

Stanford



Evan G. Cameron

Instructor, Ophthalmology

Bio

ACADEMIC APPOINTMENTS

- Instructor, Ophthalmology

HONORS AND AWARDS

- ARVO Hot Topics: Featured Poster, ARVO (2018)
- Ruth L. Kirschstein National Research Service Award Individual Postdoctoral Fellowship (F32), NEI (2015-2018)
- UMBC Graduate School Dissertation Fellowship, University of Maryland (2013)
- FASEB: Biology and Chemistry of Vision Travel Award, FASEB (2011)
- Ruth L. Kirschstein Institutional NRS Award (T32), NIH (2009-2011)
- Chemistry Biology Interface Graduate Student Training Award, University of Maryland (2007-2014)

PROFESSIONAL EDUCATION

- Postdoctoral Fellow, Stanford University School of Medicine (2019)
- Postdoctoral Scholar, University of California San Diego (2015)
- PhD, University of Maryland Baltimore County (2014)
- MS, University of Maryland Baltimore County (2007)
- BS, Towson University, Summa Cum Laude (2006)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My longstanding research interest is to understand the cellular, molecular, and transcriptional mechanisms that underlie pathological vision loss. Currently, my work focuses on the contributions of reactive astrocytes in retinal ganglion cell degeneration in glaucoma with the goal of developing novel “gliotherapeutics” to promote neuroprotection, regeneration, and functional recovery.

Publications

PUBLICATIONS

- **The C-Terminus and Third Cytoplasmic Loop Cooperatively Activate Mouse Melanopsin Phototransduction** *BIOPHYSICAL JOURNAL* Valdez-Lopez, J. C., Petr, S. T., Donohue, M. P., Bailey, R. J., Gebreeziabher, M., Cameron, E. G., Wolf, J. B., Szalai, V. A., Robinson, P. R. 2020; 119 (2): 389–401
- **Optic Nerve Crush in Mice to Study Retinal Ganglion Cell Survival and Regeneration.** *Bio-protocol*

- Cameron, E. G., Xia, X., Galvao, J., Ashouri, M., Kapiloff, M. S., Goldberg, J. L.
2020; 10 (6)
- **MEF2 transcription factors differentially contribute to retinal ganglion cell loss after optic nerve injury.** *PloS one*
Xia, X. n., Yu, C. Y., Bian, M. n., Sun, C. B., Tanasa, B. n., Chang, K. C., Bruffett, D. M., Thakur, H. n., Shah, S. H., Knasel, C. n., Cameron, E. G., Kapiloff, M. S., Goldberg, et al
2020; 15 (12): e0242884
 - **Physiologic maturation is both extrinsically and intrinsically regulated in progenitor-derived neurons.** *Scientific reports*
Venugopalan, P. n., Cameron, E. G., Zhang, X. n., Nahmou, M. n., Muller, K. J., Goldberg, J. L.
2020; 10 (1): 2337
 - **Dynamic Transcriptional Profiling of Reactive Muller Glia Following Retinal Injury**
Ashouri, M., Madaan, A., Nahmou, M., Wang, S., Goldberg, J. L., Cameron, E. G.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
 - **Opposing Effects of Growth and Differentiation Factors in Cell-Fate Specification.** *Current biology : CB*
Chang, K. C., Sun, C. n., Cameron, E. G., Madaan, A. n., Wu, S. n., Xia, X. n., Zhang, X. n., Tenerelli, K. n., Nahmou, M. n., Knasel, C. M., Russano, K. R., Hertz, J. n., Goldberg, et al
2019
 - **Regulation of Neuronal Survival and Axon Growth by a Perinuclear cAMP Compartment.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
Boczek, T. n., Cameron, E. G., Yu, W. n., Xia, X. n., Shah, S. H., Castillo Chabeco, B. n., Galvao, J. n., Nahmou, M. n., Li, J. n., Thakur, H. n., Goldberg, J. L., Kapiloff, M. S.
2019
 - **Intracellular compartmentation of cAMP promotes neuroprotection and regeneration of CNS neurons.** *Neural regeneration research*
Cameron, E. G., Kapiloff, M. S.
2017; 12 (2): 201-2
 - **NEUROREGENERATION. Promoting CNS repair.** *Science*
Cameron, E. G., Goldberg, J. L.
2016; 353 (6294): 30-31
 - **Muscle A-Kinase Anchoring Protein-a is an Injury-Specific Signaling Scaffold Required for Neurotrophic- and Cyclic Adenosine Monophosphate-Mediated Survival.** *EBioMedicine*
Wang, Y., Cameron, E. G., Li, J., Stiles, T. L., Kritzer, M. D., Lodhavia, R., Hertz, J., Nguyen, T., Kapiloff, M. S., Goldberg, J. L.
2015; 2 (12): 1880-1887
 - **beta-Arrestin-Dependent Deactivation of Mouse Melanopsin** *PLOS ONE*
Cameron, E. G., Robinson, P. R.
2014; 9 (11)
 - **Characterization of visual pigments, oil droplets, lens and cornea in the whooping crane *Grus americana*** *JOURNAL OF EXPERIMENTAL BIOLOGY*
Porter, M. L., Kingston, A. C., McCreedy, R., Cameron, E. G., Hofmann, C. M., Suarez, L., Olsen, G. H., Cronin, T. W., Robinson, P. R.
2014; 217 (21): 3883-3890
 - **Identification of Critical Phosphorylation Sites on the Carboxy Tail of Melanopsin** *BIOCHEMISTRY*
Blasic, J. R., Matos-Cruz, V., Ujla, D., Cameron, E. G., Hattar, S., Halpern, M. E., Robinson, P. R.
2014; 53 (16): 2644-2649
 - **Shedding new light on opsin evolution** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Porter, M. L., Blasic, J. R., Bok, M. J., Cameron, E. G., Pringle, T., Cronin, T. W., Robinson, P. R.
2012; 279 (1726): 3-14