Diana E. Libuda, PhD

University of Oregon, Department of Biology and Institute of Molecular Biology
1370 Franklin Blvd, Streisinger Hall 375; Eugene, OR 97403
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EDUCATION:

Harvard University September 2003 – April 2008
Ph.D., Department of Genetics
Dissertation Topic: Identification and characterization of histone gene amplification as a method for dosage compensation in *Saccharomyces cerevisiae*

University of California, Los Angeles September 1999 – June 2003
B.Sc., Molecular, Cell, and Developmental Biology with Music History minor
Summa cum laude, Highest Departmental Honors, Phi Beta Kappa
Honors Thesis Topic: Characterization of the role of BMP-11 in mouse neuronal development

RESEARCH EXPERIENCE:

Assistant Professor September 2015 – current
University of Oregon, Institute of Molecular Biology and Department of Biology
Research Topics: DNA repair, recombination, and chromosome dynamics during meiosis; molecular genetics of sperm and egg development; genetic engineering of germ cells

Postdoctoral Fellow September 2008 – December 2014
Dr. Anne M. Villeneuve, Department of Developmental Biology, Stanford University
Research Topics: meiosis in *C. elegans;* double strand DNA break repair; meiotic recombination; recombination pathway and partner decisions; crossover interference

Graduate Student Fellow January 2004 – August 2008
Dr. Fred Winston, Department of Genetics, Harvard Medical School
Research Topics: gene expression in *Saccharomyces cerevisiae*; retrotransposon recombination; gene amplification and histone dosage compensation; transcriptional regulation and chromatin structure

Undergraduate Research Scholar April 2002 – June 2003
Dr. Karen M. Lyons, Department of Molecular, Cell, and Developmental Biology, UCLA
Research Topics: growth factor signaling in mammalian development and disease; skeletal and neuronal development in mouse

Laboratory Assistant I June 2001– January 2003
Dr. Susan L. Forsburg, Molecular and Cell Biology Laboratory, Salk Institute for Biological Studies
Research Topics: mitotic and meiotic DNA replication in *Schizosaccharomyces pombe*

Undergraduate Researcher January 2001– March 2002
Dr. Wayne W. Grody and Dr. Ramaswamy K. Iyer, Department of Pathology and Laboratory Medicine, UCLA
Research Topic: mouse modeling of Human Arginase Deficiency; development of gene therapeutics

FUNDING:

Active:

2018 – 2023 NIGMS ESI R35 MIRA Award ($1.25 million direct costs)
Recombination pathway and partner choice during meiosis

2017 – 2020 Searle Scholar Award ($300,000 direct costs)
Dissecting the mechanisms of temperature-induced DNA damage during spermatogenesis

Completed:

2017 – 2019 March of Dimes Basil O'Connor Starter Scholar Award ($136,364 direct costs)
Double strand DNA break repair dynamics during meiosis
2015 – 2018 R00 NIH Pathway to Independence Award HD076165 ($558,959 direct costs)
Recombination pathway and partner choice during C. elegans meiosis
2013 – 2014 K99 NIH Pathway to Independence Award HD076165 (Priority/Impact Score of 10)
2012 – 2013 Katharine D. McCormick Advanced Postdoctoral Fellowship
2009 – 2012 Helen Hay Whitney Foundation Postdoctoral Fellowship
2009 Stanford Dean's Postdoctoral Fellowship
2006 – 2008 Illick Fellow, Albert J. Ryan Foundation Fellowship
2003 – 2006 National Science Foundation Graduate Fellowship
2002 – 2003 Barry M. Goldwater Scholarship
2002 – 2003 Ingram Scholarship, UCLA Undergraduate Research Scholarship
1999 Los Rancheros Kiwanis Club Dr. Hap Neufeld Memorial Scholarship
1999 Poway Kiwanis Club Scholarship
1999 San Diego Naval Officers' Wives' Club Scholarship
1999 KIWIN'S Cal-Nev-Ha District Scholarship

HONORS AND AWARDS:

2015 – 2016 National Academies Education Fellow in the Life Sciences
2013 Best Talk Prize, Bay Area Worm Meeting
2012 Best Poster Prize, Bay Area Meiosis Meeting
2003 UCLA MCD Biology Department Outstanding Graduating Senior Research Award
2003 Phi Beta Kappa National Honor Society
2003 Golden Key National Honor Society
2003 UCLA Dean's Prize Award for Scientific Poster Presentation
2001 UCLA MCDB Writing Award for Scientific Technical Writing
2001 UCLA MCDB Gold Star Award
1999 Kiwanis Cal-Nev-Ha District Hope of America Award

PUBLICATIONS (*corresponding author):

Cori K. Cahoon, Jacquellyn M. Helm, and DIANA E. LIBUDA*. Synaptonemal complex directs crossover-promoting proteins during *Caenorhabditis elegans* meiosis. ***Genetics,*** *under revision*

Cori K. Cahoon and DIANA E. LIBUDA*. Painting chromosomes in the nucleus. ***eLife,*** 2019 May 14;8. pii: e47468. doi: 10.7554/eLife.47468.

Cori K. Cahoon and DIANA E. LIBUDA*. Leagues of their own: Sexually dimorphic features of meiotic prophase I. ***Chromosoma,*** 2019 Mar 2. doi: 10.1007/s00412-019-00692-x [ePub ahead of print].

Gregory S. Barsh, Needhi Bhalla, Francesca Cole, Gregory P. Copenhaver G, Soni Lacefield, and DIANA E. LIBUDA (2018). 2018 PLOS Genetics Research Prize: Bundling, stabilizing, organizing- The orchestration of acentriolar spindle assembly by microtubule motor proteins. ***PLoS Genet.*** Sep 13;14(9):e1007649.

Mara Schvarzstein, Divya Pattabiraman, DIANA E. LIBUDA, Ajit Ramadugu, Angela Tam, Enrique Martinez-Perez, Baptiste Roelens, Karl Zawadzki, Rayka Yokoo, Simona Rosu, Kentaro Nabeshima, and Anne M. Villeneuve (2014). DNA helicase HIM-6/BLM promotes MutSγ-dependent crossovers and antagonizes MutSγ-independent interhomolog associations during *C. elegans* meiosis. ***Genetics,*** 198(1), 193-207.

DIANA E. LIBUDA, Satoru Uzawa, Barbara J. Meyer, and Anne M. Villeneuve (2013). Meiotic chromosome structures constrain and respond to designation of crossover sites. ***Nature*** 502, 703-706.

(recommended in Faculty of 1000 by Gerald Smith and Mridula Nambiar)

Simona Rosu, Karl A. Zawadzki, Ericca L. Stamper, DIANA E. LIBUDA, Angela L. Reese, Abby F. Dernburg, and Anne M. Villeneuve (2013). The *C. elegans* DSB-2 protein reveals a regulatory network that controls competence for meiotic DSB formation. ***PLoS Genetics*** 9(8): e1003674.

Simona Rosu, DIANA E. LIBUDA, and Anne M. Villeneuve (2011). Robust crossover assurance and regulated interhomolog access maintain meiotic crossover number. ***Science*** 334, 1286-9.
(recommended in Faculty of 1000 by Morris Maduro)

DIANA E. LIBUDA and Fred Winston (2010). Alterations in DNA replication and histone levels promote histone gene amplification in *Saccharomyces cerevisiae*. ***Genetics,*** 184, 985-97.

DIANA E. LIBUDA and Fred Winston (2006). Amplification of histone genes by circular chromosome formation in *Saccharomyces cerevisiae*. ***Nature,*** 443, 1003-7.
(recommended in Faculty of 1000 by Linda Breeden)

Sanja Ivkovic, Byeong S. Yoon, Steven N. Popoff, Fayez F. Safadi, DIANA E. LIBUDA, Robert C. Stephenson, Aaron Daluiski, and Karen M. Lyons (2003). Connective Tissue Growth Factor is an essential regulator of skeletal development. ***Development*****,** 130, 2779-91.

Manuscripts Pending (*corresponding author) –
Nicole A. Kurhanewicz, Fountane Chan, and DIANA E. LIBUDA* piRNA-based control of temperature-induced DNA damage in spermatocytes. *In preparation*

Marissa L. Glover, Jeremy Hollis, Aleesa Schlientz, Bruce Bowerman, Sadie M. Wignall, and DIANA E. LIBUDA*. Occurrence of multiple crossovers inhibits proper chromosome segregation during *C. elegans* meiosis. *In preparation*

Erik Toraason, Marissa L. Glover, Cordell Clark, and DIANA E. LIBUDA* Repair partner preferences switch from the homologous chromosome to the sister chromatid during late meiotic prophase. *In preparation*

Erik Toraason, Victoria Adler, and DIANA E. LIBUDA* Efficiency of homologous recombination pathways decline with age in *Caenorhabditis elegans* oocytes. *In preparation (anticipated submission Winter 2020)*

Austin Harvey and DIANA E. LIBUDA*. Crossover and noncrossover repair events exhibit unique dynamics and morphologies during early double strand DNA break repair stages. *In preparation*

PROFESSIONAL MEMBERSHIPS:
Genetics Society of America
Association for Women in Science
American Society for Cell Biology

TEACHING EXPERIENCE:
University of Oregon
Spring 2019 BI 320: Molecular Genetics
Sole instructor, 18 lectures

Fall 2017 BI 620: Molecular Genetics (for graduate students; formerly Bi 610)
Sole instructor, 18 lectures, 7 discussions
Overall course evaluation (12/14 students):
Mean: 4.4/5.0
Median: 5.0/5.0

Fall 2016 BI 610: Molecular Genetics (for graduate students)
Sole instructor, 18 lectures, 7 discussions
Overall course evaluation (13/15 students):
Mean: 4.2/5.0
Median: 4.0/5.0
Spring 2016 BI 610: Ethics in Life Science Research (Guest Lecturer)
Spring 2015 CAS 120: College Scholars Colloquium (Guest Lecturer)

Harvard Medical School (Teaching Fellow)
Fall 2004 Genetics 201: Introduction to Genetics (for graduate students)

Teaching Enrichment and Development
2016 – present University of Oregon Teaching Academy, Teaching Effectiveness Program
Summer 2015 National Academies Summer Institute on Scientific Teaching, Attendee/Fellow
Fall 2004 Harvard University Derek Bok Center for Teaching and Learning, Fall Teaching Conference

MENTORING EXPERIENCE:
University of Oregon Research Lab Members
Graduate Students (3):
Zac Bush (2019 – present)
Austin Harvey (2016 – 2018)
Erik Toraason (2017 – present)

Graduate Rotation Students (8):
Zac Bush (2018)
Austin Harvey (2015)
Rachel Hopton (2018)
Zach Stevenson (2018)
Emily Sutton (2015)
Erik Toraason (2016)
Stephanie VanBeuge (2018)
Elizabeth Vargas (2019)

Postdoctoral Scholars (2):
Cori Cahoon (2018 – present)
Nicole Kurhanewicz (2017-present)

Faculty "Rotation Student" (1):
Nadia Singh (2018)

Sabbatical Faculty (2):
Kenneth Hillers (2019) – Cal Poly San Luis Obispo (Chair of Biology)
David Wynne (2018, 2019) – University of Portland

PhD Staff Scientists (1):
Nicole Kurhanewicz (2016-2017)

Research Assistants (4):
Victoria Adler (2019 – present)
Marissa Glover (2015 – 2017) – PhD student at UCSC (NSF GRFP Fellow)
Jackie Helm (2015 – 2018) – stay at home mother
Jennifer Lawson (2018) – Nemametrix/Knudra Transgenics

Vashti Stutsman (2019 – present)

Undergraduates (17):
Fountane Chan (2018 – 2019) – NIH IRTA post-baccalaureate program (Judith Kassis' lab)
Cordell Clark (2016 – 2018) – technician in Sue Biggins Lab (HHMI, Hutch Cancer Center)
Alexandra Cohen (2015 – 2016)
Coohleen Coombes (SPUR/MARC summer student 2017)
Rachel David (2015 – 2018) – OSHU medical school
Cailan Feingold (2018 – present)
Quincey Fish (2018 – present)
Anna Horacek (2018 – 2019) – NIH IRTA post-baccalaureate program (Judith Kassis' lab)
Ryan Kozak (2015)
Colin Maxwell (2017 – 2018) – product specialist at Qualtrics
Adriana Mendizabal (SPUR summer student 2018) – PhD student at UC Berkeley
Brittany Owen (2015 – 2018) – Johns Hopkins Bioinformatics M.S. Program
Alina Salagean (2018 – present)
Ruben Sanchez Flores (2018)
Kaycee Schoellhorn (2016 – 2017) – teacher's aide
Nikki Szczepanski (2018)
Alex Wong (2018)

Honors/Awards of Lab Members
Jane Coffin Childs Postdoctoral Fellowship (Cori Cahoon 2019-2022)
National Institutes of Health F32 NRSA Postdoctoral Fellowship (Nicole Kurhanewicz 2018-2020)
University of Oregon Undergraduate Research Symposium Biology Poster Award, 1st place (Fountane Chan 2019)
University of Oregon Graduate Research Forum Panel Award, 1st place (Erik Toraason 2019)
University of Oregon Vice President of Research and Innovation Fellowship (Nicole Szczepanski 2018)
University of Oregon Center for Undergraduate Research and Engagement Fellowship (Fountane Chan 2018)
University of Oregon Undergraduate Research Symposium Biology Poster Award, 2nd place (Cordell Clark 2018)
University of Oregon Women of Graduate Science Undergraduate Summer Research Award (Nicole Szczepanski 2018)
NSF Graduate Research Fellowship Honorable Mention (Erik Toraason 2018)
University of Oregon Departmental Biochemistry Achievement Award (Rachel David 2018)
University of Oregon Departmental Honors Thesis (Cordell Clark 2018)
University of Oregon Institute of Molecular Biology Adamson Award (Erik Toraason 2017)
University of Oregon Department of Biology Teaching Award (Erik Toraason 2017)
OHSU CDCB Summer Research Internship Program (Rachel David 2016)
University of Oregon OURS Summer Research Program (Brittany Owen 2016, Cordell Clark 2017, Anna Horacek 2018, Alina Salagean 2019)
University of Oregon Alden Award (Rachel David 2017)
University of Oregon SPUR Summer Research Program (Coohleen Coombes 2017)
SACNAS Travel Award (Cordell Clark 2017)
University of Oregon Honors College Thesis with Honors(Kaycee Schoellhorn 2017, Rachel David 2018)
University of Oregon Honors College Thesis with Distinction (Colin Maxwell 2018)
University of Oregon Nominee for Marshall Scholarship (Fountane Chan 2018)

SERVICE:

Professional (National and International) –

Grant Review Panels –

2017 NSF EAGERS Grant
2016 NIGMS Scientific Review Group/Special Emphasis Panel: ZGM1 TWD-B (KR)

Manuscript Reviews – *Cell, Molecular Cell, eLife, Proceedings of the National Academy of Sciences, Journal of Cell Biology, Journal of Cell Science, Development (2), Molecular and Cellular Biology, PLoS One (2)*

Conference/Meeting Session Chair (Invited)–

2019 Chair, TBD Session, EMBO Meiosis Meeting
2019 Chair, Chromatin and chromosomes as substrates for recombination Session, FASEB Genetic Recombination and Genome Rearragements Conference
2019 Chair, Cell Biology Session, 22nd International *C. elegans* Meeting
2017 Chair, Checkpoints and Feedback Controls Session; EMBO Meiosis Meeting
2016 Chair, Gene Expression Session; Northwest Developmental Biology Meeting
2015 Chair, Cell Division and Cell Death Session, 20th International *C. elegans* Meeting

Meetings Organized-

April 2020 Scientific Program Committee, The Allied Genetics Conference (TAGC) for Genetics Society of America
April 2014 Bay Area Worm Meeting
June 2013 Winston Lab 30th Anniversary Reunion and Symposium

Invited Career Development Workshops/Symposiums-

August 2018 Stowers Institute "Faculty Position Interviews – Chalk Talks" Workshop
May 2018 Stowers Institute "How to get a Faculty Position" Workshop

University -

2018 – 2019 University of Oregon 13th Avenue Conceptual Design Project Advisory Committee
May 2018 University of Oregon Quack Chats Talk Series Speaker (public outreach talk)
2017 – 2018 University of Oregon and Knight Campus Imaging Core Creation Committee
2016 – present University of Oregon Campus Planning Committee
2017 University of Oregon Graduate Women in Science Scholarship Review Committee
2017 4th Floor Klamath Addition/Remodel Committee
2015 "Music Meets Science" Meselsohn-Stahl Experiment Concert and Celebration Organizer, University of Oregon Institute of Molecular Biology and Development Office

Institute of Molecular Biology -

2018 – present Molecular Biology and Biophysics Training Program Executive Committee
2017 – present Institute of Molecular Biology Executive Committee (elected position)
2017 Institute of Molecular Biology Space Committee
2017 Genetics Training Grant Imaging Workshop Organizer
2016 – 2018 Institute of Molecular Biology Imaging Core Facility Creation Faculty Advisory Committee
Fall 2016 University of Oregon Molecular Biology PhD Program Cumulative Exam Preparer
2015 – 2016 Manager and Trainer, Institute of Molecular Biology Structured Illumination and Laser Scanning Confocal Microscope
2015 – present Institute of Molecular Biology Structured Illumination Microscope Advisory Committee
2015 – 2016 Institute of Molecular Biology Imaging Core Facility Renovation Advisory Committee
2015 – 2017 Social Hour Organizer, University of Oregon Institute of Molecular Biology

Department of Biology -

2018 – present Graduate Admissions/Recruitment Committee, University of Oregon Department of Biology
2017 – 2018 Executive Committee, University of Oregon Department of Biology
2015 – 2017 Center for Genome Function Cluster Hire Faculty Search Committee, University of Oregon Institute of Molecular Biology
2014 – 2016 Graduate Admissions Committee, University of Oregon Department of Biology
2015 – 2016 Graduate Retreat Organizer, University of Oregon Department of Biology

Student Advisory Committees-

Dissertation Advisory Committee (Chair) – Kevin McNaught (Chair), Aleesa Schlientz, Annie Gilbert, Zach Stevenson
Qualifying Exam Committee – Aleesa Schlientz, Michelle Sconce, Amy Robbins, Heather LeBleu, Zach Stevenson
Interim Advisory Committee – Michelle Sconce, Erik Toraason, Stephanie VanBeuge, Michael Shavlik, Zachary Bush
Honors College Thesis Defense Committee – Collin Hickmann, Kaycee Schoellhorn, Rachel David, Colin Maxwell, Anna Horacek
Biology Honors Thesis Defense Committee – Cordell Clark, Anna Horacek
General Science Honors Thesis Defense Committee – Fountane Chan

PRESENTATIONS:

Invited Seminars –

DIANA E. LIBUDA "Why can't sperm take the heat?: revealing the mechanisms of temperature-induced DNA damage in developing sperm" University of North Carolina, Chapel Hill, October 2019

DIANA E. LIBUDA "Why can't sperm take the heat?: revealing the mechanisms of temperature-induced DNA damage in developing sperm" Harvard Medical School, Program in Genetics and Genomics Annual Symposium, Keynote Speaker, May 2019

DIANA E. LIBUDA "Why can't sperm take the heat?: revealing the mechanisms of temperature-induced DNA damage in developing sperm" University of Minnesota, November 2018

DIANA E. LIBUDA "Why can't sperm take the heat?: revealing the mechanisms of temperature-induced DNA damage in developing sperm" New York University, October 2018

DIANA E. LIBUDA "Why can't sperm take the heat?: revealing the mechanisms of temperature-induced DNA damage in developing sperm" Stowers Institute for Medical Research, May 2018

DIANA E. LIBUDA "Turning up the heat on partner choice: making and repairing DNA breaks during meiosis" Oregon State University, April 2018

DIANA E. LIBUDA "Turning up the heat on partner choice: making and repairing DNA breaks during meiosis" University of Texas MD Anderson Cancer Center, March 2018

DIANA E. LIBUDA "Turning up the heat on partner choice: making and repairing DNA breaks during meiosis" University of California, Davis, March 2018

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during meiosis" Oregon Institute of Marine Biology, April 2016

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during meiosis" Bloomberg School of Public Health at Johns Hopkins University, Department of Biochemistry and Molecular Biology Seminar Series, March 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during meiosis" University of Southern California, Program in Molecular and Computational Biology Seminar Series, March 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during meiosis" Perelman School of Medicine at the University of Pennsylvania, Department of Cell and Developmental Biology Seminar Series, March 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during *C. elegans* meiosis" Emory University, Department of Biology, Science Cafe Seminar Series, February 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during meiosis" University of Chicago, Department of Molecular Genetics and Cell Biology Seminar Series, February 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during *C. elegans* meiosis" University of Oregon, Institute of Molecular Biology and Department of Biology Seminar Series, February 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during *C. elegans* meiosis" University of Pittsburgh, Department of Biology Seminar Series, February 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during meiosis" National Institutes of Health, NICHD and NIDDK, February 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during *C. elegans* meiosis" Indiana University, Department of Biology Seminar Series, February 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during *C. elegans* meiosis" Massachusetts Institute of Technology, Department of Biology Special Seminar Series, January 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during *C. elegans* meiosis" University of Massachusetts Medical School Worcester, RNA Therapeutics Institute Seminar Series, January 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during meiosis" Rockefeller University Special Seminar Series, January 2014

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during *C. elegans* meiosis" University of Michigan, Department Molecular, Cellular, and Developmental Biology Seminar Series, January 2014

DIANA E. LIBUDA "Recombination pathway and partner choice during meiotic double strand break repair" National Institutes of Health, Stadtman Symposium Series, December 2013

DIANA E. LIBUDA "Making the right decision: repairing DNA breaks during *C. elegans* meiosis" Rutgers University, Department of Genetics Invited Speaker Seminar Series, October 2013

DIANA E. LIBUDA "Six crossovers of segregation: dual roles for the synaptonemal complex during *C. elegans* meiosis" University of California, Santa Cruz: MCDB Department Cell Biology Talk Series, April 2012

Conference Talks –

DIANA E. LIBUDA "TBD" Gordon Research Conference: Meiosis, June 2020

Nicole Kurhanewicz, Jacquellyn M. Helm, and DIANA E. LIBUDA "Temperature increases cause transposon-associated DNA damage specific to spermatocytes and not oocytes" Keystone Meeting: DNA Replication and Genome Instability, January 2019

Nicole Kurhanewicz, Jacquellyn M. Helm, and DIANA E. LIBUDA "Temperature increases cause transposon-associated DNA damage specific to spermatocytes and not oocytes" ASCB-EMBO Annual Meeting, December 2018

Nicole Kurhanewicz, Jacquellyn M. Helm, and DIANA E. LIBUDA "Temperature increases cause transposon-associated DNA damage specific to spermatocytes and not oocytes" Cold Spring Harbor Laboratories Germ Cells Meeting, October 2018

DIANA E. LIBUDA, Satoru Uzawa, Barbara J. Meyer, and Anne M. Villeneuve. "Meiotic chromosome structures constrain and respond to designation of crossover sites" EMBO Meiosis Meeting, September 2013

DIANA E. LIBUDA, Satoru Uzawa, Barbara J. Meyer, and Anne M. Villeneuve. "Meiotic chromosome structures constrain and respond to designation of crossover sites" 19th International *C. elegans* Meeting, Plenary Session Talk, June 2013

DIANA E. LIBUDA "Crossing over from Ty elements: meiotic chromosome structures constrain and respond to designation of crossover sites" Winston Lab 30th Anniversary Symposium, June 2013

DIANA E. LIBUDA, Satoru Uzawa, Barbara J. Meyer, and Anne M. Villeneuve. "Meiotic chromosome structures constrain and respond to designation of crossover sites" Bay Area Worm Meeting, April 2013

DIANA E. LIBUDA, Satoru Uzawa, Barbara J. Meyer, and Anne M. Villeneuve. "Meiotic chromosome structures constrain and respond to designation of crossover recombination sites" Keystone Symposia: DNA Replication and Recombination (joint with Keystone Symposia: Genomic Instability and DNA Repair), March 2013

DIANA E. LIBUDA, Rayka Yokoo, Michiko Hayashi, and Anne M. Villeneuve "Synaptonemal complex mediates crossover interference during meiosis" 18th International *C. elegans* Meeting, June 2011

DIANA E. LIBUDA and Fred Winston "Amplification of Histone Genes in *Saccharomyces cerevisiae*" Yeast Genetics and Molecular Biology Meeting, July 2006

DIANA E. LIBUDA and Fred Winston "Amplification of Histone Genes in *Saccharomyces cerevisiae*" Boston Area Yeast Meeting, April 2006

Conference Posters –

Erik Toraason, Marissa Glover, Cordell Clark, Anna Horacek, and DIANA E. LIBUDA "Regulation of sister chromatid repair maintains genomic integrity during meiosis" EMBO Meiosis Conference, August 2019

Nicole Kurhanewicz, Jacquellyn M. Helm, and DIANA E. LIBUDA "Temperature increases cause transposon-associated DNA damage specific to spermatocytes and not oocytes" Keystone Meeting: DNA Replication and Genome Instability, January 2019

Erik Toraason, Marissa Glover, and DIANA E. LIBUDA. "Recombination pathway and partner choice during meiotic double strand DNA repair" Gordon Research Conference: Meiosis, June 2018

Nicole A. Codd, Jacquellyn M. Helm, Kaycee Schoellhorn, and DIANA E. LIBUDA. "Temperature increases cause transposon-associated DNA damage specially during spermatogenesis" EMBO Meiosis Meeting, August 2017

Erik Toraason, Marissa Glover, and DIANA E. LIBUDA. "Germ cells switch from homolog to sister chromatid repair template bias during late meiotic prophase I" FASEB Research Conference: Genetic Recombination and Genome Rearrangements, July 2017

Jacquellyn Helm, Marissa Glover, Austin Harvey, and DIANA E. LIBUDA. "Recombination pathway and partner choice during meiotic double strand DNA repair in *C. elegans*" NCI Symposium on Chromosome Biology, November/December 2016

Jacquellyn Helm, Marissa Glover, Austin Harvey, and DIANA E. LIBUDA. "Recombination pathway and partner choice during meiotic double strand DNA repair in *C. elegans*" Gordon Research Conference: Meiosis, June 2016

DIANA E. LIBUDA and Anne M. Villeneuve. "Synaptonemal complex directs crossover-promoting proteins to meiotic interhomolog recombination events" Gordon Research Conference: Meiosis, June 2014

DIANA E. LIBUDA, Satoru Uzawa, Barbara J. Meyer, and Anne M. Villeneuve. "Meiotic chromosome structures constrain and respond to designation of crossover sites" EMBO Meiosis Meeting, September 2013

DIANA E. LIBUDA, Satoru Uzawa, Barbara J. Meyer, and Anne M. Villeneuve. "Meiotic chromosome structures constrain and respond to designation of crossover sites" FASEB Research Conference: Genetic Recombination and Genome Rearrangements, July 2013

DIANA E. LIBUDA, Satoru Uzawa, Barbara J. Meyer, and Anne M. Villeneuve. "Meiotic chromosome structures constrain and respond to designation of crossover sites" Keystone Symposia: DNA Replication and Recombination (joint with Keystone Symposia: Genomic Instability and DNA Repair), March 2013

DIANA E. LIBUDA, Rayka Yokoo, and Anne M. Villeneuve. "Promoting and inhibiting meiotic crossovers: dual roles for the synaptonemal complex" Gordon Research Conference: Meiosis, June 2012

DIANA E. LIBUDA, Rayka Yokoo, Karl Zawadzki, Michiko Hayashi, and Anne M. Villeneuve "Synaptonemal complex mediates crossover interference during meiosis" FASEB Research Conference: Genetic Recombination and Genome Rearrangements, July 2011

DIANA E. LIBUDA, Rayka Yokoo, and Anne M. Villeneuve "Synaptonemal complex restricts crossover-promoting proteins to meiotic interhomolog recombination events" Keystone Symposia: DNA Replication and Recombination, February 2011

DIANA E. LIBUDA and Anne M. Villeneuve "Recombination pathway and partner choice during meiotic double strand break repair in *C. elegans*" FASEB Research Conference: Genetic Recombination and Genome Rearrangements, July 2009

DIANA E. LIBUDA and Anne M. Villeneuve "Recombination pathway and partner choice during meiotic double strand break repair in *C. elegans*" 17th International *C. elegans* Meeting, June 2009

DIANA E. LIBUDA and Fred Winston "Induction of histone gene amplification by reduced histone levels and replication fork pauses in *Saccharomyces cerevisiae"* Yeast Genetics and Molecular Biology Meeting, July 2008

DIANA E. LIBUDA and Fred Winston "Analysis of the Regulation of Histone Gene Amplification in *Saccharomyces cerevisiae*" FASEB Research Conference: Chromatin and Transcription, July 2007

DIANA E. LIBUDA and Fred Winston "Amplification of Histone Genes in *Saccharomyces cerevisiae*" Gordon Research Conference: Chromosome Dynamics, August 2005

DIANA E. LIBUDA, Sanja Ivkovic, and Karen M. Lyons "Characterization of BMP-11 in the Dorsal-Ventral Patterning of the Spinal Cord" UCLA Undergraduate Science Poster Day, May 2003

DIANA E. LIBUDA, Sanja Ivkovic, and Karen M. Lyons "Characterization of BMP-11 in the Dorsal-Ventral Patterning of the Spinal Cord" Council on Undergraduate Research Posters on the Hill National Conference, April 2003

PRESENTATIONS (by lab members, presenting author underlined):
Conference Talks (selected from submitted abstracts)–
Nicole A. Kurhanewicz, Fountane Chan, and Diana E. Libuda. "Temperature increases cause transposon-associated DNA damage specifically during spermatogenesis" EMBO Meiosis Conference, August 2019

Nicole A. Kurhanewicz, Fountane Chan, and Diana E. Libuda. "Temperature increases cause transposon-associated DNA damage specifically during spermatogenesis" 22nd International *C. elegans* Meeting, June 2019

Erik Toraason, Marissa Glover, Cordell Clark, Anna Horacek, and Diana E. Libuda "Regulation of sister chromatid repair maintains genomic integrity during meiosis" 22nd International *C. elegans* Meeting, June 2019

Nicole A. Kurhanewicz, Jacquellyn M. Helm, and Diana E. Libuda. "Temperature increases cause transposon-associated DNA damage specifically during spermatogenesis" 21st International *C. elegans* Meeting, June 2017

Conference Posters -
Cori K. Cahoon, Nicole A. Kurhanewicz, and Diana E. Libuda. "Investigating mechanisms of synaptonemal complex heat-sensitivity during *C. elegans* spermatogenesis" EMBO Meiosis Meeting, August 2019

Erik Toraason, Marissa Glover, Cordell Clark, Anna Horacek, and Diana E. Libuda "Regulation of sister chromatid repair maintains genomic integrity during meiosis" FASEB Conference: Genetic Recombination and Genomic Rearrangements, July 2019

Victoria Adler, Gaotian Zhang, Erik C. Andersen, and Diana E. Libuda. "Characterization of meiotic prophase I in a natural isolate of *Caenorhabditis elegans*" 22nd International *C. elegans* Meeting, June 2019

Anna Horacek, Erik Toraason, Cordell Clark, and Diana E. Libuda. "Mechanisms of sister chromatid repair during meiotic double strand DNA break repair" 22nd International *C. elegans* Meeting, June 2019

Cori K. Cahoon, Nicole A. Kurhanewicz, and Diana E. Libuda. "Investigating mechanisms of synaptonemal complex heat-sensitivity during *C. elegans* spermatogenesis" 22nd International *C. elegans* Meeting, June 2019

Nicole A. Kurhanewicz, Jacquellyn M. Helm, and Diana E. Libuda. "Temperature increases cause transposon-associated DNA damage specifically during spermatogenesis" Gordon Research Conference: Meiosis, June 2018

Cordell Clark, Erik Toraason, Marissa L. Glover, and Diana E. Libuda "Assessing the role of the SMC-5/6 Complex in meiotic double strand break repair" SACNAS Conference, October 2017

Austin M. Harvey and Diana E. Libuda "Investigating the role of early double strand DNA break repair dynamics on repair pathway and partner choices during meiosis" 21st International *C. elegans* Meeting, June 2017

REFERENCES:

Anne M. Villeneuve, PhD
Professor of Developmental Biology and Genetics
Stanford University School of Medicine
Dept. of Developmental Biology
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Beckman Center, B300
Stanford, CA 94305-5329
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Barbara J. Meyer, PhD
Howard Hughes Investigator
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