

PUBLICATIONS

1. Sim, R.J., **Harrison, M.M.**, Moxon, E.R., and C.M. Tang. (2000) Underestimation of meningococci in tonsillar tissue by nasopharyngeal swabbing. *Lancet*. 356: 1653-1654.
2. Davison, E.M., **Harrison, M.M.**, Walhout, A.J., Vidal, M., and H.R. Horvitz. (2005) *lin-8*, which antagonizes *Caenorhabditis elegans* Ras-mediated vulval induction, encodes a novel nuclear protein that interacts with the LIN-35 Rb protein. *Genetics*. 171: 1017-1031.
3. Ceol, C.J., Stegmeier, F., **Harrison, M.M.**, and H.R. Horvitz. (2006) New classes of genes that act as negative regulators of *let-60* Ras signaling in *Caenorhabditis elegans*. *Genetics*. 173: 709-726.
4. **Harrison, M.M.**, Ceol, C.J., Lu, X., and H.R. Horvitz. (2006) Some *C. elegans* class B synMuv proteins encode a conserved LIN-35 Rb-containing complex distinct from a NuRD-like complex. *Proc Natl Acad Sci USA*. 103: 16782-16787.
5. **Harrison, M.M.**, Lu, X. and H.R. Horvitz. (2007) LIN-61, one of two *Caenorhabditis elegans* malignant-brain-tumor-repeat-containing proteins, acts with DRM and NuRD-like protein complexes in vulval development but not in certain other biological processes. *Genetics*. 176: 255-271.
6. **Harrison, M.M.**, Botchan, M.R. and T.W. Cline. (2010) Grainyhead and Zelda compete for binding to the promoters of the earliest-expressed *Drosophila* genes. *Dev Biol*. 345: 248-255.
7. Cline, T.W., Dorsett, M., Sun, S., **Harrison, M.M.**, Dines, J., Sefton, L., and L. Megna. (2010) Evolution of the *Drosophila* feminizing switch gene *Sex-lethal*. *Genetics*. 186:1321-1336.
8. Tabuchi, T.M., Deplancke, B., Osato, N., Zhu, L.J., Barrasa, I.M., **Harrison, M.M.**, Horvitz, H.R., Walhout, A.J. and K.A. Hagstrom. (2011) Chromosome-Biased Binding and Gene Regulation by the *Caenorhabditis elegans* DRM Complex. *PLoS Genetics*. 7:e1002074.
9. **Harrison, M.M.** *, Li, X.Y*. Kaplan, T. *, Botchan, M.R., and M.B. Eisen. (2011) Zelda Binding in the Early *Drosophila melanogaster* Embryo Marks Regions Subsequently Activated at the Maternal-to-Zygotic Transition. *PLoS Genet*. 7:e1002266.
 highlighted in *Nature Reviews Genetics* and recommended by Faculty of 1000
 * contributed equally
10. Gratz, S.J., Cummings, A.M., Nguyen, J.N., Hamm, D.C., Donohue, L.K., **Harrison, M.M.***, Wildonger, J.* and K.M. O'Connor-Giles*. (2013) Genome engineering of *Drosophila* with the CRISPR RNA-guided Cas9-nuclease. *Genetics*. 194:1029-1035.
 recommended by Faculty of 1000 and cited more than 800 times
 over 1100 samples distributed by Addgene on our behalf
 * corresponding authors
11. Gratz, S.J., Wildonger, J., **Harrison, M.M.**, and K.M. O'Connor-Giles. (2013) CRISPR/Cas9-mediated genome engineering and the promise of designer flies on demand. *Fly*. 7:249-255.
12. **Harrison, M.M.**, Jenkins, B.V., O'Connor-Giles, K.M. and J. Willdonger. (2014) A CRISPR view of development. *Genes Dev*. 28: 1859-1872.
 remained in the top 5 most read articles at *Genes and Development* for more than 2 years after publication

13. Li, X.Y., **Harrison, M.M.**, Villalta, J.E., Kaplan, T. and M.B. Eisen. (2014) Establishment of regions of genomic activity during the *Drosophila* maternal to zygotic transition. *eLife*.3: doi 10.7554/eLife.03737.
14. Akbari, O.S., Bellen, H.J., Bier, E., Bullock, S.L., Burt, A., Church, G.M., Cook, K.R., Duchek, P., Edwards, O.R., Esvelt, K.M., Gantz, V.M., Golic, K.G., Gratz, S.J., **Harrison, M.M.**, Hayes, K.R., James, A.A., Kaufman, T.C., Knoblich, J., Malik, H.S., Matthews, K.A., O'Connor-Giles, K.M., Parks, A.L., Perrimon, N., Port, F., Russell, S., Ueda, R., Wildonger, J. (2015) BIOSAFETY. Safeguarding gene drive experiments in the laboratory. *Science* 349: 927-929.
15. Hamm, D.C., Bondra, E.R., and **M.M. Harrison**. (2015) Transcriptional activation is a conserved feature of the early embryonic factor Zelda that requires a cluster of four zinc fingers for DNA binding and a low-complexity activation domain. *J Biol Chem*. 290: 3508-3518.
16. Gratz, S.J., **Harrison, M.M.**, Wildonger, J. and K.M. O'Connor-Giles. (2015) Precise Genome Editing of *Drosophila* with CRISPR RNA-guided Cas9. *Methods in Molecular Biology CRISPR:Methods and Protocols*. 1311: 335-348.
17. Gratz, S.J., Rubinstein, C.D., **Harrison, M.M.**, Wildonger, J. and K.M. O'Connor-Giles. (2015) CRISPR-Cas9 Genome Editing in *Drosophila*. *Curr Protoc Mol Biol*. 111: 31.2.1-31.2.20.
18. **Harrison, M.M.** and M.B. Eisen. (2015) Transcriptional activation of the zygotic genome in *Drosophila*. *Curr Top Dev Biol*. 113: 85-112.
19. Schulz, K.N., Bondra, E.R., Villalta, J.E., Lieb, J.D., Kaplan, T., McKay, D.J., and **M.M. Harrison**. (2015) Zelda is differentially required for chromatin accessibility, transcription-factor binding and gene expression in the early *Drosophila* embryo. *Genome Res* 25: 1715-1726.
20. Nevil, M., Bondra, E.R., Schulz, K.N., Kaplan, T., and **M.M. Harrison**. (2017) Genome-wide analysis of the conserved transcription factor Grainy head reveals stable binding to target genes during development. *Genetics* 205: 605-620.
21. Janssens, D.H., Hamm, D.C., Xiao, Q., Anhezini De Araujo, L., Siller, K.H., Siegrist, S.E., **Harrison, M.M.**, and C.Y. Lee. (2017) A novel Hdac1/Rpd3-poised circuit balances continual self-renewal and rapid restriction of developmental potential during asymmetric stem cell division. *Dev Cell* 40: 367-380.
22. Hamm, D.C., Larson, E.D., Nevil, M.N., Marshall, K., Bondra, E.R., and **M.M. Harrison**. (2017) A conserved maternal-specific repressive domain in Zelda revealed by Cas9-mediated mutagenesis in *Drosophila melanogaster*. *PLoS Genet* 13:e1007120.
selected for a Perspective in *PLoS Genetics*
23. Bier, E., **Harrison, M.M.**, O'Connor-Giles, K.M., and J. Wildonger. (2018) Advances in Engineering the Fly Genome with the CRISPR-Cas System. *Genetics* 208: 1-18.
24. Schulz, K.N. and **M.M. Harrison**. (2018) Zygotic genome activation: The dawn of independence. In M. K. Skinner (Ed.) *Encyclopedia of Reproduction* vol 3: 320-325.
25. Hamm, D.C. and **M.M. Harrison**. (2018) Regulatory principles governing the maternal-to-zygotic transition: insights from *Drosophila melanogaster*. *Open Biol*. 8: 180183.

26. Dufourt, J., Trullo, A., Hunter, J., Fernandez, C., Lazaro, J., Dejean, M., Morales, L., Nait-Amer, S., Schulz, K.N., **Harrison, M.M.**, Favard, C., Radulescu, O., Lagha, M. (2018) Temporal control of gene expression by the pioneer factor Zelda through transient interactions in hubs. *Nat. Commun.* 9: 5194.
27. Mir, M., Stadler, M.R., Ortiz, S., **Harrison, M.M.**, Darzacq, X., and M.B. Eisen. (2018) Dynamic hubs of the pioneer factor Zelda organize pattering factor binding but are not stably associated with sites of active transcription. *eLife*. 7:e40497.
28. Schulz, K.N. and **M.M. Harrison**. (2019) Mechanisms regulating zygotic genome activation. *Nat. Rev. Genet.* 20:221-234.
29. McDaniel, S.L., Gibson, T.J., Schulz, K.N., Fernandez Garcia, M., Nevil, M.N., Jain, S.U., Lewis, P.W., Zaret, K.S., and **M.M. Harrison**. (2019) Continued activity of the pioneer factor Zelda is required to drive zygotic genome activation. *Mol Cell*. 74:185-195.
30. Reese, R.M., **Harrison, M.M.**, and E.T. Alarid. (2019) Grainyhead-like protein 2: The emerging role in hormone-dependent cancers and epigenetics. *Endocrinology*. 160:1275-1288.
31. McDaniel, S.L. and **M.M. Harrison**. (2019). Optogenetic Inactivation of Transcription Factors in the Early Embryo of *Drosophila*. *Bio-protocol* 9(13): e3296.
32. Fernandez Garcia, M, Moore, C.D., Schulz, K.N., Alberto, O., Donague, G., **Harrison, M.M.**, Zhu, H., and K.S. Zaret. (2019) Structural features of transcription factors associating with nucleosome binding. *Mol Cell*. 75:921-932.
33. McDaniel, S.L., Hollatz, A.J., Branstad, A.M., Gaskill, M.M., Fox, C.A., and **M.M. Harrison**, (2020) Tissue-Specific DNA Replication Defects in *Drosophila melanogaster* caused by a Meier-Gorlin Syndrome Mutation in Orc4. *Genetics* 214: 355-367.
selected for a highlight in *Genetics*
34. Nevil, M., Gibson, T.J., Bartolutti, C., Iyengar, A., and **M.M. Harrison**. (2020) Establishment of chromatin accessibility by the conserved transcription factor Grainy head is developmentally regulated. *Development*. 147: doi: 10.1242/dev.185009
selected for a Research Highlight in *Development*
35. Jain, S.U., Rashoff, A.Q*., Krabbenhoft, S.D*., Hoelper, D., Do, T.J., Gibson, T.J., Lundgren, S.M., Bondra, E.R., Deshmukh, S., Harutyunyan, A.S., Juretic, N., Jabado, N., **Harrison, M.M.**, Lewis, P.W. (2020) H3 K27M and EZHIP impede H3K27-methylation spreading by inhibiting allosterically stimulated PRC2. *Mol Cell* 80: 726-735.
* contributed equally
36. Larson, E.D., Marsh, A.J., and **M.M. Harrison**. (2021) Pioneering the developmental frontier. *Mol Cell* 81: 1640-1650.
37. Gaskill, M.M.*, Gibson, T.J.*, Larson, E.D., and **M.M. Harrison**. (2021) GAF is essential for zygotic genome activation and chromatin accessibility in the early *Drosophila* embryo. *eLife* 10: e66668 doi.org/10.7554/eLife.66668
* contributed equally

38. Larson, E.D.*, Komori, H.*, Gibson, T.J., Ostgaard, C.M., Hamm, D.C., Schnell, J.M., Lee, C.Y., and **M.M. Harrison**. (2021) Cell-type-specific chromatin occupancy by the pioneer factor Zelda drives key developmental transitions in *Drosophila*. *Nat Comm*. 12: 7153.

* contributed equally

39. Gaskill, M. and **M.M. Harrison**. (2022) Tethering gene regulation to chromatin organization. *Science* 375:491-492.

40. Bellec, M., Dufourt, J., Hunt, G., Lenden-Hasse, H., Trullo, A., Makrini, A., Lamarque, M., Gaskill, M.M., Faure-Gautron, H., Mannervik, M, **Harrison, M.M.**, Andrau, J.C., Favard, C., Radulescu, O., and M. Lagha (2022) The control of transcriptional memory by stable mitotic bookmarking. *Nat Comm*. 13:1176.

41. Larson, E.D., Komori, H., Fitzpatrick, Z.A., Krabbenhoft, S.D., Lee, C.Y., and **M.M. Harrison**. (2022) Premature translation of the zygotic genome activator Zelda is not sufficient to precociously activate gene expression. *G3* 12: jkac159.

PROFESSIONAL MEMBERSHIPS

National and International Associations

2019 - present	Society for Developmental Biology
2014 - present	American Society for Biochemistry and Molecular Biology
2011 - present	Genetics Society of America

University Memberships and Training Affiliations

2021 - present	Affiliate faculty, UW-Madison Center for Genomic Science Innovation
2021 - present	Member, UW-Madison Stem Cell and Regenerative Medicine Center
2017 - present	Member, Carbone Cancer Center
2016 - present	Genome Sciences Training Program
2012 - present	Genetics Training Program
2012 - present	Institute for Clinical and Translational Research
2011 - present	Integrated Program in Biochemistry
2011 - present	Cellular and Molecular Biology Training Program
2011 - 2020	Molecular Biosciences Training Grant

INVITED ORAL PRESENTATIONS

2005	• 5 th Annual <i>C. elegans</i> Meeting
2009	• Gordon Research Conference: Developmental Biology
2011	• University of Wisconsin, Madison, WI, Department of Biomolecular Chemistry • University of Massachusetts, Amherst, MA, Department of Biology
2012	• University of Wisconsin, Madison, WI, Department of Cell and Regenerative Biology
2013	• University of Wisconsin, Madison, WI, RNA Maxi Group • American Society of Biochemistry and Molecular Biology Evolution of Core Processes in Gene Regulation Meeting
2014	• National Institute of Diabetes and Digestion and Kidney Disease, Bethesda, MD, Laboratory of Cell and Developmental Biology • Annual <i>Drosophila</i> Research Conference, Regulation of Gene Expression Session • Co-organizer: The Practice and Promise of CRISPR-Cas9-mediated Genome Engineering Workshop, Annual <i>Drosophila</i> Research Conference • Midwest Chromatin and Epigenetics Meeting
2015	• University of Michigan, Ann Arbor, MI, Department of Molecular, Cellular and Developmental Biology

- Co-organizer: Diverse Applications of CRISPR-Cas9 Genome Engineering Workshop, Annual Drosophila Research Conference
- Gordon Research Conference: Developmental Biology
- University of North Carolina, Chapel Hill, NC, Department of Biology
- 2016 • Massachusetts Institute of Technology, Cambridge, MA Genome Engineering Workshop
 - EMBO Conference: Molecular and Developmental Biology of Drosophila
 - Brown University, Dept. of Molecular Biology, Cell Biology, and Biochemistry
- 2017 • University of California, Irvine, CA, Department of Developmental and Cell Biology
 - Panel member: Annual Drosophila Research Conference, Early PI Symposium
 - Case Western Reserve University, Cleveland Arbor, OH, Department of Genetics
 - EMBO Workshop: Awakening the genome: the maternal to zygotic transition
 - Vallee Scholars Symposium
- 2018 • EMBO Conference: Molecular and Developmental Biology of Drosophila
 - Metazoan Systems Biology Workshop, Bordeaux, France
- 2019 • Washington University School of Medicine, St. Louis, MO, Department of Developmental Biology
 - University of Wisconsin, Madison, WI, Department of Genetics
 - Iowa State University, Ames, IA, Department of Biochemistry, Biophysics, and Molecular Biology
 - EMBO Workshop: Awakening the genome: the maternal to zygotic transition
 - Northwestern, Evanston IL, Department of Molecular Bioscience
- 2020 • Cincinnati Children's Hospital Research Foundation, Cincinnati OH, Molecular and Developmental Graduate Program
 - Crete Workshop on Molecular and Developmental Biology of Drosophila (virtual)
 - University of Pittsburgh, Pittsburgh PA, Department of Biological Sciences (virtual)
- 2021 • Children's Hospital of Philadelphia, Philadelphia, PA, Center for Computational and Genomic Medicine (virtual)
 - University at Albany, SUNY Albany, NY, Dept. of Biological Sciences (virtual)
 - University of Wisconsin, Madison, WI, Stem Cell and Regenerative Medicine Center
 - Vallee Scholar's Meeting Boston, MA
- 2022 • Plenary speaker, 63rd Annual Drosophila Research Conference San Diego, CA
 - University of Rochester, Dept of Biology
 - EMBO Conference: Molecular and Developmental Biology of Drosophila
 - EMBL Transcription and Chromatin Meeting Heidelberg, Germany
 - University of Colorado School of Medicine, Molecular Biology Seminar Series
- 2023 • University of Michigan, Center for Cell Plasticity and Organ Design
 - University of Alabama at Birmingham, Dept. of Biochemistry and Molecular Genetics
 - Johns Hopkins, Department of Biology

SERVICE

University

- | | |
|----------------|--|
| 2022 – present | Member, IPiB Admissions Committee |
| 2019 – present | Member, VCRGE Biological Sciences Research Committee |
| 2016 – present | Member, BMC Research Committee |
| 2015 – present | Participant, Women in Science and Engineering (WISE) Faculty Dinner |
| 2012 – present | Member, CMB Graduate Program Steering Committee |
| 2012 – present | Chair, Transcriptional Mechanisms Focus Group for Cellular and Molecular Biology graduate training program |
| 2017 – 2022 | Co-chair, IPiB Graduate Program Recruitment Committee |
| 2017 – 2022 | Member, IPiB Graduate Program Steering Committee |

2021 – 2022 Chair, BMC Assistant Professor Search Committee
 2021 Reviewer, Sophomore Research Fellowship
 2015 – 2020 Member, Faculty Advisory Committee Translational Genomics Facility
 2017 – 2019 Co-chair, IPIB Curriculum Committee
 2015 – 2017 Member, Cellular and Molecular Biology Exceptional Thesis Award Selection Committee
 2016 – 2017 Co-chair, IPIB Admissions Committee
 2016 Member, BMC Assistant Professor Search Committee
 2016 Reviewer, Hatch Grant
 2016 Judge, Poster contest, IPIB Retreat
 2016 Judge, Poster contest, WARF Discovery Challenge
 2015 Panelist, Cellular and Molecular Biology graduate training program Professional Development Event
 2014 – 2015 Member, IPIB Admissions Committee
 2014 Reviewer, Ruth Dickie Scholarship Competition sponsored by the Graduate Women in Science, Inc. (SDE-GWIS)
 2014 Panelist, Postdoc Academic Career Panel hosted by the Office of Postdoctoral Studies at SMPH
 2013 Helped to establish University of Wisconsin Madison Genome Editing Facility at the Biotech Center and the GeeWisc initiative
 2012 – 2013 Member, IPIB New Student Orientation Committee
 2013 Participant, Undergraduate Genetics Association Student-Faculty Event
 2012 Judge, Graduate Women in Science Seminar Competition

National and International

2022 – present Gene Expression Section Editor, FlyBook
 2022 – present Member, NIH MRAA study section (USA)
 2021 – present Co-organizer, ZGA virtual symposium
 2021 – present Member, Organizing Committee EMBO Workshop Molecular and Developmental Biology of Drosophila
 2021 Member, NIH MGB study section (USA)
 2019 – present Co-organizer EMBO Workshop Awakening of the genome: The maternal-to-zygotic transition 2021
 2011 – present Adhoc reviewer for Cell Reports, Development, Developmental Biology, Developmental Cell, Cell Reports, eLife, Epigenetics and Chromatin, Faculty Opinions, Genes and Development, Genetics, Genome Research, G3, Journal of Biological Chemistry, Journal of Genetics and Genomics, JoVE, Molecular Reproduction and Development, Molecular Cell, Nature, Nature Communications, Nature Cell Biology, Nature Structure Molecular Biology, Nucleic Acids Research, PLoS One, PLoS Genetics, Science, Seminars in Cell and Developmental Biology, Trends in Genetics
 2022 Ad hoc reviewer, Boehringer Ingelheim Fonds Foundation (Germany)
 2020 Session co-chair: The Allied Genetics Conference, Gene Regulation
 2020 Ad hoc member, NIH MGB study section (USA)
 2020 Ad hoc reviewer, National Science Centre (Poland)
 2020 Ad hoc reviewer, European Research Council (European Union)
 2020 Ad hoc reviewer, Boehringer Ingelheim Fonds Foundation (Germany)
 2019 Ad hoc reviewer, FWF Austrian Science Fund (Austria)
 2019 Ad hoc reviewer, BBSRC (UK)
 2019 Guest editor, PLoS Genetics
 2018 Ad hoc reviewer, Wellcome Trust Sir Henry Dale Fellowship (UK)
 2018 Ad hoc reviewer, NICHD Developmental Biology Subcommittee (USA)

2017	Session co-chair: Annual Drosophila Research Conference, Chromatin and Epigenetics Session
2016	Ad hoc reviewer, Marsden Fund (New Zealand)
2016	Ad hoc reviewer, Israel Science Foundation (Israel)
2016	Ad hoc reviewer, Gordon and Betty Moore Foundation (USA)
2016	Ad hoc reviewer, BBSRC (UK)
2016	Outside Reader, Nicole Dominado Thesis (Hime Lab, University of Melbourne)
2016	Outside Reader, Jennifer Urban Thesis (Larschan Lab, Brown University)
2015	Session co-chair: Annual Drosophila Research Conference, Regulation of Gene Expression Session
2015	Co-organizer: Diverse Applications of CRISPR-Cas9 Genome Engineering Workshop, Annual Drosophila Research Conference
2014	Co-organizer: The Practice and Promise of CRISPR-Cas9 mediated Genome Engineering Workshop, Annual Drosophila Research Conference
2013	Member, Faculty Round Table with Senator Tammy Baldwin to discuss Next Generation Research Act

RESEARCH GRANT SUPPORT

Current Funding

RSG DDC-130854	Harrison (PI)	7/1/2017-12/31/2022
American Cancer Society		
Mechanistic Insights into the Role of Grainy Head Proteins		
This grant supports research to understand how the deeply conserved transcription factor Grainy head regulates epithelial cell fate.		
Role: PI		
R01 NS111647	Harrison (PI)	4/01/2019-3/31/2024
National Institute of Neurological Disease and Stroke		
Shared mechanisms regulate transcription-factor activity to control cell fate in neural stem cells and the embryo		
This grant funds research into transcriptional and translational process that control cell fate decisions and reprogramming in both neural stem cells and in the early embryo.		
Role: PI		
R35 GM136298	Harrison (PI)	5/01/2020-4/30/2025
National Institute of General Medical Sciences		
Genomic reprogramming in the early embryo		
This grant funds research investigating how the early embryonic genome is reprogrammed following fertilization to allow for the transition from specified germ cells to the totipotent cells of the early embryo.		
Role: PI		
H I Romnes Faculty Fellowship	Harrison (PI)	7/01/2020-6/30/2025
Wisconsin Alumni Research Foundation		
This grant funds a broad array of ongoing research in the lab.		
Role: PI		
GEM CCSG Program Pilot Award	Harrison(co-PI)	4/01/2021-3/31/23
UW Comprehensive Cancer Center Support-Year 44RPPR		
Using Drosophila as a model system to investigate oncohistones		

This grant provides funding to support a collaboration between the Harrison lab and the lab of Dr. Peter Lewis to investigate oncohistone function using *Drosophila* as a model system.

Completed Funding

Basil O'Connor Starter Scholar Award #5-FY14-29 Harrison (PI) 2/1/2014-1/31/2016
March of Dimes

Mechanistic insights into the role of Grainyhead in embryonic development

Role: PI

New Investigator Award #2826 Harrison (PI) 3/1/2014-2/28/2016

Wisconsin Partnership Program

Mechanistic insights into the role of Grainyhead proteins in neural tube closure defects

Role: PI

R01 GM111694 Harrison (PI) 7/15/2015-6/30/2020

National Institute of General Medical Sciences

Mechanisms of genomic reprogramming and transcriptional activation in the embryo

This grant funds research into how an essential transcription factor, Zelda, reprograms the genome of the early embryo to allow for the rapid and efficient dedifferentiation of the fertilized egg to the totipotent cells that will eventually give rise to a new organism.

Role: PI

GEM CCSG Program Pilot Award Harrison(co-PI) 4/01/2019-3/31/20

UW Comprehensive Cancer Center Support-Year 44RPPR

Using *Drosophila* as a model system to investigate oncohistones

This grant provides funding to support a collaboration between the Harrison lab and the lab of Dr. Peter Lewis to investigate oncohistone function using *Drosophila* as a model system.

Vallee Scholar Award Harrison (PI) 9/1/2016-8/31/2022

The Vallee Foundation

Mechanisms driving rapid and efficient genome reprogramming in the early embryo

This grant funds our research into early embryonic development and the mechanisms by which the genome is reprogrammed to establish a pluripotent state.

Role: PI

TEACHING

2013 – 2014 **Biochemistry/Biomolecular Chemistry 710: Exploring Biochemical Functions of Macromolecules**

- 1 2 hour lecture covering chromatin dynamics during development
- ~20 graduate students

2012 – 2013 **Biomolecular Chemistry 314: Human Biochemistry**

- 15 1.25 hour lectures covering topics in human metabolism
- ~100 undergraduates

2016 – 2018 **Biomolecular Chemistry 314: Human Biochemistry**

- 7 1.5 hour lectures covering topics nucleic acid biochemistry
- ~40 undergraduates

2015- 2019 **Biomolecular Chemistry 901: IPiB Seminar**

- 20 1 hour student lectures on which I provide feedback
- ~40 graduate students

Tyler Masuda (2021 – 2022)
currently postbac at NIH
Megan Moskal (2021 – 2022)
Abby Ruffridge (2022)
Zoe Fitzpatrick (2021 – present)
Yannick Wyss (2022 – present)
Kerstin Hurd (2022 – present)

Summer Undergraduate Students through Biological Interactions Summer REU

Fernando Vera Urbina (2021)
University of Puerto Rico – Rio Piedras
Hope Hawthorne (2022)
University of Pennsylvania

Summer Visiting Undergraduate Researchers (as part of USTC Summer Program)

Dun Liu (2014)
currently graduate student at University of Arizona
Xiechao Zhan (2015)
currently graduate student at Tsinghua University
Yimao Huang (2016)
currently graduate student at University of Minnesota
Yinan Chen (2017)

Student Thesis Committees

	Student	Program	Lab	Terminal Degree
1	Kelly Manthei	IPiB	Keck	PhD
2	Jessica Feldman	IPiB	Denu	PhD
3	Clay Williams	IPiB	Coon	MS
4	Hillary St. John	IPiB	Pike	PhD
5	Matt Mead	IPiB	Hull	PhD
6	Mingwei Wang	IPiB	Hull	PhD
7	Antoninette Dummer	CMB	C. Fox	PhD
8	Yunsik Kang	Genetics	Bashirullah	PhD
9	Josue Baeza	IPiB	Denu	PhD
10	Ming-yeuh Wu	Genetics	J. Yu	PhD
11	Kimberly Haupt	IPiB	Kimble	PhD
12	Michael Kelliher	IPiB	Wildonger	PhD
13	Megan Dowdle	IPiB	Sheets	PhD
14	Dominik Hoelper	IPiB	Lewis	PhD
15	Anastasia Lindahl	IPiB	Denu	PhD
16	Evgenia Shishkova	IPiB	Coon	PhD
17	Blake Martin	Biophysics	Hardin	PhD
18	Erin Weisenhorn	IPiB	Coon	PhD
19	Tina Lynch	IPiB	Kimble	PhD
20	Aayushi Jain	IPiB	Lewis	in progress
21	Kelsey Perry	IPiB	C. Fox	Masters
22	Caleb Dillingham	CMP	Sridharan	in progress
23	Justin McKetney	IPiB	Coon	PhD
24	Emma Gougen	IPiB	Brow	in progress
25	Heungyun Moon	Plant Pathology	J. Yu	PhD
26	Rebecca Reese	CMB	Alarid	PhD
27	Josephine Mitchell	IPiB	Wildonger	PhD

28	Iryna Pustova	IPiB	Audhya	in progress
29	Zena Jensvold	CMB	Lewis	in progress
30	Kanika Jain	IPiB	Cox	PhD
31	Katherine Senn	IPiB	Hoskins	in progress
32	Trevor Chamberlain	Genetics	Pelegri	in progress
33	Christine Hustmyer	IPiB	Landick	in progress
34	Truman Do	MSTP/CMB	Lewis	in progress
35	Lily Miller	IPiB	Denu	in progress
36	Andrew Rashoff	Genetics	Lewis	in progress
37	Tyler Reich	MSTP/CMB	Lewis	in progress
38	Auguste Dutcher	Genetics	Gasch	in progress
39	Megan McKeon	Genetics	Hull	in progress
40	Marie Keith	CMB	Masson	in progress
41	Anna Frerichs	IPiB	Hull	in progress
42	Zhejing (Maggie) Xu	IPiB	Coyle	in progress
43	Alex Fister	CMB	Huttenlochcer	in progress
44	Expery Omollo	IPiB	Landick	in progress
45	Ahlan Ferdous	IPiB	Kimble	in progress
46	Zoe Tesone	CMB	Hardin	in progress
47	Grace Boyum	Genetics	Hess	in progress
48	Rodsy Modhurima	CMB	Bresnick	in progress
49	Siyuan Feng	Genetics	Pool	in progress

Rotation Students (37): Danielle Hamm (IPiB Fall 2012), Katharine Schulz (IPiB Fall 2012), Clay Williams (IPiB Fall 2012), Dean Sanders (Genetics Fall 2013), Markus Nevil (IPiB Fall 2013), Kasi Crocker (Genetics Fall 2013), Sophie Sdao (IPiB Fall 2015), Kyle Robinson (IPiB Fall 2015), Lauren Hiller (CMB Fall 2015) Rebecca Reese (CMB Fall 2015) Annette Dean (Genetics Fall 2015) Christine Isabella (IPiB Fall 2015) Jose Cruz-Arzon (IPiB Fall 2016), Marissa Gaskill (CMB Fall 2016), Emma Gougen (IPiB Fall 2016), Elizabeth Larson (IPiB Fall 2016), Elizabeth De Leon (IPiB Fall 2016), Kelsey Winchell (IPiB Fall 2016), Justin McKetney (IPiB Fall 2016) Tyler Gibson (CMB Fall 2017), Katherine Senn (IPiB Fall 2017), Audrey Marsh (Genetics Fall 2018), Megan McKeon (Genetics Fall 2018), Keer Jiang (CMB Fall 2018), Sam Krabbenhoft (MSTP Summer 2019), Alex Fister (CMB Fall 2020), Meghan Freund (Genetics Fall 2020), Fletcher Metz (Genetics Fall 2020), Jennifer Picw (MSTP Summer 2021), Annemarie Branks (CMB Fall 2021), Clarine Larsen (CMB Fall 2021), Jose Espina (CMB Fall 2021), Rodsy Modhurima (CMB Fall 2021), Grace Boyum (Genetics Fall 2021), Julia Flood (IPiB Fall 2022), Alyssa Koehler (Genetics Fall 2022), Beatrice Diep (CMB Fall 2022)