

Jeremy A. Hollis

Fred Hutchinson Cancer Center
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RESEARCH EXPERIENCE

Graduate Researcher, Fred Hutchinson Cancer Center

Seattle, WA

Advisors: Dr. Melody Campbell, Dr. Harmit Malik

2021 – Present

- Research topics: Protein structure, evolution, mutational landscape, cryoEM, phylogenomics, protein biochemistry, cell membrane composition, receptor-ligand interactions

Research Technician, Northwestern University

Evanston, IL

Advisor: Dr. Sadie Wignall

2016 – 2020

- Research topics: DNA organization, chromosome biology, cell division, meiosis, crossover interference, recombination pathway, chromosome positioning, egg and sperm development, molecular motors

Undergraduate Researcher, Denison University

Granville, OH

Advisor: Dr. Geoffrey Smith

2014 – 2016

- Research topics: Substrate selection, predator-prey relationships, chemical cues, development and mobility, pond and stream health, ecology and evolution

EDUCATION

University of Washington

Seattle, WA

Ph.D. Molecular and Cellular Biology (in progress)

2020-Present

Denison University

Granville, OH

BA Biology, BA Theatre Summa Cum Laude

2012-2016

PUBLICATIONS

1. **Jeremy A. Hollis**, Janet M. Young, Melody G. Campbell, Harmit S. Malik. Metazoan retention of a rapidly evolving centromeric histone chaperone. *In preparation*.
2. **Jeremy A. Hollis**, Matthew C. Chan, Harmit S. Malik, Melody G. Campbell. Molecular exaptation by the integrin α I domain. *Sci Adv*. 2025 Sept 10. doi: 10.1126/sciadv.adx9567.
3. Ian D. Wolff, **Jeremy A. Hollis**, Sadie M. Wignall (2021). Acentrosomal spindle assembly and stability in *C. elegans* oocytes requires a kinesin-12 non-motor microtubule interaction domain. *Mol Biol Cell*. 2022 May 20:mbcE22020056. doi: 10.1091/mbc.E22-05-0153.
4. **Jeremy A. Hollis**, Marissa L. Glover, Aleesa J. Schlientz, Cori K. Cahoon, Bruce Bowerman, Sadie M. Wignall, Diana E. Libuda (2020). Excess crossovers impede faithful meiotic chromosome segregation in *C. elegans*. *PLoS Genetics* 16:e1009001. doi: 10.1371/journal.pgen.1009001
5. Geoffrey R. Smith, Jessica E. Rettig, Mallory Smyk, Maggie Jones, Genevieve Eng-Surowiac, Davit Mirshavili, and **Jeremy Hollis** (2018). Consumption of the eggs, hatchlings, and tadpoles of Green Frogs (*Lithobates clamitans*) by native and non-native predators. *Amphibia-Reptilia*. 1-5. doi: 10.1163/15685381-20181071.
6. Jessica E. Rettig, Geoffrey R. Smith, Genevieve Eng-Surowiac, Davit Mirzashvili, Mallory Smyk, Maggie Jones and **Jeremy Hollis** (2018). Consumption of Invasive Western Mosquitofish Fry by Adult Conspicifics and Native Crayfish. *Northeastern Naturalist* 25(1): 117-122.

PRESENTATIONS

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| 2025 | Biology Departmental Seminar, Western Washington University
Invited Symposium Talk, Biophysical Society Meeting
Integrins and Related Molecules Gordon Research Seminar/Conference, Talk + Poster |
| 2024 | Fred Hutch Basic Sciences Division Retreat, Poster (1 st place poster prize) |

	Fred Hutch Computational Biology Retreat, Talk
	3D Electron Microscopy Gordon Research Seminar/Conference, Talk + Poster
2023	Fred Hutch Friday Night Talk
	Biological Physics, Structure, and Design 520 Seminar Series, Talk
	FASEB Signal Transduction in the Immune System, Talk + Poster
	University of Washington Immunology Department Retreat (People's choice poster award)
2022	Biological Physics, Structure, and Design 520 Seminar Series, Talk
	Seattle Electron Microscopy Meeting, Talk
	Signaling by Adhesion Receptors Gordon Research Seminar/Conference, Poster
2021	University of Washington BPSD and MBTG Retreat, Poster
2019	ASCB-EMBO annual meeting, Poster
2018	ASCB-EMBO annual meeting, Poster
2016	Butler University Undergraduate Research Conference, Poster

MENTORSHIP

2025-Present	Zeqi (Chelsea) Wang, Postbaccalaureate Scholar
2024	Anthony Kemp, Summer Undergraduate Researcher
2023	Summer High School Internship Program (SHIP) co-mentor (Fred Hutch)
2022	Kevin Alexander Estrada Alamo, Summer Undergraduate Researcher
2016-2020	Luke Liu, Junru Yan, Chloe Wong, Lab aides
2017	EePhie Tan, Visiting Scholar
2017	Hannah Horton, Rotation Graduate Student

TEACHING, OUTREACH, AND SERVICE

2025	Industry Speed Networking Organizing Committee (Fred Hutch)
	Grad student representative panelist, Campaign for Fred Hutch summit
	Science & A Movie panelist (Fred Hutch-Museum collaboration)
	SxAffold art-science collaboration lab host
	Science Education Partnership Volunteer (various)
2024	Fred Hutch Advisory Board graduate lunch panel lead
	Fred Hutch Philanthropy core facility "speed dating" EM representative
	MCB Recruitment tour guide and panel lead
2023	Fred Hutch Student/Postdoc Advisory Committee (SPAC) Co-chair (2023-Present)
	Cancer Biology 100 Lecturer (Fred Hutch)
	Area director of Genetics, Genomics, and Evolution topic for MCB graduate program (2022-2024)
	Regular speaker introductions for Friday Night Talks seminar series (Fred Hutch)
	Mock F/K award reviewer, study section chair (Fred Hutch)
	Summer High School Internship Teaching Assistant (Fred Hutch)
	Artlab volunteer (Fred Hutch)
2022	MCB graduate program Symposium Co-chair/organizer
	University of Washington NSF-GRFP panel mock reviewer
	Teaching Assistant, Evolution in Medicine (University of Washington)
2021	Fred Hutch SURP mock graduate application reviewer
2020	MCB Graduate Program 25 th anniversary alumni panel, poster session committees
2016	Teaching Assistant, Ecology and Evolution (Denison University)

FUNDING AND AWARDS

2025	Harold M. Weintraub Graduate Student Award
2023	Dr. Paul Neiman Outstanding Graduate Student Award
2022	Fred Hutch Translational Data Science Retreat Fast Pitch Awardee
	National Science Foundation Graduate Research Fellow (NSF-GRFP)
2021	NIH Molecular Biophysics T32 Training Grant Awardee
	NIH Genome Sciences T32 Training Grant Awardee (declined)
2016	Distinguished Senior Research, Denison University
2014	Anderson Summer Scholars Program, Denison University

MEMBERSHIPS

2018-Present American Society for Cell Biology
2016-Present Phi Beta Kappa

REFERENCES

Melody Campbell, Ph.D. (graduate mentor)
Assistant Professor, Basic Sciences Division
Affiliate Investigator, Herbold Computational Biology Program, Public Health Sciences Division
Fred Hutchinson Cancer Center
melody@fredhutch.org
206.667.6114

Harmit Malik, Ph.D. (graduate co-mentor)
HHMI Investigator
Professor and Associate Director, Basic Sciences Division
Fred Hutchinson Cancer Center
hsmalik@fredhutch.org
206.667.5204

Sue Biggins, Ph.D. (graduate thesis committee, rotation mentor)
HHMI Investigator
Professor and Director, Basic Sciences Division
Senior Vice President, Fred Hutchinson Cancer Center
sbiggins@fredhutch.org
206.667.1351

Sadie Wignall, Ph.D. (tech mentor)
Associate Professor, Department of Molecular Biosciences
Northwestern University
s-wignall@northwestern.edu
847.467.0386

Geoff Smith, Ph.D. (undergraduate research mentor)
Professor, Department of Biology
Denison University
smithg@denison.edu
740.587.6374