



Daria Hekmat-Scafe

Advanced Lecturer
Biology

Bio

ACADEMIC APPOINTMENTS

- Advanced Lecturer, Biology

Teaching

COURSES

2025-26

- Introduction to Laboratory Research in Cell and Molecular Biology: BIO 45 (Aut, Win)
- Introduction to Research in Ecology and Evolutionary Biology: BIO 47, EARTHSYS 47 (Spr)

2024-25

- Introduction to Laboratory Research in Cell and Molecular Biology: BIO 45 (Aut, Win)
- Introduction to Research in Ecology and Evolutionary Biology: BIO 47, EARTHSYS 47 (Spr)

2023-24

- Introduction to Laboratory Research in Cell and Molecular Biology: BIO 45 (Aut, Win)
- Introduction to Research in Ecology and Evolutionary Biology: BIO 47, EARTHSYS 47 (Spr)

2022-23

- Introduction to Laboratory Research in Cell and Molecular Biology: BIO 45 (Aut, Win)
- Introduction to Research in Ecology and Evolutionary Biology: BIO 47 (Spr)

Publications

PUBLICATIONS

- **Wide-ranging consequences of priority effects governed by an overarching factor.** *eLife*
Chappell, C. R., Dhami, M. K., Bitter, M. C., Czech, L., Herrera Paredes, S., Barrie, F. B., Calderon, Y., Eritano, K., Golden, L., Hekmat-Scafe, D., Hsu, V., Kieschnick, C., Malladi, et al
2022; 11
- **Using Yeast to Determine the Functional Consequences of Mutations in the Human p53 Tumor Suppressor Gene: An Introductory Course-Based Undergraduate Research Experience in Molecular and Cell Biology** *BIOCHEMISTRY AND MOLECULAR BIOLOGY EDUCATION*
Hekmat-Scafe, D. S., Brownell, S. E., Seawell, P. C., Malladi, S., Imam, J. F., Singla, V., Bradon, N., Cyert, M. S., Stearns, T.
2017; 45 (2): 161-178
- **A High-Enrollment Course-Based Undergraduate Research Experience Improves Student Conceptions of Scientific Thinking and Ability to Interpret Data** *CBE-LIFE SCIENCES EDUCATION*

- Brownell, S. E., Hekmat-Scafe, D. S., Singla, V., Seawell, P. C., Imam, J. F., Eddy, S. L., Stearns, T., Cyert, M. S.
2015; 14 (2)
- **Seizure Sensitivity Is Ameliorated by Targeted Expression of K⁺-Cl⁻ Cotransporter Function in the Mushroom Body of the Drosophila Brain** *GENETICS*
Hekmat-Scafe, D. S., Mercado, A., Fajilan, A. A., Lee, A. W., Hsu, R., Mount, D. B., Tanouye, M. A.
2010; 184 (1): 171-183
 - **Mutations in the K⁺/Cl⁻ cotransporter gene *kazachoc* (*kcc*) increase seizure susceptibility in Drosophila** *JOURNAL OF NEUROSCIENCE*
Hekmat-Scafe, D. S., Lundy, M. Y., Ranga, R., Tanouye, M. A.
2006; 26 (35): 8943-8954
 - **Seizure suppression by gain-of-function *escargot* mutations** *GENETICS*
Hekmat-Scafe, D. S., Dang, K. N., Tanouye, M. A.
2005; 169 (3): 1477-1493
 - **Genome-wide analysis of the odorant-binding protein gene family in Drosophila melanogaster** *GENOME RESEARCH*
Hekmat-Scafe, D. S., Scafe, C. R., McKinney, A. J., Tanouye, M. A.
2002; 12 (9): 1357-1369
 - **Expression mosaic of odorant-binding proteins in Drosophila olfactory organs** *MICROSCOPY RESEARCH AND TECHNIQUE*
Shanbhag, S. R., Hekmat-Scafe, D., Kim, M. S., Park, S. K., Carlson, J. R., Pikielny, C., Smith, D. P., Steinbrecht, R. A.
2001; 55 (5): 297-306
 - **Control of Drosophila perineurial glial growth by interacting neurotransmitter-mediated signaling pathways** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Yager, J., Richards, S., Hekmat-Scafe, D. S., Hurd, D. D., Sundaresan, V., Caprette, D. R., Saxton, W. M., Carlson, J. R., Stern, M.
2001; 98 (18): 10445-10450
 - **Olfactory coding in a compound nose - Coexpression of odorant-binding proteins in Drosophila** *International Symposium on Olfaction and Taste XII*
Hekmat-Scafe, D. S., Steinbrecht, R. A., Carlson, J. R.
NEW YORK ACAD SCIENCES.1998: 311-315
 - **Coexpression of two odorant-binding protein homologs in Drosophila: Implications for olfactory coding** *JOURNAL OF NEUROSCIENCE*
HEKMATSCAFE, D. S., Steinbrecht, R. A., Carlson, J. R.
1997; 17 (5): 1616-1624
 - **Genetic and molecular studies of olfaction in Drosophila** *Symposium on Olfaction in Mosquito-Host Interactions*
HEKMATSCAFE, D. S., Carlson, J. R.
JOHN WILEY & SONS LTD.1996: 285-301
 - **PUTATIVE DROSOPHILA PHEROMONE-BINDING PROTEINS EXPRESSED IN A SUBREGION OF THE OLFACTORY SYSTEM** *JOURNAL OF BIOLOGICAL CHEMISTRY*
McKenna, M. P., HEKMATSCAFE, D. S., Gaines, P., Carlson, J. R.
1994; 269 (23): 16340-16347
 - **MUTATIONS IN A CONSERVED REGION OF RNA POLYMERASE-II INFLUENCE THE ACCURACY OF MESSENGER-RNA START SITE SELECTION** *MOLECULAR AND CELLULAR BIOLOGY*
HEKMATPANAH, D. S., Young, R. A.
1991; 11 (11): 5781-5791