Curriculum Vitae

Kim Stewart McKim

Waksman Institute and
Department of Genetics
Rutgers, The State University of New Jersey
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Born: June 6 1963, Vancouver, Canada Citizenship: Canadian

Education:

B.Sc. (Biology with Honors), May 1986, Simon Fraser University.

Ph.D. (Genetics), December 1990, University of British Columbia.

Research and Academic Experience

July 1, 2009 – present: Professor, Waksman Institute, Department of Genetics, Rutgers University, Piscataway NJ.

July 1, 2003 – June 31 2009: Associate Professor, Waksman Institute, Department of Genetics, Rutgers University, Piscataway NJ.

November 1996 - June 31 2003: Assistant Professor, Waksman Institute, Department of Genetics, Rutgers University, Piscataway NJ.

January 1992 - October 1996: Postdoctoral research with Dr. R. Scott Hawley, Section of Molecular and Cellular Biology, University of California, Davis CA.

January 1991 - December 1991: Postdoctoral research with Dr. D. L. Baillie, Institute of Molecular Biology and Biochemistry, Simon Fraser University, Burnaby B.C.

September 1986 - December 1990: Doctoral research with Dr. Ann Rose, Department of Medical Genetics, University of British Columbia, Vancouver, B.C.

Honors and Awards

Rutgers Scholar-Teacher Award, 2011; Aresty Mentor of the the Year, 2008; Medical Research Council (Canada) Fellowship, 1993- 1995; Natural Sciences and Engineering Research Council

Fellowship; Medical Research Council (Canada) Studentship, 1987 – 1990; Natural Sciences and Engineering Research Council Studentship, declined; University Graduate Fellowship, University of British Columbia, 1986 - 1987.

Memberships

Genetics Society of America
American Association for the Advancement of Science

Refereed Journal Publications

Mathieu, J., C. Cauvin, C. Moch, S. J. Radford, P. Sampaio, C. N. Perdigoto, F. Schweisguth, A. J. Bardin, C. E. Sunkel, K. McKim, A. Echard and J. Huynh, 2013 Aurora B and Cyclin B Have Opposite Effects on the Timing of Cytokinesis Abscission in Drosophila Germ Cells and in Vertebrate Somatic Cells. Dev. Cell. 26: 250-265

Radford, S.J., J. K. Jang, and K. S. McKim, 2012 The Chromosomal Passenger Complex is required for Meiotic Acentrosomal Spindle Assembly and Chromosome Bi-orientation. Genetics: 192:417-29

Radford, S.J., A. M. Harrison, and K. S. McKim, 2012 Microtubule-depolymerizing Kinesin KLP10A Restricts the Length of the Acentrosomal Meiotic Spindle in Drosophila females. Genetics: 192:431-40

Joyce, E.F., A. Paul, K.E. Chen, N. Tanneti and K. S. McKim 2012 Multiple Barriers to Non-homologous DNA End Joining During Meiosis in Drosophila. Genetics 191: 739-46.

Joyce, E.F., M. Pedersen, S. Tiong, S.K. White-Brown, A. Paul, S. D. Campbell and K. S. McKim 2011 Drosophila ATM and ATR have distinct activities in the regulation of meiotic DNA damage and repair. J. Cell Biol. 195: 359-67

Tanneti, NS., K. Landy, E. F. Joyce and K. S. McKim, 2011 A pathway for synapsis initiation during zygotene in Drosophila oocytes. Curr. Biol. 8:1852-7

Cesario, J. and K. S. McKim, 2011 RanGTP is required for meiotic spindle organization and the initiation of embryonic development in Drosophila. J. Cell Science 124:3797-810

Joyce EF, K. S. McKim, 2011 Meiotic checkpoints and the interchromosomal effect on crossing over in Drosophila females. Fly (Austin). Apr 1;5: 134-140

Orsi GA, E.F. Joyce, P. Couble, K.S. McKim and B. Loppin. 2010 Drosophila I-R hybrid dysgenesis is associated with catastrophic meiosis and abnormal zygote formation. J Cell Sci. 123: 3515 - 3524

Joyce, E. F. and K. S. McKim, 2010 Chromosome axis defects induce a checkpoint-mediated delay and interchromosomal effect on crossing over during Drosophila meiosis. Plos Genetics, 6: e1001059

McKim, K. S., E. F. Joyce and J. K. Jang, 2009 Cytological analysis of meiosis in fixed Drosophila ovaries. Methods Mol Biol **558:** 197-216.

Joyce, E. F. and K. S. McKim, 2009 Drosophila PCH2 is required for a pachytene checkpoint that monitors DSB-independent events leading to meiotic crossover formation. Genetics 181: 39-51.

Joyce, E.F., N. S. Tanneti and K. S. McKim, 2009 Drosophila HDM protein is required for a subset of meiotic crossovers and interacts with repair endonuclease complex subunits MEI-9 and ERCC1. Genetics, 181:335-40

Colombie, N., C. F. Cullen, A. L. Brittle, J. K. Jang, W. C. Earnshaw, M. Carmena, K. S. McKim and H. Ohkura, 2008 Dual roles of Incenp critical to the assembly of the acentrosomal metaphase spindle in female meiosis, Development, 135:3239-46.

Wu, C., V. Singaram and K. S. McKim, 2008, *mei-38 is required for chromosome segregation during meiosis in Drosophila females*, Genetics, 180:61-72

Mehrotra, S., R. S. Hawley and K. S. McKim, 2007 Synapsis, double strand breaks and domains of crossover control in females, pp. 125-152 in *Recombination and meiosis, crossing-over and disjunction*, edited by R. Egel and D. Lankenau. Springer-Verlag, Berlin.

Jang, J.K., T. Rahman, V.S. Kober, J. Cesario and K.S. McKim 2007 Misregulation of the Kinesin-like protein Subito induces meiotic spindle formation in the absence of chromosomes and centrosomes. Genetics 177: 267-280.

Doubilet S., and K.S. McKim 2007 Spindle assembly in the oocytes of mouse and Drosophila - similar solutions to a problem. Chromosome Res. 15: 681-96.

Trowbridge K, K. McKim, S.J. Brill and J. Sekelsky, 2007 Synthetic lethality in the absence of the Drosophila MUS81 endonuclease and the DmBlm helicase is associated with elevated apoptosis. Genetics 176: 1993-2001.

McKim, K.S, 2007 Meiotic Pairing: A Place to Hook up. Curr Biol. 17:R165-8

Joyce E.F. and K.S. McKim, 2007 When specialized sites are important for synapsis and the distribution of crossovers. Bioessays 29: 217-26

Mehrotra, S. and K.S. McKim, 2006 Temporal Analysis of Meiotic DNA Double-Strand Break Formation and Repair in Drosophila Females. PLoS Genet. 2: 1883-1897

Cesario, J., B. Redding, N. Shah, T. Rahman, J.K. Jang and K. S. McKim, 2006 Subito, a Kinesin 6 family member, participates in mitotic spindle assembly and interacts with mitotic regulators such as Polo kinase and the Passenger proteins. J. Cell Sci., 119: 4770-80

Horner, V.L., Z. Czank, J.K. Jang, N. Singh, B.C. Williams, J. Puro, E. Kubli, S.D. Hanes, K.S. McKim, M.F. Wolfner, and M.L. Goldberg, 2006 The Drosophila Calcipressin Sarah is Required for Several Aspects of Egg Activation. Curr Biol 16: 1441-1446

Gong, W.J, K.S. McKim and R.S. Hawley RS, 2005 All Paired Up with No Place to Go: Pairing, Synapsis, and DSB Formation in a Balancer Heterozygote. PLoS Genet: 1: 589 - 602

McKim, K.S., 2005 When Size Does Not Matter: Pairing Sites during Meiosis. Cell: 123(6):989-92.

Jang, J.K., T. Rahman and K. S. McKim, 2005 The kinesinlike protein subito contributes to central spindle assembly and organization of the meiotic spindle in Drosophila oocytes. Mol. Biol. Cell.: 16:4684-4694

Dorsett D., J.C. Eissenberg, Z. Misulovin, A. Martens, B. Redding and K.S. McKim, 2005 Effects of sister chromatid cohesion proteins on cut gene expression during wing development in Drosophila. Development: 132:4743-4753

Anderson, L.K., S.M. Royer, S.L. Page, K.S. McKim, A. Lai, M.A. Lilly and R.S. Hawley, 2005 Juxtaposition of C(2)M and the transverse filament protein C(3)G within the central region of Drosophila synaptonemal complex. Proc. Natl. Acad. Sci. USA: 102:4482-4487

Sherizen, D. E., J.K. Jang, N. Kato, and K. S. McKim, 2005 Translocations are dominant meiotic crossover suppressors due to a defect early in the recombination pathway. Genetics: 169: 767-81

R. Bhagat, E. A. Manheim, D. E. Sherizen and K. S. McKim**,** 2004 Studies on crossover specific mutants and the distribution of crossing over in Drosophila females**.** Cytogenet Genome Res 107: 160-171

J.K. Jang, Sherizen, D.E., R. Bhagat, E.A. Manheim and Kim S. McKim, 2003 Relationship of DNA double-strand breaks to synapsis in Drosophila. J. Cell Science 116: 3069-3077

Manheim E. A. and K. S. McKim, 2003 C(2)M, a novel component of the synaptonemal complex, regulates meiotic crossing over. Curr. Biol. 13: 276-285

McKim, K.S., E.A. Manheim and J.K. Jang 2002 Meiotic recombination and chromosome segregation in Drosophila females, Annu. Rev. Genet. 36: 205- 232

Liu, H., J.K. Jang, N. Kato and K. S. McKim, 2002 *mei-P22* encodes a chromosome-associated protein required for the initiation of meiotic recombination in *Drosophila melanogaster*. Genetics 162: 245-258

Guinta, K., J.K. Jang, E.A Manheim, G. Subramanian and K. S. McKim, 2002 *subito* encodes a kinesin-like protein required for meiotic spindle pole formation in *Drosophila melanogaster*. Genetics 160: 1489-1501

Manheim, E.A. J. K. Jang and K. S. McKim, 2002 Cytoplasmic localization and regulation of MEI-218, a protein required for meiotic crossing over in Drosophila. Mol. Biol. Cell 13: 84-95

Liu, H., J.K. Jang, J. Graham, K. Nycz, K. and K.S. McKim, 2000 Two genes required for meiotic recombination are expressed from a dicistronic message. Genetics 154: 1735-1746

Page, S.L., K.S. McKim, B. Deneen, T. L. Van Hook, and R. S. Hawley, 2000 Genetic studies of *mei-P26* reveal a link between the processes that control germ cell proliferation in both sexes and those that control meiotic exchange in Drosophila. Genetics 155:1757-72

McKim, K.S., J.K. Jang, J.J. Sekelsky, A. Laurencon, and R. S. Hawley, 2000 *mei-41* is required for precocious anaphase in Drosophila females. Chromosoma 109: 44-49

Sekelsky, J.J., K. S. McKim, L. Messina, R.L. French, W.D Hurley, T. Arbel, G.M. Chin, B. Deneen, S.J. Force, K.L. Hari, J.K. Jang, A.C. Laurencon, L.D. Madden, H.J. Matthies, D.B. Milliken, S.L. Page, A.D. Ring, S.M. Wayson, C.C. Zimmerman and R.S. Hawley, 1999 Identification of novel Drosophila meiotic genes recovered in a *P*-element screen. Genetics 152: 529-542.

McKim, K.S. and A. Hayashi-Hagihara, 1998 *mei-W68* in *Drosophila melanogaster* encodes a Spo11 homolog: Evidence that the mechanism for initiating meiotic recombination is conserved. Genes & Dev. 12: 2932-2942.

McKim, K.S., B. Green-Maroquin, G. Chin, J. J. Sekelsky and R. S. Hawley, 1998 Meiotic Synapsis in the Absence of Recombination. Science 279: 876-878.

McKim, K.S., J.B Dahmus and R.S. Hawley, 1996 Cloning of the *Drosophila melanogaster* meiotic recombination gene *mei-218*: A genetic and molecular analysis of interval 15E. Genetics 144: 215-228.

McKim, K.S. and R.S. Hawley, 1995 Chromosomal control of meiotic cell division. Science 270: 1595-1601.

Sekelsky, J.J., K.S. McKim, G.M. Chin, and R. Scott Hawley, 1995 The Drosophila meiotic recombination gene *mei-9* encodes a homolog of the yeast excision repair protein Rad1. Genetics 141: 619-627.

Hari, K.L, A. Santerre, J.J. Sekelsky, K.S. McKim, J.B. Boyd, and R. S. Hawley, 1995 The *mei-41* Gene of *Drosophila melanogaster* is a structural and functional homolog of the human ataxia telangiectasia gene. Cell, 82: 815-821.

McKim, K. S., C. Matheson, M. Marra, M. Wakerchuk and D. L. Baillie, 1994 Genetic and molecular organization around *unc-60*: a gene encoding a putative actin binding protein. Mol. Gen. Genet. 242: 346-57.

McKim, K. S., K. Peters and A. M. Rose, 1994 Spontaneous duplication loss and breakage in *Caenorhabditis elegans*. Genome 37: 595-606.

McKim, K. S., J. K. Jang, W. Theurkauf, and R. S. Hawley, 1993 The mechanical basis of meiotic metaphase arrest. Nature 362: 364-366.

McKim, K. S., K. Peters and A. M. Rose, 1993 Two types of sites required for meiotic chromosome pairing in *Caenorhabditis elegans*. Genetics 134: 749-768.

Hawley, R. S., K. S. McKim and T. Arbel, 1993 Meiotic segregation in *Drosophila melanogaster* females: Molecules, mechanisms, and myths. Ann. Rev. Genet. 27: 281-317.

McKim, K.S., T.V Starr and A. M. Rose, 1992 Genetic and molecular analysis of the *dpy-14* region in *Caenorhabditis elegans*. Mol. Gen. Genet. 233: 241-251.

Hawley R. S., H Irick, A. E. Zitron, D. A. Haddox, A Lohe, C. New, M. D. Whitley, T. Arbel, J. Jang, K. McKim and G. Childs, 1992 There are two mechanisms of achiasmate segregation in Drosophila females, one of which requires heterochromatic homology. Dev. Genet. 13: 440-467.

McKim, K. S. and A. M. Rose, 1990 Chromosome I duplications in *Caenorhabditis elegans*. Genetics 124: 115 - 132.

Clark, D. V., R. C. Johnsen, K. S. McKim and D. L. Baillie, 1990 Analysis of lethal mutations induced in a mutator strain that activates transposable elements in *Caenorhabditis elegans*. Genome 33: 109-114.

McKim, K. S., A. M. Howell and A. M. Rose, 1988 The effects of translocations on recombination frequency in *Caenorhabditis elegans*. Genetics 120: 987-1001.

McKim, K. S., M. F. P. Heschl, R. E. Rosenbluth and D. L. Baillie, 1988 Genetic organization of the *unc-60* region in *Caenorhabditis elegans*. Genetics 118: 49-59.

Speaker Invitations

September 14, 2013, EMBO Drosophila Cell Division Cycle Meeting, Totnes, UK.

September 27, 2013, University of Iowa, Department of Biology.

October 16, 2012, University of Connecticut, Molecular and Cell Biology.

October 3, 2012, University of Pennsylvania, Center for Research on Reproduction and Women's Health.

June 21 2010, EMBO workshop: Chromosome Segregation and Aneuploidy

June 13, 2010, *Meiosis* Gordon Conference - Colby-Sawyer College

March 12, 2010, Developmental Biology and Genetics - Institut Curie, Paris, France

Feb. 3, 2010, Kean University

October 5, 2009, Genome Integrity Group, New York Academy of Sciences

September 19-23, 2009, EMBO Conference on Meiosis, Isle sur la Sorgue, France

Jan 23, 2009, University of Windsor, Canada.

Sept 4, 2008, Albert Einstein College of Medicine

June, 2008, *Meiosis* Gordon Conference - Colby-Sawyer College

April 2, 2007: Indiana University, Bloomington.

March 23, 2007: Waksman Student Scholars Program (High School), Rutgers University.

September 12, 2006: Yale University

June 13, 2006, *Meiosis* Gordon Conference - Colby-Sawyer College

November 15, 2005, University of Rochester, Rochester, N.Y.

September 19, 2005, Centro Andaluz de Biología del Desarrollo (CABD), Universidad Pablo de Olavide, Sevilla, Spain

September 13-18, 2005, 7th European Meiosis Meeting, Madrid, Spain

May 19, 2005, National Institutes of Health, Bethesda, Maryland

April 14, 2005, University of Alberta, Edmontan, Alberta, Canada.

June 22, 2004, *Meiosis* Gordon Conference - Colby-Sawyer College

April 29, 2004, Department of Genetics, Washington University School of Medicine, St. Louis

March 1, 2004, Department of Biology, McGill University, Montreal Canada

June 17, 2002, *Meiosis* Gordon Conference - Colby-Sawyer College

May 7, 2002, Stowers Institute of Biomedical Research, Kansas City

April 16, 2001 Program in Developmental Genetics, Skirball Institute, NYU.

September, 15 2000 Graduate program in Genetics, University of North Carolina

June 11-15, 2000 EMBO workshop on Regulation of Cell Division in Drosophila, Cortona, Italy.

March 14, 2000, Carnegie Mini-Symposium on meiosis, Baltimore, MD.

Feb 11, 2000 Princeton University

March 24 1999, 40th Annual Drosophila Research Conference, Bellevue WA.

March 15, 1999, National Institutes of Health, Bethesda, Maryland.

March 14, 1999, Northeast Regional Developmental Biology Conference. Woods Hole, MA

June 17, 1998, *Meiosis* Gordon Conference - Colby-Sawyer College

August 14 1997, Department of Medical Genetics, University of British Columbia

April 29 1996, 37th Annual Drosophila Research Conference, San Diego CA.

External Grant Support – Funded projects

Homolog orientation and segregation in acentrosomal meiosis
Principal Investigator: Kim S. McKim Award Period (McKim) 09/01/13 – 04/30/17
Agency: NIH 1 R01 GM101955-01
Direct costs: $820,000 Total Costs: $1,271,000

Completed projects

Meiotic spindle formation in Drosophila females
Principal Investigator: Kim S. McKim Award Period: 09/28/07 – 8/31/013 (no cost extension).
Agency: NIH 2 R01GM067142-05
Direct costs: $800,000 Total Costs: $1,212,984

"Crossover formation during meiosis in Drosophila females"
Principal Investigator: Kim S. McKim Award Period: 10/01/07 – 09/30/11
Agency: NSF MCB-0719010
Direct costs: $323,630 Total Costs: $483,685

Chromosome segregation during meiosis I in Drosophila females
Principal Investigator: Kim S. McKim Award Period: 01/01/03 – 12/31/07 (1 yr. extension)

Agency: NIH R01GM067142-01
Direct costs: $492,000 Total Costs: $737,832
The goals of this project are to characterize the mechanisms of microtubule spindle formation and homolog segregation during meiosis I.

"Genetic control of meiotic recombination" (renewal)
Principal Investigator: Kim S. McKim Award Period: 01/01/03 – 12/31/07 (1 yr. extension)
Agency: ACS RSG-98-069-04-DDC
Direct costs: $580,273 Total Costs: $696,000
The goals of this project are to study the mechanism of double strand break repair during meiosis and how crossing over is regulated.

"Meiotic homolog pairing in Drosophila" (renewal)
Principal Investigator: Kim S. McKim Award Period: 09/01/00 – 08/31/03
Agency: NSF MCB-0077705
Direct costs: $236,280 Total Costs: $375,000
The goals of this project are to characterize the mechanisms of homolog pairing and recombination initiation during meiosis.

"A confocal microscope for developmental and cell biological studies"
Co-Principal Investigators: Kim S. McKim and Dr. Ken Irvine
Award Period: 08/01/00 – 07/31/02
Agency: NSF DBI 0070353
Total and Direct costs: $250, 000
This is a shared instrumentation grant which was used to obtain a Leica TCS SP confocal microscope. This instrument is used by several investigators.

"Structure and function of the recombination nodule"
Principal Investigator: Kim S. McKim Award Period: 01/01/98 – 12/31/01
Agency: ACS RPG-98-069-01-DDC
Direct costs: $264,700 Total Costs: $330,000
The goals of this project were to study the structure of the recombination nodule, the site of meiotic double-strand break repair and crossover formation.

"Meiotic homolog pairing in Drosophila"
Principal Investigator: Kim S. McKim Award Period: 09/15/97 – 08/31/00
Agency: NSF MCB-9723330
Direct costs: $224,793 Total costs: $330,000
The goals of this project were to characterize the mechanisms of homolog pairing and recombination initiation during meiosis.

Internal Grant Support

A real time analysis of meiotic spindle formation during meiosis in Drosophila females.

Principal Investigator: Kim S. McKim Award Period: 07/01/02 - 06/30/04
Source: Charles and Johanna Busch Memorial Fund (Rutgers)
Total costs: $20,000
This is a grant to develop the techniques necessary to observe chromosome and microtubule dynamics in living oocytes.

Cytological analysis of homologous chromosome pairing in Drosophila
Principal Investigator: Kim S. McKim Award Period: 07/01/00 – 06/31/02
Source: Charles and Johanna Busch Memorial Fund (Rutgers)
Total costs: $20,000
This was used as an equipment grant to purchase an upgrade to our Zeiss Axioplan 2 microscope. This includes a digital camera and software to allow advanced imaging such as 3D data collection and digital deconvolution.

A novel method to isolate meiotic recombination genes.
Principal Investigator: Kim S. McKim Award Period Covered 07/01/98 - 06/30/00
Source of Support: Charles and Johanna Busch Memorial Fund (Rutgers)
Total Costs: $20,000
This was a grant to conduct genetic screens to identify genes required for meiotic recombination and chromosome segregation.

Undergraduate teaching

Undergraduate advising, Fall 1997- Spring 1998

Genetics 01:447:380, Spring 1999, Spring 2000, Spring 2001, Fall 2003, Fall 2004, Fall 2005, Fall 2006, Fall 2007

Genetics 01:447:385, Genetics II: Spring 2004.

Genetics 01:447:403, Seminar in Genetics: Fall 2002
Genetics 01:447:404, Seminar in Genetics: Spring 2007, Spring 2012

Special Topics in Genetics 447:378 (Fall 2008), 25 lectures, course director).

Mutant isolation and analysis 447:465 (Fall 2009, Fall 2010, Fall 2011, Fall 2012, Fall 2013) 25 lectures, course director.

Graduate teaching

Seminar in Molecular Genetics 16:681:681. Fall 1998

Biochemistry 16:115:502, three lectures in genetic recombination, Fall 1999, Fall 2000, Fall 2001, Fall 2002, Fall 2003, Fall 2004, Fall 2005, Fall 2006, Fall 2007, Fall 2008, Fall 2009, Fall 2010, Fall 2011, Fall 2012.

Genetics 681:502, four lectures in Drosophila genetics, Spring 2002, Spring 2003, Spring 2004, Spring 2005, Spring 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010, Spring 2011, Spring 2012, Spring 2013

Co-director: Molecular Biosciences 538: 6 credit core course for PhD students, Fall 2013.

Research Training

Graduate Students:

Ph.D. advisor to Hao Liu, Summer 1997 to Summer 2001 (graduated)
Ph.D. advisor to Elizabeth Manheim, June 1998 to August 2002 (graduated)
Ph.D. advisor to Sonham Mehrotra, Summer 2001 to Fall 2006 (graduated)
Ph.D. advisor to Jeffrey Cesario, Fall 2005 – graduated Fall 2010 (graduated)
Ph.D. advisor to Eric Joyce, Fall 2005 to Spring 2010 (graduated)
M.Sc. advisor for Susan Doubilet, Spring 2007 (graduated)
M.Sc. advisor to Sanese White, Summer 2009 – Spring 2012 (graduated)
Ph.D. advisor to Arunika Das, Summer 2010 – present
M.Sc. advisor to Mahrose Mehdi, Fall 2011 – Graduated fall 2013
Ph.D. advisor to Mercedes Gyuricza, Summer 2012 – present

Post-Doctoral

Changjian Wu: Fall 2005 – Spring 2008
Sarah Radford: Spring 2007 - present

Thesis and oral exam committee member for Graduate Students:

Pradeep Das (Richard Padgett)	Ph.D. Graduated 2002
Ritcha Wilson (Ken Irvine)	Ph.D. Graduated 2000
Xin Yu (Abram Gabriel)	Ph.D. Graduated 2002
Seo-Hee Cho (Richard Padgett)	Ph.D. Graduated 2001
Jian Yang (Ken Irvine)	M.Sc. Graduated 2000
Kristin Listner (Monica Driscoll)	M.Sc. Graduated 2001
Sean Hanlon (Andrew Vershon)	Ph.D. Graduated 2003
Bill Fricke (Steven Brill)	Ph.D. Graduated 2003
Liang Lei (Ken Irvine)	Ph.D. Graduated 2004
Brian Geldziler (Andy Singson)	Ph.D. Graduated 2005
Cesar Ayala (Jay Tischfiled)	M.Sc. Graduated 2005
Julio F. Barrera-Oro (Jay Tischfield)	Ph.D. Graduated 2007
Donna Walker (Nancy Walworth)	M.Sc. Graduated 2007
Sung-Yeon Park (Vincenzo Pirrotta)	Ph.D. Graduated 2008
Kaitlin Guzzi (Mark Brenneman)	M.Sc. Graduated 2008
Ying Li (Rick Padgett)	Ph.D. Graduated 2010
Simon Warburton-Pitt (M. Barr)	Ph.D.
Lynda Tuberty-Vaughan (Brill)	M.Sc. Graduated 2011
Mihai Miclaus (J. Messing)	Ph.D. Graduated 2011
Csanad Gurdon (Maliga)	Ph.D.

Gongping Sun (Irvine) Ph.D. Graduated 2014

External examiner for Ph.D. thesis defense:

Eric White (David B. Kaback, supervisor), UMDNJ – Newark Feb. 2002
Neal Mitra (Shirleen Roeder, supervisor), Yale April 2007.

Undergraduate Students:

Kristin Nycz, Spring 1997 to Summer 1998
Eric Chang, Spring 1997 to Fall 1997
Robin Ghandi, Summer 1997 to Spring 1998
Danielle Dominic, Summer 1998 - Spring 1999
Dalia Perelmuter, Summer 1998 to Summer 2001
Rajal Patel, Summer 1998 to Fall 1998
Babak Daftari, Spring 1999
Rathi Patel, Fall 1999
Ching Wang, Fall 1999 – Summer 2000
Kelly Quinta, Spring 2000 – Spring 2001
Andrew Yanofsky, Summer 2000 – Summer 2001
Dwithya Krishnan, Summer 2000 –Spring 2001
Justin Post, Fall 2000 – Spring 2001
Taslima Rahman Summer 2001 – Spring 2002
Lisa Ciocie, Fall 2001 to Spring 2002
Vanessa Kober, Spring 2002 – Spring 2003
Steven Eagle, Summer 2002 – Fall 2002
Vinod Singaram, Summer 2002 – Spring 2005
Palak Doshi, Summer 2003 – Spring 2004
Bethany Redding, Summer 2003 – Spring 2005
Eric Joyce, Summer 2003 – Spring 2004
Nishit Shah, Spring 2004 – Spring 2005
Matthew Hanlon, Spring 2005 – Fall 2006
Sejal Ghandi, Spring 2005 – Fall 2006
Sujal Patel, Spring 2005 – Fall 2005
Apple Long, Summer 2005 – Spring 2008
Shree Tanneti, Summer 2005 – Spring 2008
Sona Jasani, Spring 2006 – Spring 2008
Benson Fan, Summer 2006 – Spring 2009
Audrey Reusch, Summer 2007 – Fall 2008
Andrew Harrison, Fall 2007 – Spring 2010
Nismah Sarmast, Summer 2008 – Fall 2009
Shital Shah, Summer 2008 – Summer 2010
Anand Patel, Fall 2008 – Spring 2010
Kathryn Landy, Summer 2009 - Spring 2012
James Ruggero, Summer 2009 – Spring 2012
Gillian Eigo, Spring 2010 – Summer 2010
Anshu Paul, Summer 2010 – present
Tranchau Hoang, Summer 2010 – present
Daniel J. DiSanto, Spring 2011 – present

Allysa Go, Summer 2011 – present
Victoria Wagner, Fall 2011 – present
Rachel Battaglia, Summer 2012 – present
Julius Cassin, Fall 2012 – Fall 2013
Shristi Sharma, Summer 2013 – present
Daniel Paik, Fall 2013 - present

Service – Scientific Community

Member, CSRS (formerly NDT) study section, National Institutes of Health (2008 - 2012)

Grant Review Panel, NDT, National Institutes of Health (2007)

Grant Review Panel, Meiosis, National Institutes of Health (2006)

Grant Review Panel, DEV-1 Study section, National Institutes of Health (2005).

Grant Review Panel: Genetics study section, National Science Foundation (2001, 2002, 2008).

Grant Review Panel: Molecular Biology Section, Department of Defense Breast Cancer Research Program (1997, 1999).

Grant Review Panel: Molecular Biology Section, Department of Defense Ovarian Cancer Research Program (1999).

Reviewer for grant proposals submitted to the National Science Foundation, the American Cancer Society, the American Diabetes Association, the Roy J. Carver Charitable Trust.

Reviewer for grant proposals submitted to the Natural Sciences and Engineering Research Council of Canada

Reviewer for grant proposals submitted to the The Wellcome Trust (UK), Cancer Research UK, Fondazione Telethon (Itlay), the Austrian Science Fund.

Reviewer for manuscripts submitted to Genetics, Journal of Cell Science, EMBO, DNA Repair, Science, Current Biology, FEBS Letters, Cell, Developmental Cell, Mutation Research, Molecular and Cellular Biology, PLOS Genetics, Developmental Dynamics, Development, Developmental Biology, Molecular Biology of the Cell, Nature Methods, Genes and Development.

Reviewed chapters from “Modern Genetic Analysis”, by Griffiths *et al.* and published by Freeman, an introductory Genetics course textbook (5/2001).

Reviewed chapters from **“**iGenetics”, published by Benjamin/Cummings; a new Electronic Media/ Web-text hybrid for introductory Genetics courses (12/99).

Reviewed chapters from "Genetics" by Hartwell *et al.* Modern Genetic Analysis" and published by McGraw Hill, an introductory Genetics course textbook (12/2002).

Service - Rutgers University

Curriculum Committee, Department of Genetics 1999-2007

Search Committee for Waksman Institute, 1998, 1999

Curriculum and Graduate Program Committee for Waksman Institute 1997 – 2006

Admissions committee, Biotechnology training program 1999 - 2003

Graduate Student Rotation/Advisory committee, Joint Program in Molecular Biosciences. 1998 - 2003

Admissions committee, Joint Program in Molecular Biosciences. 2003 – 2011

Appointments and Promotions Committee, Faculty of Arts and Sciences/ School of Arts and Sciences 2003 – 2005, 2009, 2011

Search Committee, Human Genetics Position, Department of Genetics 2005

New Brunswick Faculty Council, New Brunswick Research Centers and Institutes representative, Fall 2005 – 2007.

FASIP Peer Evaluation Committee, Department of Genetics, Fall 2005, Fall 2008.

Search Committee, Human Genetics Position, Department of Genetics 2006-2007

Curriculum and Graduate Program Committee for Waksman Institute 1997 – 2006

Busch Funds Committee, Waksman Institute 2007-present

Peer Evaluation Committee, Department of Genetics, Spring 2009

Waksman PEC, Spring 2010

Search Committee, Chair, Department of Genetics 2009-2010

Aresty Faculty Review Board 2012

Chair, Curriculum Committee, Joint Graduate Program in Molecular Biosciences, 2012- present