

Curriculum Vitae: Kathy M. Gillen

Education:

Yale University	Pharmacology	Ph.D. (1989-1995)
S.U.N.Y. at Geneseo	Biochemistry	B. Sc. (1985-1989)

Research experience:

May 2019- present	Molecular mechanisms of regeneration in <i>Lumbriculus variegatus</i> .
Oct. 1995- June 1997	Postdoctoral Fellow with Dr. Henrik Dohlman at Yale University, "Molecular determinants of G protein plasma membrane targeting."
1991 - Sept. 1995	Ph.D. thesis with Dr. L. Roman at Yale University, "Role of cellular retinoic acid binding protein I in retinoic acid induced differentiation of F9 cells."
summer 1991	Received funding to participate in laboratory course 333H, Molecular approaches to ion channels, Hopkins Marine Station, Monterey, CA.
summer 1988	Student research fellow funded by Research Foundation of the State of New York under the direction of Dr. D.K. Geiger.
1988-1989	SUNY Geneseo senior research under the direction of Dr. R. O'Donnell, "Effects of tumor necrosis factor on L1 tumor cell line growth."

Teaching experience:

1987 - 1989	Teaching assistant for Chemistry 113 and 114 laboratory, SUNY Geneseo.
1992- 1993	Lecturer in Physician's Associates Surgical Residents Physiology course, Yale University.
1993- 1996	Supervised and mentored undergraduate and graduate students while in the laboratories of Drs. Roman and Dohlman, Yale University.
1999-2002, '05, '06	HHMI Summer Math/Science Pre-college Program for first generation college students.
2000-2005	Visiting Assistant Professor, Department of Biology, Kenyon College.
2005- Present	Assistant Professor of Biology, Kenyon College

Classes taught at Kenyon:

Biology 115	Energy in Living Systems
Biology 116	Information in Living Systems
Biology 109	First semester Introductory Biology lab
Biology 110	Second semester Introductory Biology lab
Biology 238	Microbiology
Biology 263	Molecular Biology and Genomics
Biology 266	Cell Biology
Biology 315	Cell Signaling
Biology 385	Research in Biology
Biology 393	Individual Study in Biology
Biology 475	Senior Seminar

Honors and Awards:

New York State Regents Scholarship, 1985-1989

Jackson - Ulmer Biochemistry award for outstanding biochemistry major, SUNY Geneseo, 1989. Graduated summa cum laude and Phi Beta Kappa

American Institute of Chemists student award, 1989.

National Science Foundation Graduate Fellowship 1990-1993

Kenyon College Faculty Research Grant (\$3,000), awarded Spring 2020

Publications:

Text book chapters:

Two appendix chapters in and glossary for J. L. Slonczewski and John W. Foster, January 2008, ***Microbiology: An Evolving Science***. W. W. Norton & Co., New York.

Papers:

Fischer, F.* , Best, R.* , LaRocca-Stravalle, Z.* , Kauffman, J.* , **Gillen, K.**, 2022. Validation of three reference genes for quantitative RT-PCR analyses in regenerating *Lumbriculus variegatus*. Gene Reports 26, 101538.

<https://doi.org/10.1016/j.genrep.2022.101538>

Martinez Acosta, V.G., Arellano-Carbajal, F., **Gillen, K.**, Tweeten, K.A., Zattara, E.E., 2021. It Cuts Both Ways: An Annelid Model System for the Study of Regeneration in the Laboratory and in the Classroom. Frontiers in Cell and Developmental Biology 9, 3231. <https://doi.org/10.3389/fcell.2021.780422>

Gillen, C.M.; Somple, M.*; Heilman, N.R.*; Watson, N.*; Blair, C.R.*; Stulberg, M.*; Thombre, R.*; **Gillen, K.**; Itagaki, H. 2006. The cation chloride cotransporter, masBSC, is widely distributed in *Manduca sexta*. Journal of Insect Physiology 52: 661-668.

Gillen KM; Pausch M; Dohlman HG. 1998. Nterminal domain of Gpa1 (G protein alpha) subunit is sufficient for plasma membrane targeting in yeast *Saccharomyces cerevisiae*. Journal of Cell Science vol. 111 (Pt 21) : 3235-44. PMID: 9763517 <https://doi.org/10.1242/jcs.111.21.3235>

Dohlman HG; Song J; Apanovitch DM; DiBello PR; **Gillen KM**. 1998 Regulation of G protein signalling in yeast. Seminars in Cell and Developmental Biology vol. 9, no. 2: 13541.

* Asterisk indicates Kenyon student co-author

Essays:

Gillen, K. Interrupted-Again. Science vol. 369, Issue 6505, pp. 874 (14 Aug 2020)

DOI: 10.1126/science.369.6505.874

Invited Talks:

Production of Reactive Oxygen Species Post-Amputation in the Annelid *L. variegatus* at the "Role of Metabolism and ROS in Healing" session of the 2023 Tissue Repair and Regeneration Gordon Research Conference. (<https://www.grc.org/tissue-repair-and-regeneration-conference/2023/>)

Abstracts:

Fischer, F*; LaRocca-Stravalle, Z*; **Gillen, K**, Regeneration in *Lumbriculus variegatus* entails differential expression of telomerase reverse transcriptase. Society for Integrative and Comparative Biology Annual Meeting. Abstract P13-7 (Virtual, 2021)

LaRocca-Stravalle, Z.* Kauffman J.*, **Gillen K**. Labial A and Post-1 Hox genes expression in *Lumbriculus variegatus*. Society for Integrative and Comparative Biology Meeting. Abstract P1-5 (Austin, Texas 2020).

Gillen KM, Fischer Fielding*, Valin Liana*. Preliminary survey of homeodomains in *Lumbriculus variegatus*. The Physiologist Vol. 62 No.1, abstract # 28.43 (2019)

Gillen, C.M., Heilman*, N.R., Watson*, N., Somple*, M., **Gillen, K.M**. Tissue distribution of the cation-chloride cotransporter, masBSC, in *Manduca sexta*. Society of Integrative and Comparative Biology, Toronto, Canada, January 2003.

K.M. Gillen and L.M. Roman. Role of cellular retinoic acid binding protein I in retinoic acid induced differentiation of F9 cells. American Society for Cell Biology, 1993.

R.W. O'Donnell, M. Albright, **K.M. Jonason** and K. Thompson. Tumor enhanced growth with TNFa and IFNg in the L1 tumor model. American Association for Cancer Research, 1989.

* Asterisk indicates Kenyon student co-author

Professional Society memberships:

American Association for the Advancement of Science 1990- Present

Society for Comparative and Integrative Biology 2019- Present

Professional Service:

Society for Integrative and Comparative Biology Annual Meeting 2021, Chair of Development and Evolution Poster Session