

Andrew R. Lynch

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Houston, TX, US

POSITIONS

2023–now	Postdoctoral Fellow — University of Texas MD Anderson Cancer Center <i>Genomic instability, tumor evolution, and phenotypic plasticity.</i>
2017–2023	Graduate Research Assistant — University of Wisconsin – Madison <i>Genomics, computation, and cell and molecular biology to improve measures of chromosomal instability in cancer.</i>
2013–2017	Adult Family Home Caregiver — Reality Unlimited <i>Provided guidance, care, and companionship to survivors of traumatic brain injury.</i>
2013–2016	Undergraduate Research Assistant — University of Wisconsin – Eau Claire <i>Used 2D NMR to probe the antigenic potential of MUC1 mimotopes.</i>
Jun–Aug 2016	NSF REU Mentor — University of Wisconsin – Eau Claire <i>Mentored REU participants in laboratory safety, basic biochemistry, solid phase peptide synthesis, and NMR analysis.</i>
Jun–Jul 2014	Research Intern — Ohio University + Pontificia Universidad Católica del Ecuador <i>Laboratory and field work characterizing domiciliary triatomine species carrying <i>Trypanosoma cruzi</i>.</i>

TRAINING

2017–2023	Ph.D. Cellular and Molecular Pathology — University of Wisconsin – Madison <i>Thesis: “Quantifying Chromosomal Instability: from first principles toward clinical value.”</i>
2012–2016	B.Sc. Biochemistry and Molecular Biology — University of Wisconsin – Eau Claire

GRANTS & AWARDS

2023–now	CPRIT TRIUMPH Postdoctoral Fellowship — MD Anderson Cancer Center — RP210028
2022	SRGC Travel Award — University of Wisconsin – Madison
2021–2022	NCI National Research Service Award / Fellowship — F31CA254247
2019–2021	NHGRI National Research Service Award / Traineeship — T32HG002760
2017–2018	NIGMS National Research Service Award / Traineeship — T32GM081061
2014	ORSP Faculty-Student Collaboration Award — University of Wisconsin – Eau Claire

SERVICE

2019–2023	Steering Committee — Cellular and Molecular Training Program, University of Wisconsin – Madison
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2019–2023	Trainee Network Leadership — University of Wisconsin Carbone Cancer Center
2018–2021	Recruitment Leader — Cellular and Molecular Training Program, University of Wisconsin – Madison

PUBLICATIONS

- Baker, T. M., Lai, S., **Lynch, A. R.**, Lesluyes, T., Yan, H., Ogilvie, H. A., Verfaillie, A., Dentre, S., Bowes, A. L., Pillay, N., Flanagan, A. M., Swanton, C., Spellman, P. T., Tarabichi, M., & Van Loo, P. (2024). The History of Chromosomal Instability in Genome-Doubled Tumors. *Cancer Discovery*, OF1-OF13.
- Lynch, A. R.**, Bradford, S., Zhou, A. S., Oxendine, K., Henderson, L., Horner, V. L., Weaver, B. A., & Burkard, M. E. (2024). A survey of chromosomal instability measures across mechanistic models. *PNAS*, 121(16), e2309621121.
- Lynch, A.**, Bradford, S., & Burkard, M. E. (2024). The reckoning of chromosomal instability: past, present, future. *Chromosome Research*, 32(1), 2.
- Zhou, A. S., Tucker, J. B., Scribano, C. M., **Lynch, A. R.**, Carlsen, C. L., Pop-Vicas, S. T., Pattaswamy, S. M., Burkard, M. E., & Weaver, B. A. (2023). Diverse microtubule-targeted anticancer agents kill cells by inducing chromosome missegregation on multipolar spindles. *PLOS Biology*, 21(10), e3002339.
- Lynch, A. R.**, Arp, N. L., Zhou, A. S., Weaver, B. A., & Burkard, M. E. (2022). Quantifying chromosomal instability from intratumoral karyotype diversity using agent-based modeling and Bayesian inference. *eLife*, 11, e69799.
- Yang, T., Her, C., **Lynch, A. R.**, White, R. J., Wang, M., & Westler, W. M. (2015). Short Proline-Substituted Muc1 Mucin Peptides Can Bind To Mouse Muc1 Monoclonal Antibody as Revealed by STD NMR. *Journal of Undergraduate Chemistry Research*, 14(1), 5-11.

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