

Janice Ann Fischer
CV: revised May 2011

Personal Information

Birthdate/place: January 6, 1959 / New York City, New York, USA

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Research Interests

Molecular genetics of *Drosophila* development:

- The role of epsin-mediated membrane trafficking in cell communication
- The role of ubiquitin-mediated proteolysis in development and disease

Education

BS, 1981. Union College, Schenectady, NY. English/Philosophy; Biology/ Chemistry

PhD, 1988. Harvard University, Cambridge, MA. Biochemistry and Molecular Biology
Adviser: Dr. Tom Maniatis/ Thesis Topic: Regulation of *Drosophila Adh* gene expression

Postdoctoral Training - Molecular genetics of development

1988-1990. University of California at Berkeley, Berkeley, CA. Dr. Gerald M. Rubin

1991-1992. Whitehead Institute, M.I.T., Cambridge, MA. Dr. Ruth Lehmann

Employment

1/93-8/99. Assistant Professor of Zoology, The University of Texas at Austin

9/99-8/06. Associate Professor of Molecular Cell & Dev. Biology, The University of Texas at Austin

9/06-present Professor of Molecular Cell & Dev. Biology, The University of Texas at Austin

1/93-present Member of the Institute for Cellular and Molecular Biology, UT Austin

Fellowships

National Science Foundation Predoctoral Fellowship (1981-1984)

National Institutes of Health Predoctoral Training Grant Fellowship (1984-1987)

Helen Hay Whitney Postdoctoral Fellowship (1988-1991)

Howard Hughes Postdoctoral Research Fellowship (1991-1993)

American Cancer Society Junior Faculty Research Award (1996-1999)

ICMB Fellow, UT Austin (1998-2010)

Honors

Phi Beta Kappa Honor Society (1981)

Sigma Xi Science Honors Society (1981)

Graduated *magna cum laude* from Union College (1981)

George Catlin Award for Academic Excellence given by Union College (1981)

Session Chair at the *Drosophila* Neurobiology Meeting at Cold Spring Harbor (1997)

Plenary Session Speaker at the Annual *Drosophila* Research Conference (1998)

Principal speaker at the Lorne International Genome Conference in Lorne, Australia (1998)

Principal speaker at the Marconi Center *Drosophila* Conference in Bodega Bay, CA (2000)

Principal speaker at 27th Lineberger Cancer Center Symposium, Chapel Hill, NC (2003)

Principal speaker at 19th Aspen Cancer Conference, Aspen, CO (2004)

Invited to speak at Visual System Gordon Conference (2008)

Invited to be principal speaker at Athens Notch Meeting (2009)

Elected Heartland Regional Representative, *Drosophila* Board of Directors (2009)

Presented Sandler Award at 51st Annual *Drosophila* Conference in Washington DC (2010)

Memberships in Professional Societies

Genetics Society of America
American Society for Cell Biology
Society for Developmental Biology
American Association for the Advancement of Science

TEACHING AT THE UNIVERSITY OF TEXAS AT AUSTIN

Classroom Teaching

Organized Undergraduate Courses Taught

Fall 1993- ZOO 362*, Molecular Genetics (no TA)
Spring 1994- BIO 206, Structure and Function of Organisms (with W. Thompson and L. Butler)
Fall 1994- ZOO 362*, Molecular Genetics (no TA)
Spring 1995- BIO 206, Structure and Function of Organisms (with W. Thompson and L. Butler)
Fall 1995 - ZOO 362*, Molecular Genetics, TA: Tom Carroll
*Although it was not cross-listed as a graduate course, there were a large number of graduate students in ZOO 362.
Spring 1996 - ZOO 325, Genetics, TA: Kathleen Mosley
Fall 1996 - ZOO 325, Genetics, TA: Zhuoru Wu
Spring 1998 - ZOO 325, Genetics, TA: Angelica Cadavid
Spring 1999 - ZOO 325, Genetics, TA: Zhuoru Wu
Spring 2000 - ZOO 325, Genetics, TA: Brad Wagstaff
Spring 2000 - ZOO 325, Genetics, TA: Nicole Gerardo
Spring 2001 - BIO 325, Genetics, TA: Zhuoru Wu
Spring 2001 - BIO 325, Genetics, TA: Andrew Kenny
Spring 2002 - BIO 325, Genetics, TA: Erin Overstreet
Fall 2002 - BIO 325, Genetics, TA: Christina Robinson
Enrollment for BIO 325 is ~100 undergraduate students
(Due to a need for Faculty to teach BIO 325, in Spring 2000 and Spring 2001, I taught two separate classes of BIO 325 on my own each Spring semester - even though I had an ICMB Fellowship.)

Summer 2006 Session I – BIO325, Genetics
Summer 2006 Session II – BIO325, Genetics
Summer 2007 Session I – BIO325, Genetics
Summer 2007 Session II – BIO325, Genetics
Summer 2008 Session I – BIO325, Genetics
Summer 2008 Session II – BIO325, Genetics
Summer 2009 Session I – BIO325, Genetics
Summer 2009 Session II – BIO325, Genetics
Summer 2010 Session I – BIO325, Genetics
Summer 2010 Session II – BIO325, Genetics
Spring 2011- BIO325, Genetics; TA: Susan Banks
Summer 2011 Session I – BIO325, Genetics; TA: David Busch
Summer 2011 Session II – BIO325, Genetics; TA: Chintan Modi

Fall 2008 - NSC115 - Women in Natural Sciences Honors Program Seminar (with Ruth Buskirk)
Fall 2009 - NSC115 - Women in Natural Sciences Honors Program Seminar (with Ruth Buskirk)
Fall 2010 - NSC115 - Women in Natural Sciences Honors Program Seminar (with Ruth Buskirk)

Organized Undergraduate Courses Taught at UT Extension

Summer 2009, University Extension, BIO325, Genetics

Spring 2010, University Extension, BIO325, Genetics
Summer 2010, University Extension, BIO325, Genetics
Spring 2011, University Extension, BIO325, Genetics

Organized Graduate Courses Taught

Fall 1994 - MIC395E, Molecular Biology III. This course was organized by P. Gottlieb and D. Brown. I delivered two 75-minute lectures, entitled "Positional Information in Drosophila Embryogenesis", and formulated and graded two final exam questions.

Fall 1995 - MIC395E, Molecular Biology III. This course was organized by P. Gottlieb and D. Brown. I delivered two 75-minute lectures entitled "Positional Information in Drosophila Embryogenesis" and formulated two final exam questions.

Fall 1996 - MIC395E, Molecular Biology III. This course was organized by P. Gottlieb and D. Brown. I delivered two 75-minute lectures entitled "Positional Information in Drosophila Embryogenesis" and formulated two final exam questions.

Fall 1998 - MIC395E, Molecular Biology III. This course was organized by Phil Tucker. I will deliver two 75-minute lectures entitled "The Ubiquitin Proteasome Pathway."

Fall 2000 - MOL595C, Molecular Biology I. This course was organized by Phil Tucker and Bob Krug. I gave one 75-minute lecture entitled "The Drosophila Model System" and formulated one exam question.

Fall 2003 - BIO, MOL, CH395F, Genetics (Grad. Core Course) - with P. Macdonald, TA: Suk Ho Eun
Enrollment for BIO, MOL, CH 395F is ~80 graduate students

Fall 2004 – BIO, Mol, CH395F, Genetics (Grad. Core Course) – with P. Macdonald, TA: Suk Ho Eun
Enrollment for BIO, MOL, CH 395F is ~65 graduate students

I spent the Summer of 2004 recreating this course.

Fall 2005 – BIO, Mol, CH395F, Genetics (Grad. Core Course) – with P. Macdonald, TA: Suk Ho Eun
Enrollment for BIO, MOL, CH 395F is ~55 graduate students

Fall 2006 – BIO, MOL, CH395F, Genetics (Grad. Core Course) TA: Suk Ho Eun

Fall 2007 – BIO, MOL, CH395F, Genetics (Grad. Core Course) TA: Suk Ho Eun

Fall 2008 – BIO 395F GENETICS (Grad. Core Course) TA: Xuanhua Xie

Fall 2009 – BIO 395F GENETICS (Grad. Core Course) TA: Xuanhua Xie

Fall 2010 – BIO 395F GENETICS (Grad. Core Course) TA: Xuanhua Xie

Other Teaching Activities

Guest Lectures

Summer 1993: I wrote a new laboratory exercise for BIO 206 before I committed to teaching the course in an effort to help modernize the developmental biology aspects of the course. I helped to iron out the technical kinks in the exercise with course instructors.

Summer1, 1993 and 1994: Delivered a lecture on the Developmental Biology of Drosophila for Mary Ann Rankin's Summer Program for Community College Students.

Summer2, 1994: Delivered a lecture on the Developmental Biology of Drosophila for BIO206 while it was being taught by Linda Butler.

Fall 1994-MOL392. This course was organized by Eldon Sutton and taught also by professors campus-wide, each of whom gave one 30-minute lecture. I delivered a lecture about the research in my laboratory.

Fall 1995-ZOO 370C: Advanced Genetics. This course is taught by K. Artzt. I taught one week's worth of the course which included delivery of a 90-minute lecture entitled "Positional Information in Drosophila Embryogenesis".

Summer 1996: Helped Nan Hampton develop a new modern molecular genetics laboratory exercise for her course ZOO 125L; Genetics Laboratory

Fall 1996- MOL 390. This course was organized by Eldon Sutton and was taught by professors campus-wide, each of whom gave one 30-minute lecture. I delivered a lecture about the research in my laboratory.

Fall 1999 -BIO301C: The Brain Demystified. This course is organized by Steve Kornguth. It is a Neurobiology course designed for non-majors and I gave one 75 minute lecture about using *Drosophila* as a model system to study the development of the retina.

Fall 1999 - BIO 325: Genetics. Delivered two one-hour lectures about how to clone genes starting with mutants for David Hall's classes.

Undergraduates Supervised in my Laboratory for the Howard Hughes Summer Research Program

1993 - John Calanni (UT Austin)

1995 - Brian Windsor (UT Austin)

1996 - Kerrie Hall (UT Austin)

1996 - Chris Holden (Yale University)

1997 - Ari Molofsky (UT Austin)

1999 - Alexandra Porter (UT Austin)

University of Texas Undergraduate Students Supervised in my Laboratory for Course Credit (ZOO 371K; BIO 377K)

John Calanni: Spring 1993, Fall 1993.

Angelica Cadavid: Summer 1993; Fall 1993

Angelica graduated from the CMB program at UT Austin in 2000.

Chris Kahlden: Spring 1993, Fall 1993, Spring 1994.

Mark Stroman: Spring 1994

Jan Grimm: Spring 1994 (German Exchange Graduate Student)

Jennifer Hoelscher: Spring 1994

Angela May: Summer 1994

Brian Windsor: Summer 1994, Fall 1994, Spring 1995, Fall 1995, Spring 1996.

Brian obtained his PhD in the UT Molecular Biology Program.

Tija Carey: Fall 1994, Spring 1995

**Brian and Tija received an Undergraduate Research Fellowship (\$400.)*

Tija was the Dean's Honored Graduate in 1996.

Jay Hook: Spring 1995, Summer 1995, Fall 1995

Daniel Hirschhorn: Summer 1995

Alex Sylva: Fall 1995

Joshua Hsu: Fall 1995, Spring 1996

Kerri Hall: Fall 1995, Spring 1996, Fall 1996

Kerri became a graduate student in UT Molecular Biology Program.

Courtney Cater: Spring 1996, Fall 1996, Spring 1997

Courtney became a graduate student in UT Molecular Biology program.

Mike Lin: Fall 1996, Spring 1997, Fall 1997

**Mike received an Undergraduate Research Fellowship (\$1000.) for his work.*

Mike was the Dean's Honored Graduate in 1997.

Mike became a graduate student at Columbia University.

Matthew Ogdie: Fall 1996, Spring 1997

Xavier Berni: Fall 1996, Spring 1997

Calvin Chan: Spring 1997, Summer 1997

Andrew Ginzel: Spring 1997, Summer 1997, Fall 1998

*Andy is a co-author of a paper published in *Development* in 2000.*

Andy became a medical student in Texas.

Ariel Kruger: Summer 1997, Fall 1997, Spring 1998

Ariel became a medical student in Texas.

Ari Molofsky: Fall 1997, Spring 1998, Summer 1998, Fall 1998, Spring 1999

**Ari received an Undergraduate Research Fellowship (\$1000.) for his work.*

**Ari is a co-author on a paper in *Molecular Biology of the Cell* (2004).*

Ari was the Dean's Honored Graduate in 1999.

Ari became an MD/PhD student at The University of Michigan.

Jennifer Gatchel: Fall 1997
Kathleen Stauber: Summer 1998
Anne Morse: Summer 1998, Fall 1998, Spring 1999
Carla Casariego: Fall 1998, Spring 1999
Diane Hendricks: Fall 1998, Spring 1999
Diane became a graduate student at Duke University.
Reena Patel: Summer 1999
Alexandra Porter: Summer 1999
Jacqueline Carmona: Summer 1999
Jason Helton: Fall 1999, Spring 2000
Brad Jacobsen: Fall 1999, Spring 2000
Christina Robinson: Fall 1999, Spring 2000
Darren Abbey: Summer 2000
Selena Sierra: Spring 2000, Summer 2000, Fall 2000, Spring 2001, Summer 2001
Andrew Kenny: Spring 2000, Summer 2000, Fall 2000, Spring 2001, Summer 2001
Carmen Pittman: Spring 2001
Poornima Parmeswaran: Spring 2001
Danielle Nicholson: Summer 2001, Fall 2001
Mary McClellan: Summer 2001, Fall 2001
Jasmine Baker: Summer 2001
Laura Beckman: Summer 2001
Sindhu Joseph: Fall 2001
Erin Fitch: Fall 2002, Summer 2002, Spring 2003, Summer 2003, Fall 2003
Recipient of Undergraduate Research Fellowship (\$800.)
Erin is co-author on a paper published in Development (2004)
Erin is co-author on a paper published in Developmental Biology (2009).
Erin became an MD/PhD student in Oregon.
Nicol Zabak: Spring 2003
Kim Goodman: Summer 2003
Monica Suliman: Spring 2003, Fall 2003, Spring 2005
Sam Stevens: Summer 2004, Fall 2004, Spring 2005, Fall 2005
Sam is co-author of a paper published in Genetics (2007)
Heather Wiora: Spring 2005 – Spring 2007
Heather is co-author of a paper submitted in 2010
Samantha Williams: Fall 2005
Premal Bhavsar: Spring 2007
Sandra Jaramillo: Summer 2007, Fall 2007, Spring 2008
Stephen Fleenor: Summer 2007, Fall 2007, Spring 2008, Summer 2008, Fall 2008, Spring 2009
Stephen is co-author of a paper published in Developmental Biology (2009).
Markay Isaac: Summer 2007, Fall 2007, Spring 2008, Summer 2008
Will Stoutt: Fall 2007, Spring 2008, Summer 2008, Fall 2008, Spring 2009, Summer 2009, Fall 2010
Samantha Marion: Fall 2007, Spring 2008
Dagan Lavee: Fall 2007, Spring 2008
Matt Glover: Spring 2008, Summer 2008, Fall 2008, Spring 2009, Spring 2010
Alan Te: Summer 2008, Fall 2008, Spring 2009, Summer 2009, Spring 2010
Chris Chu: Fall 2008
Syed Khasimuddin: Fall 2008, Spring 2009
Brian Nyquist: Spring 2010, Summer 2010
Cameron Cunningham: Spring 2010-Spring 2011
John Cudd: Spring 2010
Jonathan Dau: Fall 2009 – Spring 2010
Hugo Lerma: Fall 2010
Anu Madabhushi: Spring 2011, Summer 2011
Sakina Karimjee: Spring 2011, Summer 2011

Juan Raudales: Spring 2011

Undergraduate Theses Supervised

Tija Carey - Plan II Honors Program - TC395T - Spring 1996

Title: Homeotic Genes: Forming and Supporting an Embryonic Blueprint

Diane Hendricks - Zoology Honors Thesis - Fall 1998/ Spring 1999

Title: Genetic Screen for Enhancers of the *fat facets* Mutant Phenotype

Master's Thesis Reader

Dongling Li (Shankland lab) Summer 2000

Xue Ao (Macdonald lab) Fall 2007

Plan II Honors' Thesis Reader

Charlie Greenberg (Spring 2004)

Jennifer Holmes (Spring 2005)

Graduate Students Who Have Earned PhDs in My Laboratory

Yongzhao Huang, Zoology (June 1993 - July 1996).

Postdoctoral Fellow/ Senior scientist in the laboratory of Dr. G. Stanley McKnight at the University of Washington in Seattle. (1996-present)

Qinghong Li, Zoology (January 1994 - November 1998).

Postdoctoral Fellow in the laboratory of Dr. Dan Kalderon at Columbia University in New York City (1999-2001); Computer Science student at Columbia University.

Kathleen Mosley, Zoology (August 1994 - November 1998).

(99-00) Postdoctoral fellow in the laboratory of Dr. Eric Olsen at UT SW Med Ctr.

(01) Adjunct faculty at the University of North Texas in Denton, Texas.

Angelica Cadavid, Molecular Biology (August 1994 - July 2000)

*HOWARD HUGHES PREDOCTORAL FELLOW - the only graduate student ever at UT to receive this prestigious fellowship

Research Scientist at Exelixis in San Francisco (January 2001 - March 2002)

Xin Chen, Molecular Biology (January 1997 - November 2001)

*AWARDED OUTSTANDING DISSERTATION (2001-2002)

Postdoctoral fellow in the laboratory of Dr. Minx Fuller at Stanford University (04/02-12/07).

Assistant Professor of Biology at Johns Hopkins University, Baltimore MD (01/08-present)

Erin Overstreet, Molecular Biology (May 2000 – May 2005)

Postdoctoral fellow in the laboratory of Dr. Larry Zipursky at UCLA (09/05).

Yaning Wu, Molecular Biology (May 2001 – August 2007)

Postdoctoral fellow in the laboratory of Dr. Andreas Bargmann, MD Anderson (02/09- present)

Suk Ho Eun, Molecular Biology (March 2003 – December 2007)

Postdoctoral fellow in the laboratory of Dr. Xin Chen at Johns Hopkins (01/08-present).

Martin Kracklauer, Molecular Biology (March 2003 – August 2008)

Postdoctoral fellow at the University of Michigan, Ann Arbor (09/08-present)

Graduate Students Presently in My Laboratory

admitted to candidacy for PhD:

Ji-Hoon Lee CMB (May 2005 – present)

Xuanhua Xie CMB (May 2005 – present)

Bomsoo Cho CMB (May 2006 – present)

Susan Banks CMB (May 2005 – present)

new PhD student:

Gerrit Van der Ende CMB (September 2008 – present)

Master's Student:
Sheila Bal CMB (December 2009 – present)

Postdoctoral Fellows in my Lab

Dr. Kerrie-Ann Smyth PhD Australian National University (August 1998 - August 2000)
Research Scientist at Genomic FX in Austin (August 2000 - June 2001)
Dr. Kristin Patterson PhD University of Texas at Austin (August 1998 - July 2002)
NIH Postdoctoral Fellow
Instructor in Genetics at UT Austin (2006-present)
Yaning Wu (09/2007 – 02/2008)
Postdoc at MD Anderson with Andreas Bargmann (2009-present)
Dr. Kristin Patterson, Re-Entry NIH Postdoctoral Fellow (June 2010 – present)

SERVICE AT THE UNIVERSITY OF TEXAS AT AUSTIN

Committee Participation

Graduate Student Thesis Committees (other than my own students)

Qi Chen (Artzt/ Zoology) Fall 1993-Fall 1995
Gabriela Rennebeck (Artzt/ Zoology) Fall 1993-Fall 1997
Steve Palmieri (Haarer/ Zoology) Fall 1994-Spring 1999
Yu-Yang Yu (Atkinson/ Zoology) Spring 1995 - Fall 1998 (removed myself)
Judith Bergeron (Crews/ Zoology) Spring 1995 - Spring 1997
John Wallingford (Vize/ Zoology) Spring 1995 - Spring 1998
Ondine Cleaver (Krieg/ Zoology) Fall 1995 - Fall 1998
Weih-meih Chang (Atkinson/ Zoology) Fall 1996 - Summer 1998
Jason Lee (M. Maguire/Zoology) Fall 1998
Yongseok Kweon (Haarer/Zoology) Fall 1998 - Fall 1999
Sungwhan An (Makino/ Microbiology) Fall 1997 - Fall 1998
Thomas Payne (Lloyd/ Botany) Fall 1997 - Fall 1999
Rudi Bohm (Atkinson/ Zoology) Fall 1996 - Summer 2000
Fan Zhang (Lloyd/ Botany) Fall 1997 - Summer 2000
Yan Zhang (Tucker/ Microbiology) Spring 1998 - Summer 2000
Brian Windsor (Lloyd/ Mol Bio) Fall 1998 - Spring 2000
Moon Draper (Atkinson/Bio Sci) Fall 1999 - Summer 2000 (removed myself)
Steve Vokes (Krieg/Mol Bio) Spring 1999 - Spring 2002
Eric Small (Krieg/Mol Bio) Spring 1999 - Spring 2003
Hong Ren (Estelle) Fall 2000 - Spring 2002 - Mark Estelle departed UT
Sutton Mooney (Estelle) Spring 2002 -Mark Estelle departed UT
Dian-Han Kuo (Shankland) Fall 2000 - Spring 2004
Nan Yan (Macdonald) Fall 2001 – Spring 2006
Cuiyun Geng (Macdonald) Fall 2002 – Spring 2007
Shannon Repass (O'Halloran) Fall 2002 – Spring 2007
Craig Burgler (Macdonald) Spring 2005 – Fall 2006
Madhavi Challa (Bratton) Spring 2006 – Summer 2007
Jennifer Hurta (Macdonald) Fall 2002 – Summer 2007
Xianjun Zhu (Stein) Spring 2003 – Spring 2007
Tony Gonzalez (Lloyd) Spring 2003 – Summer 2008
Michael Elizondo (Parichy) Fall 2004 – Fall 2009
Rebecca Brady (O'Halloran) Fall 2004-Spring 2008
Zhenyu Zhang (Stein) Fall 2004 – Summer 2008

Yuija Wen (O'Halloran) Fall 2004 – Spring 2009
Xiaobin Wang (Stein) Spring 2005 – Summer 2007
Yong Suk Cho (Stein) Spring 2005 – Spring 2010
Pam Fairbank (Wallingford) Fall 2005 (Masters)
Brad Reveal (Macdonald) Fall 2005 – Fall 2010
John Reich (Macdonald) Fall 2007 – Fall 2009
Chini Pai (Macdonald) Fall 2007 (Masters)
Hilary Graham (O'Halloran) Fall 2007 (Masters)
Kate Monzo (Sisson) Fall 2007-Fall 2009
Yoni Bibliowicz (Gross) Fall 2008 – present
Jiwoon Lee (Gross) Fall 2008 - Fall 2010
Michael Cantrell (Van Den Berg) Fall 2009 – present
Su Kyoung Kim (Wallingford) Spring 2010 – she left
Rasika Sunnadeniya (Lloyd) Summer 2010 – present
Daric Wible (Bratton) Fall 2010 – present
Laura Christian (Poenie) Fall 2010- present
Ting Yeh (Bratton) Fall 2010 – present
Neda Akhavan (Lloyd) Spring 2011- present
Bonnie Zhang (Stein) Spring 2011 – present
Matt Kanke (Macdonald) Spring 2011 - present

Graduate Student Preliminary Examination Committees

Rebecca Thompson (Ryan) Spring 1993
Wendy Gerber (Krieg) Fall 1993
Ondine Cleaver (Krieg) Spring 1994
Lichuan Yang (Pollak) Spring 1994
Tom Carroll (Vize) Spring 1994
Joyce Yu (Atkinson) Spring 1994
Craig Newman (Krieg) Summer 1994
Wendy Donaldson (Pianka) Fall 1994
John Wallingford (Vize) Fall 1994
Paige Warren (Ryan) Spring 1995
Antonio Delgado (Dudley) Spring 1995
Jay Reichman (B. Maguire) Spring 1995
Yongseok Kweon (Haarer) Spring 1995, Fall 1995
Laurie Dries (Hillis) Fall 1995
Sungwhan An (Makino-Microbiology) Fall 1995, Spring 1996
Matthew Brauer (Hillis) Spring 1996
Rudy Bohm (Atkinson) Summer 1996
Andy Gluesenkamp (Pianka) Fall 1996
Turk Rhen (Crews) Fall 1996
Dawn Johnson (Ryan) Fall 1996
Eric Bauer (Pollak) Fall 1996
Mike Burger (Pollak) Fall 1996
Achim Klug (Pollak) Fall 1996
Douglas Altshuler (Dudley) Spring 1997
Jennifer Yeh (Cannatella) Spring 1997
Nicole Kime (Ryan) Fall 1997
Elizabeth Mitchell (Richardson) Fall 1997
Rachel Zierzow (Singer) Fall 1997
Travis LeDuc (Cannatella) Fall 1997
Todd Schlenke (Hillis) Spring 1998
Rafe Brown (Hillis/Cannatella) Fall 1998
Margaret Solberg (Fowler) Fall 1998

Marcos Papp (Ryan) Spring 1999
Steve Vokes (Krieg) Spring 1999
Moon Draper (Atkinson) Spring 1999
Joerg Oestreich (Zakon) Fall 1999
Dongling Li (Shankland) Fall 1999
Frank Trefenbach (Ryan) Fall 1999
Nicole Gerardo (Gilbert) Spring 2000
Dian-Han Kuo (Shankland) Spring 2000
Matthew Kweskin (Mueller) Fall 2000
Shalish Date (Gutell) Summer 2000
Hong Ren (Estelle) Fall 2000
Ryan Hill (Dudley) Spring 2001
Shannon Ross (O'Halloran) Spring 2002
Baeck-Seung Lee (Krug) Spring 2002, Fall 2002
Rammohan Narayanaswamy (Ellington, Marcotte, Lambowitz) Spring 2003
Xiaobin Wang (Stein) Spring 2003
Michael Elizondo (Parichy) Spring 2003
Zhenyu Zhang (Stein) Spring 2003
Schuyler Pike (Appling) Fall 2003
Tien-Ying Hsiang (Krug) Fall 2003
Alicia Del Campo (Huq) Spring 2004
Sarah Conte (Jolly/Lloyd) Fall 2004
Madhavi Challa (Bratton) Spring 2005
John Reich (Macdonald) Spring 2005
Xue Ao (Macdonald) Spring 2006
Srinivas Malladi (Bratton) Spring 2006
Kate Monzo (Sisson) Spring 2006
Hilary Graham (O'Halloran) Spring 2007
Joseph Hanson (Lambowitz) Spring 2008
Michael Cantrell (VandenBerg) Spring 2008
Sheila Bal (Harris) Spring 2008
Bonnie Zhang (Stein) Spring 2009
Michael Scherrer (Wilke) Spring 2009
Yuiko Matsumoto (Crews) Spring 2010
Michael Mand (Paull) Spring 2010
Ben Troutwine (Atkinson) Spring 2010
Jidnyasa Mulekar (Huq) Spring 2010
Alice Zhao (Marcotte) Spring 2010

Zoology Department Committees

- Zoology Seminar Committee (Spring 1994-Fall 1997)
 - Personally hosted: Dr. Kevin Moses (Univ. Southern California) Spring, 1996
 - Dr. Steven Wassarman (UT Southwestern) Spring, 1997
 - Dr. Graeme Mardon (Baylor School of Medicine) Spring 1997
- Zoology Graduate Student Evaluation and Fellowship Committee (Spring 1994-Spring 1995)
- Long Range Planning Committee (Fall 1994)
- Ambion Seminar Series Committee (Summer 1995- 2000)
- New Graduate Student Recruitment and Admissions Committee (Fall 1995 - 2000)
- Neurobiology Faculty Search Committee (Fall 1996-Spring 1998)
- Temporary Faculty Appointments Committee (Spring 1997 - 1999)
- Teaching Excellence Committee (Fall 1998 - 1999)
- Undergraduate Teaching Committee (Fall 1998 - 1999)
- Graduate Student Fellowship Committee (Fall 1998 - Spring 2000)

Section of Molecular Cell and Developmental Biology Committees

- Chair of Faculty Search Committee that hired David Stein (Fall 1999-Spring 2000)
- MCDB Graduate Course Evaluation Committee (Fall 1999)
- MCDB Long Range Planning Committee (Spring 2000 - present)
- Chair of Committee for promotion of Arturo De Lozanne to Associate Professor (Fall 2001)
- Faculty Research Evaluation Committee (Spring 2002)
- Chair of Faculty Search Committee that hired John Wallingford (Fall 2002-Spring 2003)
- Organizer of Smithville Conference (Spring 2003)
- Search Committee for Chair of MCDB (Fall 2004 - present)
- Hiring Plan Committee (Spring 2006)
- Chair of John Sisson's Promotion Committee (Summer, Fall 2006)
- Chair of Faculty Search Committee that hired Johann Eberhard (Fall 2006-Spring 2007)
- Chair of John Wallingford's promotion committee (Summer, Fall 2007)
- Member of David Stein's promotion committee (Summer, Fall 2007)
- Chair of post-tenure review committees for Lloyd and Herrin (Fall 2007)
- Member of Developmental Biology Graduate Program Committee (Fall 2007, Spring 2008)
- Member of Peer Teaching Evaluation Committee (Fall 2007, Spring 2008, Spring 2009, Spring 2010)
- Member of Strategic Planning Committee (Fall 2007)
- Chair of Alan Lloyd's promotion committee (Summer, Fall 2008)
- Post-tenure review for Klaus Kalthoff (Spring 2009)
- Faculty Merit Raise Committee (Spring 2009, Spring 2010, Spring 2011)
- Member of Jennifer Morgan's Third Year Review Committee (Spring 2010)
- Chair of Jeff Gross's Promotion Committee (Fall 2010)
- Chair of Steve Vokes's Third Year Review Committee (Spring 2011)

Interdepartmental Committees

- Elected to Molecular Biology Institute Advisory Committee (Spring 1993)
- Chairman of the Molecular Biology Seminar Series Committee (Fall 1993 - Fall 1994)
 - Personally hosted: Dr. Michael Simon (Stanford University)
 - Dr. Michael Levine (UC San Diego)
 - Dr. Larry Zipursky (UCLA)
 - Dr. Sean Carroll (U. of Wisconsin, Madison)
- Elected to Biological Sciences Graduate Studies Committee (Fall 1994 - Spring 1997)
- Assistant Graduate Advisor to Biological Sciences (Fall 1994-present)
- Faculty Recruiting Committee for the Institute of Cellular and Molecular Biology (Spring 1997)
 - Personally hosted: Dr. Steven Wasserman (UT Southwestern)
 - Dr. Marek Mlodzik (EMBL Heidelberg)
 - Dr. Utpal Banerjee (UCLA)
 - Dr. Jim Waddle (Washington University in St. Louis)
- Life Sciences Reorganization Task Force on Graduate Studies (Spring 1998)
- Graduate Student Admissions Committee for Molecular Biology Program (Fall 1997 - Fall 1998)
- Biology Core Curriculum Committee (Spring 1999)
- Chairman of Teaching Area Committee - Genetics, cell and developmental biology (Fall 2000)
- MGM/ICMB Faculty Recruitment Committee - Molecular Genetics of Pathogenesis (Fall 2000-Spr 2001)
- ICMB Committee to choose abstracts for CMB Graduate Program Prelim Exams (Spring 2001)
- Admissions Committee (Foreign Students) for CMB Graduate Program (Spring 2002, 03, 04)
- Assistant Graduate Advisor for CMB Graduate Program: Prelim Organizer (Fall 02 - Spring 03)
- ICMB Advisory Committee (Fall 2002-2007)
- ICMB Core Imaging Facility Committee (Fall 2003)
- Committee for Evaluation of the Biochemical Sciences ORU (Spring 2004)
- Search committee for Eukaryotic Molecular Biology Jr. Faculty and ICMB Endowed Chair (Fall 04-05)
 - Personally hosted Sean Ryder.
- Elected at-large member of Cell and Molecular Biology GSC Executive Committee (Fall 2010 - present)

University-Wide Committees

- Outstanding Dissertation Award Selection Committee (Spring 2003)
- ESB Planning Task Force (Spring 2006)

Other University Service Activities

- Invited and hosted Molecular Biology Institute Seminar Speakers:

- Dr. Ruth Lehmann, M.I.T. (Fall, 1995)
- Dr. Roger Brent, Harvard Medical School (Spring, 1996)
- Dr. Margaret Baron, Harvard University (Spring, 1997)
- Dr. Rohan Baker, Australian National University (Summer, 1997)
- Dr. Robert Cohen, University of Iowa (Fall, 1998)
- Dr. Paul Macdonald, Stanford University (Spring, 1999)
- Dr. Mark Ptashne, Sloan-Kettering, NYC (Spring, 2000)
- Dr. Bruce Bowerman, University of Oregon, Eugene (Spring 2001)
- Dr. Mark Fortini, National Cancer Institute (Spring 2006)
- Dr. Paul Krieg, Univ. of Arizona College of Medicine (Spring 2006)
- Dr. Gerry Weinmaster, David Geffen School of Medicine, UCLA (Spring 2010)
- Dr. Ross Cagan, Sloan Kettering School of Medicine, NYC (Fall 2010)

- Invited and hosted Molecular Cell and Developmental Biology Seminar Series Speakers:

- Dr. John Wallingford, UC Berkeley (Fall 2001)
- Dr. Helmut Kramer, UT Southwestern (Spring 2002)
- Dr. Beverly Wendland, Johns Hopkins (Spring 2002)
- Dr. Ondine Cleaver, UT Southwestern (Spring 2005)
- Dr. Tom Carroll, UT Southwestern (Spring 2005)
- Dr. Francois Schweisguth, Ecole Normale Supérieure, Paris (Spring 2006)
- Dr. Rueyling Lin, UT Southwestern (Fall 2006)
- Dr. Robert Ward, University of Kansas (Spring 2010)

- Presented lectures at Fall Retreat for Molecular Biology Graduate Program (1994, 95, 96, 98, 99, 00, 03, 06, 07, 08, 09)
 - Presented a Zoology Department Seminar: Molecular Mechanisms of Cell Communication (1995)
 - Presented lecture about my research at Dean's Scholars Lunch (Spring 1996)
 - Participated as panelist in Women's Studies Panel Discussion: Work/Family Issues (Spring 1996)
 - Referee for Undergraduate Research Fellowship Program (1997, 1998, 1999)
 - Seminar about my research for Ruth Buskirk's Undergraduate Summer Research Program (1998)
 - Presented an MCDB Journal Club Seminar (Fall 1999, Fall 2001)
 - Hosted Burdette Lecture for ICMB – Dr. Gerry Rubin, HHMI (Spring 2005)
 - Judge for Siemens High School Science Competition-Southwest Regional Finals (Nov. 2006)
 - Panelist for Austin Postdoctoral Association discussion on Scientific Ethics (Feb. 2007)
 - Judge for Siemens High School Science Competition-Southwest Regional Finals (Nov. 2010)
 - Hosted Special Seminar – Dr. Ugo Mayor, CIC bioGUNEC, Basque Country, Spain (May 2011)
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RESEARCH AT THE UNIVERSITY OF TEXAS AT AUSTIN

Grant Funding: Total External Funding While at UT Austin = \$4,226,054 (direct costs)

Past Grants

University of Texas at Austin Research Institute Grant. \$3000. (1993)

University of Texas at Austin Research Institute Summer Research Award, \$8888. (1993)

University of Texas at Austin Molecular Biology Institute Research Award, \$6000. (1994)

March of Dimes Birth Defects Foundation, P.I. Janice A. Fischer
Research Grant #FY95-0519

Control of cell movements during development

\$94,000 direct costs; July 1995 - June 1997

American Cancer Society, P. I. Janice A. Fischer

Junior Faculty Research Award #JFRA-640

Cell determination and the ubiquitin pathway

\$84,500 direct costs; July 1996 - June 1999

National Science Foundation, P.I. Janice A. Fischer

Grant # IBN-9809937

Molecular genetics of nuclear migration during development

\$233,680 direct costs; August 1998 - July 2001

no-cost extension in progress through July 2002

National Institutes of Health, P. I. Janice A. Fischer

Research Grant # R29HD30680-01/05

Cell communication during retinal morphogenesis

\$350,000 direct costs; July 1993 - June 1998

National Institutes of Health, P.I. Janice A. Fischer

Grant #R01HD30680-06 through -09

Ubiquitin and cell communication in eye development

\$643,874 direct costs; July 1998 - June 2002

National Institutes of Health, P.I. Janice A. Fischer

Grant #RO1EY13958-01/04

Eye development: molecular genetics of nuclear migration

\$600,000 direct costs; April 2002 - March 2006

no cost extension through March 2007

This project is ended.

National Institutes of Health, PI Janice A. Fischer

Grant #R21-NS051307

A Drosophila Model for Angelman Syndrome

\$250,000 direct costs; April 2005 - March 2007

no-cost extension through March 2008

National Institutes of Health, P.I. Janice A. Fischer

Grant #RO1HD30680 (years 10 through -14)

Control of development by ubiquitin and endocytosis

\$875,000 direct costs; July 2002 - May 2007

no-cost extension through December 2008

Texas Higher Education Coordinating Board, PI Janice A. Fischer
Advanced Research Program
Proposal #003658-0017-2007
Using a *Drosophila* model to identify UBE3A substrates relevant to Angelman Syndrome
\$150,000 direct costs; May 2008-April 2011

Active Grants

National Institutes of Health, PI Janice A. Fischer
Grant #RO1HD30680 (years 15-19)
Control of Notch signaling by endocytosis
\$945,000 direct costs; January 2009 – December 2013

- ARRA Supplement for Summer Student Salary
Grant # 3R01HD030680-15A1S1
June 2009 – October 2009; **\$10,640** total costs
- Re-Entry Supplement for Postdoctoral Fellow Salary
Grant # 3R01HD030680-16S1
June 2010 – May 2013; **\$159,495** direct costs

Publications

undergraduate

1. Butzel HM, Fischer JA (1983) The effects of purines and pyrimidines upon transformation in *Tetrahymena vorax*, strain V2S. **J. Protozoology** 30: 247-250.

graduate school

2. Fischer JA, Maniatis T (1985) Structure and transcription of the *Drosophila mulleri* alcohol dehydrogenase genes. **Nucleic Acids Research** 13: 6899-6917.
3. Posakony JW, Fischer JA, Corbin V, Maniatis T (1985) Identification of DNA sequences required for the regulation of *Drosophila alcohol dehydrogenase* gene expression. In Current Communication in Molecular Biology-Eukaryotic Transcription: The role of *cis*- and *trans*-acting elements in initiation. Y. Gluzman, ed., Cold Spring Harbor Laboratory. pp. 194-200.
4. Posakony JW, Fischer JA, Maniatis T (1986) Identification of DNA sequences required for the regulation of *Drosophila* alcohol dehydrogenase gene expression. **Cold Spring Harbor Symposium on Quantitative Biology** 50: 515-520.
5. Fischer JA, Maniatis T (1986) Regulatory elements involved in *Drosophila Adh* gene expression are conserved in divergent species and separate elements mediate expression in different tissues. **EMBO Journal** 5: 1275-1289.
6. Maniatis T, Goodbourn S, Fischer JA (1987) Regulation of inducible and tissue-specific gene expression. **Science** 236:1237-1245.
7. Fischer JA, Maniatis T (1988) *Drosophila Adh*: A promoter element expands the tissue specificity of an enhancer. **Cell** 53: 451-461.
8. Fischer JA, Giniger E, Maniatis T, Ptashne M (1988) *GAL4* activates transcription in *Drosophila*. **Nature** 332: 853-856.

9. Falb D, Fischer J, Maniatis T (1992) Rearrangement of upstream regulatory elements leads to ectopic expression of the *Drosophila mulleri Adh-2* gene. **Genetics** 132: 1071-1079.

postdoctoral

10. Fischer-Vize JA, Vize PD, Rubin GM (1992) A unique mutation in the *Enhancer of split* gene complex affects the fates of the mystery cells in the developing *Drosophila* eye. **Development** 115: 89-101.

11. Fischer-Vize JA, Rubin GM, Lehmann R (1992) The *fat facets* gene is required for *Drosophila* eye and embryo development. **Development** 116: 985-1000. ****featured on cover****

UT Austin

12. Fischer-Vize JA and Mosley, KL (1994) *marbles* mutants: uncoupling cell determination and nuclear migration in the developing *Drosophila* eye. **Development** 120: 2609-2618.

13. Huang Y, Baker RT, Fischer-Vize JA (1995) Control of cell fate by a deubiquitinating enzyme encoded by the *fat facets* gene. **Science** 270: 1828-1831.

commentaries on this paper:

- Kalderon D (1996) Protein degradation: de-ubiquitinate to decide your fate. *Current Biology* 6: 662-665.
- Hopkin K (1997) Regulating cellular processes: the power of protein degradation. *Journal of NIH Research* 9: 36-42. ****our work featured on cover****

14. Huang Y, Fischer-Vize JA (1996) Undifferentiated cells in the developing *Drosophila* eye influence facet assembly and require the *Fat facets* deubiquitinating enzyme. **Development** 122: 3207-3216.

15. Fischer JA, Leavell SK, Li Q (1997) Mutagenesis screens for interacting genes reveal three roles for *fat facets* during *Drosophila* eye development. **Developmental Genetics** 21: 167-174. ****featured on cover****

16. Li Q, Hariharan IK, Chen F, Huang Y, Fischer JA (1997) Genetic interactions with *Rap1* and *Ras1* reveal a second function for the *fat facets* gene in *Drosophila* eye development. **Proceedings of the National Academy of Sciences, USA** 94: 12515-12520.

17. Mosley-Bishop KL, Li Q, Patterson K, Fischer JA (1999) Molecular analysis of the *klarsicht* gene and its role in nuclear migration within differentiating cells of the *Drosophila* eye. **Current Biology** 9: 1211-1220.

18. Wu Z, Li Q, Fortini M, Fischer JA. (1999) Genetic analysis of the role of the *Drosophila fat facets* gene in the ubiquitin pathway. **Developmental Genetics** 25: 312-320.

19. Cadavid ALM, Ginzel A, Fischer JA (2000) The function of the *Drosophila Fat facets* deubiquitinating enzyme in limiting photoreceptor cell number is intimately associated with endocytosis. **Development** 127: 1727-1736.

commentary on this paper:

- Carthew RW, Xu C (2000) Endocytosis: why wait to deubiquitinate? *Current Biology* 10:R532-R534.

20. Chen X, Overstreet E, Wood SA, Fischer JA (2000) On the conservation of function of the *Drosophila Fat facets* deubiquitinating enzyme and *Fam*, its mouse homolog. **Development Genes and Evolution** 210: 603-610.

21. Chen X, Li Q, Fischer JA (2000) Genetic analysis of the *Drosophila DNAPrim* gene: the function of the 60 kD primase subunit of DNA polymerase opposes the *fat facets* signaling pathway in the eye. **Genetics** 156:1787-1795.
22. Chen X, Fischer JA (2000) *In vivo* structure/function analysis of the *Drosophila fat facets* deubiquitinating enzyme gene. **Genetics** 156:1829-1836.
23. Fischer JA (2000) Molecular motors and developmental asymmetry. **Current Opinion in Genetics and Development** 10:489-496.
24. Fischer JA (2001) Developmental regulation through protein stability. In *Results and Problems in Cell Differentiation (Vol. 37): Drosophila eye development*. ed. K. Moses. Springer-Verlag. pp. 151-167
25. Chen X, Fischer JA (2002) A P element transformation vector for high levels of gene expression in the germ-line cells of the ovary and undifferentiated cells in the *Drosophila* eye. **Plasmid** 47: 61-65.
26. Chen X, Zhang B, Fischer, JA (2002) A specific protein substrate for a deubiquitinating enzyme: Liquid facets is the substrate of Faf facets. **Genes and Development** 16: 289-294.
27. Fischer JA , Overstreet E (2002) Fat facets does a Highwire act at the synapse. **Bioessays** 24:13-16.
28. Fischer JA (2003) The role of molecular motors in generating developmental asymmetry. In *Molecular Motors*, ed. M. Schliwa, Wiley-VCH. Chapter 15, pp. 357-376.
29. Overstreet E, Chen X, Wendland B, Fischer JA (2003) Either part of a *Drosophila* epsin (Liquid facets) protein, divided after the ENTH domain, functions in the internalization of Delta in the developing eye. **Current Biology** 13:854-860.
30. Fischer JA (2003) Deubiquitinating enzymes: their roles in development, differentiation, and disease. **International Review of Cytology** 229:43-72.
31. Patterson K, Molofsky A, Robinson, C, Acosta, S, Cater C, Fischer JA (2004) The roles of Klarsicht, lamin, and the MTOC in developmentally regulated migration of photoreceptors in the *Drosophila* eye. **Molecular Biology of the Cell** 15: 600-610. Published on-line November 2003.
Featured on March 2004 cover and on the ASCB Meeting (12/03) T-shirt!
32. Overstreet E, Fitch E, Fischer JA (2004) Fat facets and Liquid facets promote Delta endocytosis and Delta signaling in the signaling cells. **Development** 131:5355-5366.

commentaries on this paper:
 - Highlighted in "In this issue" in *Development*.
 - Featured in *Science STKE* (<http://www.stke.org>) as a noteworthy contribution to the scientific literature in "This Week in Signal Transduction."
 - Featured in : Kanwar and Fortini (2004) Notch Signaling: A different sort makes the cut. *Current Biology* 14:R1043-R1045.
33. Fischer JA, Acosta S, Kenny A, Robinson C, Cater C, Hook J (2004) *Drosophila* Klarsicht has distinct domains for nuclear envelope and microtubule localization in the eye. **Genetics** 168:1382-1393.
34. Starr DA, Fischer JA (2005) KASH 'n Karry: the KASH domain family of cargo-specific cytoskeletal adaptor proteins. **Bioessays** 27:1136-1146
35. Fischer JA, Eun SH, Doolan B. (2006) Endocytosis, endosome trafficking and the regulation of *Drosophila* development. **Annual Review of Cell and Developmental Biology** 22:181-206

36. Eun SH, Lea K, Overstreet E, Stevens S, Lee J-H, Fischer JA. (2007) Identification of genes that interact with *Drosophila liquid facets*. **Genetics** 175:1163-1174
37. Kracklauer M, Banks S, Xie X, Fischer JA (2007) *Drosophila klaroid* encodes a SUN domain protein required for Klarsicht localization to the nuclear envelope and nuclear migration in the eye. **FLY** 1:75-85 (featured on cover)
38. Eun SH, Banks SML, Fischer JA (2008) Auxilin is essential for Delta signaling. **Development** 135:1089-1095
39. Xie X, Fischer JA (2008) On the functions of the *Drosophila* KASH proteins Msp-300 and Klarsicht. **FLY** 2:74-81
40. Wu Y, Bolduc F, Bell K, Tully T, Fang Y Sehgal A, Fischer JA (2008) A *Drosophila* model for Angelman syndrome. **Proceedings of the National Academy of Sciences, USA** 105(34):12399-12404
41. Perdigoto CNLR, Gervais L, Overstreet E, Fischer JA, Guichet A, Schweisguth F (2008) Overexpression of Partner of Numb induces asymmetric distribution of the PI4P 5-kinase Skittles in mitotic sensory organ precursor cells in *Drosophila*. **PLoS ONE**, 3(8)e3072
42. Lee J-H, Overstreet E, Fitch E, Fleenor S, Fischer JA (2009) *Drosophila liquid facets-Related* encodes Golgi epsin and is an essential gene required for cell proliferation, growth, and patterning. **Developmental Biology** 331:1-13.
43. Kracklauer MP, Wiora HM, Chen X, Deery WJ, Bolival Jr. II B, Romanowicz D, Simonette RA, Fuller MT, Fischer JA, Beckingham KM (2010) The *Drosophila* SUN protein Dspag4 cooperates with Yuri Gagarian to position the basal body on the spermatid nucleus. **Journal of Cell Science** 123:2763-2772. (featured on cover)
44. Cho B, Fischer JA (2011) Ral GTPase promotes asymmetric Notch activation in response to Frizzled/PCP signaling by repressing ligand-independent receptor activation. **Development** 138:1349-1359
45. Banks SML, Cho B, Eun SH, Lee J-H, Windler SL, Xie X, Bilder D, Fischer JA (2011) The Functions of Auxilin and Rab11 in *Drosophila* Suggest that the Fundamental Role of Ligand Endocytosis in Notch Signaling Cells is Not Recycling. **PLoS ONE** 6(3):e18259
46. Weinmaster G, Fischer JA (2011) Notch ligand ubiquitylation: what is it good for? invited review for **Developmental Cell**, in press

manuscripts submitted

Xie X, Fischer JA A single ubiquitin interaction motif is the only indispensable module type of *Drosophila* epsin. in revision for **Developmental Biology**

manuscripts in preparation

Fischer JA, Cho B. (2011) Invited review about Ral signaling, **Small GTPases**

Cho B, Fischer JA Epsin has a cell autonomous role in Notch signaling.

TEXTBOOK WRITING PROJECT

I am presently negotiating with McGraw-Hill and will likely become a new co-author, starting with the 5th Edition, of the best-selling Undergraduate Genetics textbook: *Genetics, From Genes to Genomes*. Writing

for the 5th Edition is likely to begin in Summer/Fall 2011.

Other Research and Service Activities

Member of grant review study sections

1999-2003 American Cancer Society: Development, Differentiation & Cancer
 1998-2001 National Science Foundation: Developmental Mechanisms

ad hoc service on review committees

1995-2004 National Science Foundation proposal reviewer for Developmental Mechanisms
 1999-2002 National Science Foundation proposal viewer for Cellular Organization
 1997 Wellcome Trust proposal reviewer
 1998 NIH Study Section on Molecular, Cellular and Developmental Neuroscience
 1998-1999 American Cancer Society Review Committee: Molecular Genetics and Oncogenes
 2000 Sandler Award Committee; for best graduate student thesis using *Drosophila*
 2005, 2007 Italian Association for Cancer Research (AIRC)
 2006 NIH Study Section on Neurogenesis and Cell Fate (NCF MCDN IRG)
 2006 NIH Study Section on Developmental Biology (NICHD)
 2006 NSF Developmental Mechanisms
 2007 NIH Study Section GGG: Minority and Disability Fellowship Applications
 2007, 2008 NIH Study Section GTIE: Gene Therapy and Inborn Errors
 2009 NIH Study Section DEV-2: Development 2 (October 1-2)
 2010 Sandler Award Committee; for best graduate student thesis using *Drosophila*
 2010 Reviewed R01 for NIH: Cellular Signaling and Regulatory Systems Study Section
 2010 NSF *ad hoc* for Integrative Organismal Systems, BIO: Developmental Systems
 2011 NIH Study Section: NIDCR Special Grants (Feb 24 teleconference)

Journal Review Boards

DEVELOPMENT Editorial Advisory Board (2004-present)
 First FLY Editor-in-chief (2006 – 2008) <http://www.landesbioscience.com/journals/fly>
 FLY Editorial Advisory Board (2008-present)

Elected Posts

2010-2012 Elected Heartland Regional Representative, *Drosophila* Board of Directors

ad hoc reviews for journals

1994: Development
 1995: Development, Developmental Dynamics
 1996: Development
 1997: Development, Genes and Development, Trends in Cell Biology, Biochimica et Biophysica Acta
 1998: Genetics, Nature
 1999: Protein Science
 2000: Oncogene, Trends in Biotechnology, Acta Biotheoretica
 2001: Genetics, Nature
 2002: Development, Genetics, Nature Reviews Neuroscience
 2003: Development, Nature, Trends in Genetics, Molecular and Cellular Biology, Molecular Microbiology
 2004: Development, Molecular and Cellular Biology, FASEB Journal, Journal of Cell Science, BMC Biology, Journal of Cell Biology
 2005: Development, Journal of Cell Science, Journal of Molecular Biology, Developmental Biology, EMBO Journal
 2006: Development, Genetics, Development Genes and Evolution, Fly
 2007: Development, Journal of Molecular Biology, Developmental Biology, Developmental Cell, Current BioData Ubiquitin Journal, Molecular Biosystems, Neural Development, BioEssays,

PNAS USA, BMC Developmental Biology, Fly
2008: Development, Journal of Cell Science, BMC Biology, Developmental Biology, PNAS USA, Mechanisms of Development, Fly
2009: Development, Genetics, Molecular Biosystems, Mechanisms of Development, Genesis, BMC Developmental Biology
2010: Development, Current Biology, PLoS ONE
2011: PLoS ONE, Developmental Biology, Journal of Cell Biology, Development

Other reviewing activities

-Reviewed 2nd edition of textbook: *Genetics: From Gene to Genome* by Hartwell et al., McGraw-Hill
-Reviewed a Chapter about genetic analysis for a Virtual Textbook on Ben Lewin's ergito.com website
-Reviewed a Molecular Biology Laboratory manual proposal for Wiley (2007)
-External Reviewer of Proposal for Baylor University's Young Investigator Development Program (2009)
-Genetics Text proposal review for John Wiley publisher (2009)
-Reviewed 4th ed. of textbook: *Genetics: From Gene to Genome* by Hartwell et al., McGraw-Hill (2011)

Thesis committees outside the University of Texas at Austin

Ernesto Perez, University of Texas at San Antonio – Fall 2004
Peter Leventis, University of Toronto – Fall 2007

Review of Faculty outside UT

Carl Hashimoto, Yale University School of Medicine, review for tenure – Fall 2009
Chi-Yun Pai, University of Nevada, Reno, 3rd year review of Asst. Prof. – Spring 2009
Jennifer Curtiss, New Mexico State University, review for tenure – Summer 2010

Joint Lab Meeting Organization

Organizer of biweekly developmental biology joint lab meetings (1994-2000).
Organizer of weekly joint lab meetings with Stein, Macdonald and Sisson/Papoulas labs (2005-2007; 2009 –present).

Website

Generated and maintain a website about my lab: http://web.biosci.utexas.edu/fischer_lab/

High school students supervised in my laboratory for summer research projects

Summer 1999: Daylan Chinique
Summer 1999: Dina Urzi, Westlake High School
Summer 2005: Helen Zhang, Westlake High School
Summer 2006: Rohan Parolkar; Texas Academy of Mathematics and Science (TAMS) at UNT in Denton.
Summer 2009: Emily Wright, LASA High School

Interactions with local schools

10/99 Presented a one-hour class about genetics research to grades K-3 at the Isely School.
3/00 Supplied fruit fly strains and advice for a science project at a local public high school.
6/00 Hosted visit to my lab by the UT Psychology Department Lab School Science Day Camp.
5/02 Hosted visit to my lab by the Robert E. Lee Elementary School Brownie Troop #567.
6/04 Visited the UT Psychology Department Lab School Science Day Camp.
11/07 Hosted a visit to my lab by a third grade class at the Austin Girls' School.

Lecture presentations given outside the university (since 1995)

6/95 FASEB Research Conference on Ubiquitin and Protein Degradation (principle speaker)
10/95 Drosophila Neurobiology Meeting at Cold Spring Harbor, NY
4/97 Annual Drosophila Research Conference in Chicago, Illinois
4/97 Biology of Proteolysis Meeting at Cold Spring Harbor, NY (principle speaker)
7/97 FASEB Research Conference on Ubiquitin and Protein Degradation (principle speaker)

9/97 UT Health Science Center at San Antonio, Institute of Biotechnology
9/97 MD/PhD Program Visiting Lecturer at MD Anderson Cancer Center at UT, Houston
9/97 The Skirball Institute, New York University, New York
9/97 Drosophila Neurobiology Meeting at Cold Spring Harbor, NY (session chair)
12/97 Department of Biology at Penn State University
2/98 Lorne International Genome Conference in Lorne, Australia (principle speaker)
3/98 Dept. of Biochemistry, Cell and Molecular Biology at the University of Kansas, Lawrence
3/98 Drosophila Research Conference in Washington, DC (invited plenary session speaker)
3/99 SW Regional Meeting of the Society for Developmental Biology, Austin (session chair)
4/99 Dept. of Cell Biology at the Emory University School of Medicine in Atlanta, Georgia
7/99 Massachusetts General Hospital Cancer Center, Harvard Medical School, Charlestown, MA
7/99 Dept. of Cellular, Molecular and Developmental Biology, Harvard Univ., Cambridge, MA
8/99 FASEB Research Conference on Ubiquitin and Protein Degradation (principle speaker)
9/99 Department of Biology and Biochemistry, The University of Houston
10/99 Program in Genetics, Texas A&M University
11/99 Department of Cell and Developmental Biology, The University of Pennsylvania
5/00 Marconi Center Drosophila Conference, Marin, CA (principle speaker)
11/01 University of Arizona, Tucson, Depts. of Molecular & Cellular Biology; Cell Bio & Anatomy
12/01 Baylor College of Medicine, Dept. of Molecular and Cellular Biology, Houston, TX
1/02 Rigel (a biotech company located in San Francisco-they came to me), in Austin, TX
3/03 44th Annual Drosophila Conference, Chicago, Illinois (platform presentation)
3/03 27th Annual Lineberger Symposium on Cancer at UNC-Chapel Hill (principle speaker)
11/03 Departmental seminar at Emory University School of Medicine in Atlanta, Georgia
5/04 Departmental seminar (MBB) at the Mayo Clinic in Rochester, Minnesota
7/04 19th Aspen Cancer Conference, Aspen, CO (principle speaker)
11/04 Department of Genetics, Yale University School of Medicine, New Haven, CT
11/04 Department of Biology, University of Texas at San Antonio
03/05 Department of Chemistry and Biochemistry, Southwestern University, Georgetown, TX
03/06 UT Southwestern Medical Center, Dept. of Molecular Biology, Dallas, TX
04/06 Vanderbilt University Medical Center, Dept. of Cell and Developmental Biology, Nashville, TN
05/06 Johns Hopkins University, Dept. of Biology, Baltimore, MD
07/07 The Angelman Syndrome Foundation Conference, St. Louis, MO
09/07 The First Biennial Notch Meeting, Athens, Greece
04/08 49th Annual Drosophila Research Conference, San Diego, CA
11/08 Dept. of Biology, McGill University, Montreal, Canada
01/09 Development Colloquium, Dept. of Biology, Duke University, Durham, NC
02/09 Dept. of Molecular and Medical Genetics, University of Toronto
02/09 Molecular Biology Institute, David Geffen School of Medicine, UCLA
04/09 Molecular Genetics and Dev. Biol., University of Connecticut Health Center School of Medicine
11/09 Mount Sinai School of Medicine, New York City
03/10 Biology Dept., Baylor University, TX
10/10 Southwest Regional Developmental Biology Meeting, Austin, TX (invited speaker)
10/10 Biology Dept., University of Dayton, OH : NSF Distinguished Woman Scientist Consortium