Committee
Faculty Participant, Orientation Adventure Sea Kayaking Trip
Freshman Book Discussion Leader
2009-20010 Watson Fellowship Committee
HHMI summer student coordinator
Beckman Grant PI,
Biology Department Senior Thesis Czar
Harassment and Discrimination Grievance Committee

TEACHING AND MENTORING ACTIVITIES AT WASHINGTON UNIVERSITY

Thesis Students:

Janelle Jakubowski, 1995-1997, (transferred to Kerry Kornfeld's lab at Wash. U. when I moved to Pomona College. Finished Ph.D. October 2001).

Trina Sarafi, 1994-1996. M.S., Washington University, in May 1997 (Transferred 12/96 to Brandeis Univ. for personal reasons, did Ph.D. with P. Sangupta, May 2001).

Joseph E. Zahner, 1987-1992. Ph.D., 1992, Johns Hopkins University (Postdoc with J. Pringle, UNC, 92-94, postdoc with K Blumer, WashU 94-95, Assistant Professor of Biology, St. Louis University, St. Louis, MO 96-00, left to start a biotech start-up company)

Courses:

1. Coursemaster, Special Topics in Developmental Biology: Advanced *Drosophila* Developmental Genetics (20 hrs/year), 1994-1996.
2. Coursemaster, Cell Motility and the Cytoskeleton Journal Club 1992-1994
3. Coursemaster, Developmental Biology Journal Club 1992-1994
4. Lecturer, Advanced Genetics (8 hrs/year) 1991-1997
5. Lecturer, Graduate Developmental Biology (10.5 hrs/year)1992-1994, 1996
6. Lecturer, Molecular Cell Biology (Graduate Students) (6 hrs/year) 1990-1992.
7. Lecturer, Molecular Cell Biology (Medical Students) (3 hrs/year) 1990-1993
8. Discussion Leader, Ethics in Scientific Research (12 hrs/year) 1996.
9. Discussion Leader, Molecular Cell Biology (Graduate Students) 8 hrs/year, 1993, 1996.
10. Discussion leader (with J. Cooper), 1st year Medical Student Minicourse on Human Genetic Diseases of the Cytoskeleton (12 hrs/year) 1991 and 1992.

Qualifying Exam Committee for: (1992) M. Hermiston, J. Wu (Chair), L. Wilson, A. Jones; (1993) T. Hesman, B. Hug, D. MacIvor, D. McEwen, S. Srinivasa; (1994) C. Colledge (Chair), M. Kankel (Chair), H. Holemon, T. Meier, U. DeSilva, M. Arlt, T. Griffith, D. Wang, M. Wielgosz, S. Trejo, K. Wang, P. Golin, R. Emmons, J. Han, M. Li, R. Truong; (1995) C. Fu, A. Deora, S. Gary, K. Iovine, R. Murphy, R. Kundra; (1996) S. Tanenbaum (Chair), S. Gorski (Chair), E. Garabedian (Chair); (1997) A. Brands, T. Stokes, K. Moulder, A. Reddy. (Total=38)

Thesis Committee for: P. Jay (Ph.D., 1994), J. Waddle (Ph.D., 1994), V. Mermall (Ph.D. 1994), A. Jones (Ph.D., 1995) J. Dobrowolsky, (Ph.D., 1996), L. Wilson Berry (Ph.D., 1998), C. Colledge (Ph.D., 1998), R. Emmons, T. Hesman (Ph.D., 1998), S. Ford (M.S., 1997), R. Murphy (Ph.D. 1998), R. Huber. (Total=12)

Graduate Rotation Students: (1990) J. Hiken; (1991), L. Strelow; (1992) R. Kundra; (1993) M. Kankel, M. Arlt, S. Gary, C. Manahan, (1994) T. Sarafi, W. Lyon, R. Bannerjee, A. Brands, S. Gorski; (1995) J. Jakubowski, P. Kulcharyk, W. Vukovich (exchange student from Regensburg University, Germany), A. Schaefer; (1996) T. Rakhra, M. Vogel (exchange student from Regensburg University, Germany). (Total=18)

Undergraduate Research Students: *WashU students*: W. Lewis, 1992-1995; S. Tanenbaum, 1992-1993; Nicole Nguyen, 1994-1995; D. Sun, 1996-1997; M. Boonyapredee, 1996; (Total =5)
non-WashU students: A. Adams (Whitman College), summer 1990; A. Jellin (Evergreen State College), summer 1991; M. Trevathan (Duke University), summer 1995; S. Mehta (Univ. of Pennsylvania), summer 1996. (Total=4)

Undergraduate Honors Thesis Student: Sara Tanenbaum, 1992-1993. B. A. with honors, Washington University, 1993 (Ph.D. 2000, Washington University with R. Cagan, currently works at Exelexis, a biotech company in Northern California).

Post-doctoral Fellow: Dr. Nancy Kravit, 1990-1992.

ADMINISTRATIVE AND SERVICE ACTIVITIES AT WASHINGTON UNIVERSITY

Graduate Admissions:
1. Chairman, Graduate Admissions Committee A, Div. of Biology and Biomedical Sci., 1994-1995 and 1995-1996 (Two full "seasons"). This was a 12-person committee that was one of two committees that considered applicants for admission to the Ph.D. programs for 7 sub-programs within the single, inter-departmental umbrella biomedical Ph.D. program at WashU. Total enrollment in the program was about 500 students, with a total of about 700 applications each year.
2. Graduate Admissions China Initiative, March 1996. One of two faculty sent by Washington University to interview students in Shanghai and Beijing for admission to graduate study in the Division of Biology and Biomedical Sciences
3. Committee member, Graduate Admissions Committee A, Div. of Biology and Biomedical Sci. 1992-1996 (Four full "seasons").

Developmental Biology Graduate Program and related activities:
1. Co-director, Developmental Biology Summer Undergraduate Research Program, 1995-1997 (Co-Principal Investigator, with P. Taghert, P.I., of the NSF-REU grant that funded this program through 1998). This was a summer research internship program that sponsored about 20 students per summer. In addition to research, the program sponsored weekly ethics and journal club discussions and workshop introductions to different developmental organisms and techniques.
2. Committee member, Developmental Biology Graduate Program Steering Committee 1991-1996
3. Committee member, Admissions Committee, Developmental Biology Summer Undergraduate Research Program 1990-1995
4. Co-organizer, Developmental Biology Graduate Program Mini-symposium, 1993 and 1994.
5. Committee member, Graduate Recruiting Committee, Div. of Biology and Biomedical Sci. 1992-1993
6. Faculty advisor, Cell and Molecular Graduate Program Student Retreat Organizing Committee, 1996
7. Faculty advisor, Developmental Biology Graduate Program Student Retreat Organizing Committee, 1997.

Other:
Committee member, Compton Scholarship Committee for undergraduate scholarships (Hilltop campus), Spring 1996.

TEACHING, MENTORING, AND ADMINISTRATIVE ACTIVITIES AT JOHNS HOPKINS UNIVERSITY

Coursemaster and sole faculty member in charge for Experimental Molecular and Cellular Biology Laboratory I and II, 1986-1989. This was a two-semester sequence required for sophomore and junior biology majors and consisted of 13 different laboratory exercises per semester. The labs included exercises such as ion-exchange chromatography, thin-layer electrophoresis, enzyme kinetics and Western blotting. The course had a typical enrollment of

200-250 students per semester and a staff of 14-18 graduate teaching assistants and 4-5 work-study students. *The Owen teaching award was given to me by the 1988 graduating senior class for my role in this course*.

Undergraduate research students: *JHU students:* J. Holland, 1985-1989; M. Takeno, 1986; J. Clark, 1986-1988; M. Goldstein, 1986-1988; J. Kang, 1984-1986; D. Lindsay, 1986-1988. (Total=6)

Goucher students : K. Kersbergen (1986); S. A. Brown (l987); S. E. Brown (l988); A. O'Meara (1988). (Total = 4)

Graduate rotation students: (1986) J. Miner, T. Burn; (1987), B. Peculis, J. Zahner, J. Macke. (Total=5)

Committee member, Pre-health careers advising committee, 1987-1989.

Faculty advisor to 40 sophomore, junior and senior biology majors, 1986-1989.

TEACHING ACTIVITIES AT GOUCHER COLLEGE

Coursemaster and sole lecturer, Molecular Genetics (40 hrs/semester), Fall 1985. This was an advanced elective for juniors and seniors.

Coursemaster and sole lecturer, Genetics, (40 hrs/semester), Spring 1986. This was a required course for sophomore biology majors.

INVITED SEMINARS AND TALKS

Invited speaker, Blue Room Talk Series, Pomona College, Oct. 2008
Invited seminar speaker, Keck Graduate Institute, Claremont, March 2008
Invited seminar speaker, Pomona College, HHMI/HMC summer seminar series, June 21, 2006.
Invited panel speaker, UC Irvine Graduate Careers Workshop, Oct. 2005
Invited seminar speaker, Department of Biochemistry, St. Louis University School of Medicine, St. Louis MO, February 2005
Invited panel speaker, Caltech Careers Symposium for grad students, Pasadena CA, 2003
Invited panel speaker, Panel on Drosophila research at Primarily Undergraduate Institutions, Undergraduate teaching workshop, National Drosophila Research Conference, Washington DC, March 2001
Invited seminar speaker, Developmental Biology Group, Univ. of California, Irvine, 2001
Invited seminar speaker, Dept. of Biology, California State University, Fullerton, 2001
Invited speaker, Southwest Drosophila Research Meeting, Irvine, CA, June 1998.
Invited speaker, "Frontiers of Biology", a symposium honoring the retirement of Professor Ann Lacy, Goucher College, Towson MD, April 1998.
Invited panel speaker, "Teaching and Research at Primarily Undergraduate Institutions," National Drosophila Research Conference, March 1998.
Invited seminar speaker, Dept. of Biology, Harvey Mudd College, 1997
Invited seminar speaker, University of Cayey, Cayey, Puerto Rico, 1997
Invited seminar speaker, Department of Biology, St. Louis University, 1997
Invited seminar speaker, University of Cayey, Cayey, Puerto Rico, 1996
Invited minisymposium speaker, Am. Soc. for Cell Biology meeting 1994
Invited seminar speaker, Drosophila Discussion Group, St. Louis University 1994
Invited seminar speaker, Dept. of Biology, Wright State University, Dayton, OH 1994
Invited seminar speaker, Dept. of Biology, Washington University, St. Louis, MO 1993
Invited speaker, FASEB conference on GTP binding Proteins and Vesicle Trafficking 1992

Invited seminar speaker, Dept. of Cell Biology, Washington University School of Medicine, St. Louis, MO 1992
Invited seminar speaker, Dept. of Biology, Univ. of Michigan, Ann Arbor, MI 1990
Invited seminar speaker, Dept. of Biology, Brooklyn College, Brooklyn, NY 1987
Participant, Molecular Membrane Biology Gordon Research Conference 2005
Participant, Developmental Biology Gordon Research Conference 2005
Participant, FASEB conference on mRNA transport 1994
Participant, Developmental Biology Gordon Research Conference 1993
Participant, FASEB meeting on ras GTPases 1993

PEER REVIEW ACTIVITIES

Panelist, NSF panel on Graduate Research Fellowships, February 2003, February 2004, February 2005 (Chair of Biology and Developmental Biology Panel), February 2006 (Chair of Microbiology, Developmental Biology and Computational Biology Panel), February 2007 (Chair of Genetics and Evolutionary Biology Panel), February 2008 (Molecular and Developmental Biology), February 2009 (Molecular and Developmental Biology).
Panelist, NSF panel on Cellular Organization, October 2002; May 2003; October 2003.
Panelist, NSF panel on Course, Curriculum, and Laboratory Instruction, July 2001.
Panelist, NSF panel on Instructional Materials Development for Secondary School Science, July 1992, January 1993, July 1993, January 1994, July 1994.
Panelist, NSF panel on Research Opportunities and Career Advancement for Women (Division of Integrative Biology and Neuroscience), March 1993
Reviewer, NSF molecular and cellular biology program, 1992, 1996, 1999, 2000, 2008; mechanismsof animal development program, 1994, 1996; Developmental Neuroscience, 2002.
Reviewer, Ohio Cancer Research Associates, 1995.
Reviewer for Genetics and for Cell Motility and the Cytoskeleton, 1992; for Gene, 1996.
Textbook Reviewer for:
Genetics by R. Brooker, Benjamin/Cummings Press, 1999
Genetics by P. Russell . Cummings, 2001
Genetics by Snustad and Simmons , Wiley, 2001

OTHER PROFESSIONAL ACTIVITIES

Tenure reviewer for University of Richmond, VA, August 2008.

Tenure reviewer for Dickinson College, Carlisle, PA December 2007.

Tenure reviewer for Monmouth University, New Jersey, Oct. 2007.

Committee member, external review committee for Biology Department Review, University of San Francisco, April 2007

Committee member, Masters Thesis in Biology for Carlos Rosales, at Cal Poly Pomona, March 2005.

Co-organizer and panel participant, Panel on Drosophila research at Primarily Undergraduate Institutions,Undergraduate teaching workshop, National Drosophila Research Conference, Washington DC, March 2004

Session chair, Cell Biology and the Cytoskeleton Platform Session, National Drosophila Research Conference, San Diego, CA April 2002.

PROFESSIONAL SOCIETIES AND ORGANIZATIONS:
Society for Developmental Biology
Genetics Society of America
American Society for Cell Biology
American Association for the Advancement of Science
Project Kaleidoscope Faculty 21

PROFESSIONAL DEVELOPMENT
Pac 4 Workshop, Pomona College 1998
Teaching workshop on classes of 20-30, Pomona College 1999
Project Kaleidoscope Faculty 21 National Assemblies, Chicago, September 1998; Washington DC, October 1999; Tucson, Arizona, December 2000.
Workshop on technology in the classroom, Pomona College, June 1999
Workshop on teaching Developmental Biology laboratory, Univ. of Maine Marine Lab, Damariscotta, Maine, June 1999
Workshop on using Drosophila in the Developmental Biology Laboratory, Univ. of Maine Marine Lab, Damariscotta, Maine, June 2001
Yeast Genetics and Genomics Course, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY August 2006

COMMUNITY OUTREACH ACTIVITIES:
Invited speaker to Mt. Baldy Group of the Angeles Chapter of the Sierra Club, Claremont CA, on the environmental aspects of the R.C. Seaver Biology Building, July 2005
Science Fair Judge for the Monsanto Scholarship (awarded to the best 12th grade entrants)St. Louis Science Fair, St. Louis, MO 1993-1997.
Guest teacher, Riverview Gardens Middle School, Florissant, MO October 1995
Guest teacher, Gateway Middle School, St. Louis, MO October 1996

PUBLICATIONS

Refereed Publications:

1. Cheney, C. M. and J. W. Lash. 1981. Diversification within embryonic chick somites: Differential response to notochord. Devel. Biol. 82: 288-298

2. Cheney, C. M. and A. Shearn. 1983. Developmental regulation of imaginal disc proteins: Synthesis of a heat shock protein under non-heat shock conditions. Devel. Biol. 95: 325-330.

3. Ostrovsky, D., **C. M. Cheney**, A. W. Seitz, and J. W. Lash. 1983. Fibronectin distribution during somitogenesis in the chick embryo. Cell Differentiation 13: 217-223.

4. Lash, J. W., A. W. Seitz, **C. M. Cheney**, and D. Ostrovsky. 1984. On the role of fibronectin during the compaction stage of somitogenesis in the chick embryo. J. Exp. Zool. 232:197-206.

5. Cheney, C. M. and J. W. Lash. 1984. An increase in cell-cell adhesion in the segmental plate results in a meristic pattern. J. Emb. Exp. Morph. 79:1-10.

6. Cheney, C. M., K. G. Miller, ***T. J. Lang***[*], and A. Shearn. 1984. Specific protein modifications are altered in a temperature-sensitive *Drosophila* mutant. Proc. Nat. Acad. Sci. 81: 6422-6426.

7. Simcox, A. A., **C. M. Cheney**, E. Hoffman, and A. Shearn. l985. A deletion of the 3' end of the *Drosophila* hsp70 gene increases the stability of the mutant mRNA during recovery from heat shock. Molec. Cell. Biol. 5: 3397-3402.

8. Cheney, C. M. and T. J. Lang. l986. Defects in protein modification precede developmental defects in l(3)c21RRW630, a temperature-sensitive *Drosophila* developmental mutant. Devel. Biol. 114: 43-41.

9. Cheney, C. M. and T. J. Lang. l988. Developmental and protein modification defects caused by mutations in the *Drosophila* gene, *l(3)c21R*. Devel. Biol. 130: 551-557.

10. Zahner, J. E. and **C. M. Cheney.** 1990. *quartet* : a *Drosophila* developmental mutation affecting chromosome separation in mitosis. Devel. Gen., 11:27-40

11. Zahner, J. E. and **C. M. Cheney**. 1993. A *Drosophila* homolog of bovine smg p25a GDP dissociation inhibitor (GDI) undergoes a shift in isoelectric point in the developmental mutant, quartet. Molec. Cell. Biol. 13:217-227.

12. Cheney, C. M., N. G. Kravit, and J. W. Verbsky. 1993. A new myosin I gene in *Drosophila*. Bioc. Biop. Res. Comm. 3:1280-1288.

13. Garrett, M. D., A. K. Kabcenell, J. E. Zahner, T. Sasaki, Y. Takai, **C. M. Cheney** and P. J. Novick. 1993. Interaction of Sec4 with GDI proteins from bovine brain, *Drosophila melanogaster* and *Saccharomyces cerevisiae*: Conservation of GDI membrane dissociation activity. FEBS Letters 331:233-238.

14. Garrett, M., J. E. Zahner, **C. M. Cheney** and P. Novick. 1994. GDI1 encodes a GDP dissociation inhibitor that plays an essential role in the yeast secretory pathway. EMBO J. 13:1718-1728.

15. Ricard, C. S., J. M. Jakubowski, J. W. Verbsky, M. A. Barbieri, ***W. M. Lewis****, G. E. Fernandez, M. Vogel, ***C. Tsou****, ***V. Prasad**** P. Stahl, G. Waksman and **C. M. Cheney**. 2001. *Drosophila* rab GDI mutants show developmental defects but normal rab membrane extraction. Genesis: The Journal of Genetics and Development 31:17-29.

Book Chapters:

1. Lash, J. W. and **C. M. Cheney**. 1982. "Diversification within embryonic chick somites: in vitro analysis of proteoglycan synthesis", in Differentiation in vitro : British Society for Cell Biology Symposium 4, M. M. Yeoman and D. E. S. Truman, eds, Cambridge University Press, pp.193-206

2. Ruderman, J. V., T. R. Tansey, E. T. Rosenthal, T. Hunt and **C. M. Cheney**. 1983. "Spatial and temporal aspects of gene expression during *Spisula* embryogenesis", in Time, Space and Pattern in Embryonic Development, W. R. Jeffery and R. A. Raff, eds., Alan R. Liss, Inc., New York, pp. 49-63.

Manuscripts in preparation:

1. ***Palak P. Amin, Simiao Amy Li, Connie Y. Cheng, Reed Ayabe,*** Alex Chien-You Chen[1], ***Brian E. Richardson****, ***Katherine L. Ayres****, ***Daniel J. Holtzman****, ***Naveen F. Sangji****, ***Alexis K. Moore****, ***Erin Kahle****, ***Paul Robustelli****, ***Michael Lawson*, Michelle Keese*, Alyssa Cope****,

Andre Cavalcanti, Daniel Martinez and Clarissa M. Cheney Rab GDP Dissociation Inhibitor (GDI) interacts with Gint3, a PUG and UBX Domain protein. In preparation Biochemical and Biophysical Research communications.

2. ***Takeshita, R. A*, Levine, D. M. *, Mays, J.*, P. A. Fields *,*** H. Minye, J. Merriam and C. M. Cheney. Genetic analysis of *Drosophila* rab GDP dissociation inhibitor (GDI) mutations. In preparation for Genetics.

3. ***Keese M. L.* , L. Meloty-Kapella****, ***Wolff S. R. *, Johnsen, D. A. J. *, Kawai, S. **** and C. M. Cheney. Deficiency screen for GDI interactors. In preparation for Genetics.

****Undergraduate or alumni co-authors***

Meeting presentations:
For the past 20 years, I have attended and presented a poster or platform talk at two national scientific meetings each year (and sometimes at an additional meeting): the Annual Drosophila Research Conference and the annual meeting of the American Society for Cell Biology. In the last 5 years, I have brought Pomona students to some of these national meetings, where the students have presented their research in posters.