

Rayna M. Harris

Postdoctoral Scholar, University of California, Davis

Education

- 2002 - 2006 B.S.. Biochemistry, The University of Texas at Austin
- 2012 - 2017 Ph.D.. Cell and Molecular Biology, The University of Texas at Austin

Experience

- 2021 - 2022 Postdoctoral Scholar. University of California, Davis
- 2021 - 2022 Parking Supervisor. Alpine Meadows Ski Resort
- 2020 - 2021 Nursery Supervisor. Rock & Rose Nursery & Landscaping
- 2018 - 2019 Postdoctoral Scholar. University of California, Davis
- 2010 - 2012 Laboratory Manager. The University of Texas at Austin
- 2007 - 2010 Teaching Specialist. The University of Texas at Austin

Honors and Awards

- 2019 AAAS Community Engagement Fellowship.
- 2019 rstudio::conf 2019 Diversity Scholarship.
- 2017 Outstanding Graduate Student Academic Employee Award.
- 2016, 17 University Graduate Continuing Fellowship.
- 2016 Society for Integrative and Comparative Biology Grant in Aid of Research.
- 2014, 15, 16 Academic Enrichment Fund Award.

R Packages

- 2022 *datos*: Traduce al Español Varios Conjuntos de Datos de Práctica. 1716 downloads last month

Publications

- 2022 **Prolactin and prolactin receptor expression in the HPG axis and crop during parental care in both sexes of a biparental bird (*Columba livia*)**, VS Farrar, RM Harris, SH Austin, BMN Ultreras, AM Booth, F Angelier, et al., General and comparative endocrinology.
- 2021 **Uncovering the Sex-specific Endocrine Responses to Reproduction and Parental Care**, SH Austin, JS Krause, R Viernes, VS Farrar, AM Booth, RM Harris, et al., Frontiers in endocrinology.
- 2021 **Making Common Fund data more findable: Catalyzing a Data Ecosystem**, AL Charbonneau, A Brady, CT Brown, SA Sansone, A Ma'ayan, et al., bioRxiv.

- 2020 **Ten quick tips for teaching with participatory live coding**, *A Nederbragt, RM Harris, AP Hill, G Wilson*, PLoS Computational Biology.
- 2020 **Stress-mediated convergence of splicing landscapes in male and female Rock Doves**, *AS Lang, SH Austin, RM Harris, RM Calisi, MD MacManes*, BMC genomics.
- 2020 **Transcriptome analysis of hippocampal subfields identifies gene expression profiles associated with long-term active place avoidance memory**, *RM Harris, HY Kao, JM Alarcón, AA Fenton, HA Hofmann*, BioRxiv.
- 2020 **Isolating the role of corticosterone in the hypothalamic-pituitary-gonadal genomic stress response**, *RMC Suzanne Het al.ustin, Rayna Met al.arris, April Met al.ooth, Andrew Set al.ang et al.*, bioRxiv.
- 2019 **FAIRshake: Toolkit to Evaluate the FAIRness of Research Digital Resources**, *DJB Clarke, L Wang, A Jones, ML Wojciechowicz, D Torre, KM Jagodnik, et al.*, Cell systems.
- 2019 **Molecular profiling of single neurons of known identity in two ganglia from the crab *Cancer borealis***, *AJ Northcutt, DR Kick, AG Otopalik, BM Goetz, RM Harris, JM Santin, et al.*, Proceedings of the National Academy of Sciences.
- 2019 **FAIRshake: toolkit to evaluate the findability, accessibility, interoperability, and reusability of research digital resources**, *DJB Clarke, L Wang, A Jones, ML Wojciechowicz, D Torre, KM Jagodnik, et al.*, BioRxiv.
- 2019 **Hippocampal transcriptomic responses to enzyme-mediated cellular dissociation**, *RM Harris, HY Kao, JM Alarcon, HA Hofmann, A Fenton*, Hippocampus.
- 2019 **Molecular Profiling to Infer Neuronal Cell Identity: Lessons from small ganglia of the Crab *Cancer borealis***, *AJ Northcutt, DR Kick, AG Otopalik, BM Goetz, RM Harris, JM Santin, et al.*, bioRxiv.
- 2018 **Ten simple rules for collaborative lesson development**, *GA Devenyi, R Emonet, RM Harris, KL Hertweck, D Irving, I Milligan, et al.*, PLOS Computational Biology.
- 2018 **Gene expression signatures of mating system evolution**, *SCP Renn, HE Machado, N Duftner, AK Sessa, RM Harris, HA Hofmann*, Genome.
- 2017 **The melanocortin system regulates body pigmentation and social behaviour in a colour polymorphic cichlid fish**, *PD Dijkstra, SM Maguire, RM Harris, AA Rodriguez, RS DeAngelis, et al.*, Proceedings of the Royal Society B: Biological Sciences.
- 2017 **Single-Neuron Gene Expression Analysis Using the Maxwell 16 LEV System in the Neural Systems and Behavior Course**, *RM Harris, AG Otopalik, CJ Smith, D Bucher, J Golowasch, HA Hofmann*, bioRxiv.

- 2016 **Inhibition of Aromatase Induces Partial Sex Change in a Cichlid Fish: Distinct Functions for Sex Steroids in Brains and Gonads**, *C Göppert, RM Harris, A Theis, A Boila, S Hohl, A Rüegg, HA Hofmann, et al.*, Sexual Development.
- 2016 **Brain Evolution, Development, and Plasticity**, *RM Harris, LA O'Connell, HA Hofmann*, The Wiley Handbook of Evolutionary Neuroscience.
- 2015 **Social odors conveying dominance and reproductive information induce rapid physiological and neuromolecular changes in a cichlid fish**, *JM Simões, EN Barata, RM Harris, LA O'Connell, HA Hofmann, et al.*, BMC genomics.
- 2015 **Integrating resource defence theory with a neural nonapeptide pathway to explain territory-based mating systems**, *RG Oldfield, RM Harris, HA Hofmann*, Frontiers in Zoology.
- 2015 **Seeing is believing: Dynamic evolution of gene families**, *RM Harris, HA Hofmann*, Proceedings of the National Academy of Sciences.
- 2015 **Copy number variation in the melanocortin 4 receptor gene and alternative reproductive tactics the swordtail *Xiphophorus multilineatus***, *CC Smith, RM Harris, KP Lampert, M Schartl, HA Hofmann, MJ Ryan*, Environmental Biology of Fishes.
- 2014 **The genomic substrate for adaptive radiation in African cichlid fish**, *D Brawand, CE Wagner, YI Li, M Malinsky, I Keller, S Fan, O Simakov, et al.*, Nature.
- 2014 **Predator exposure alters stress physiology in guppies across timescales**, *EK Fischer, RM Harris, HA Hofmann, KL Hoke*, Hormones and Behavior.
- 2014 **Neurogenomics of Behavioral Plasticity**, *RM Harris, HA Hofmann*, Advances in Experimental Medicine and Biology.
- 2014 **Complex Structural and Regulatory Evolution of the Pro-Opiomelanocortin Gene Family**, *RM Harris, PD Dijkstra, HA Hofmann*, General and Comparative Endocrinology.
- 2014 **Neural Gene Expression Profiles and Androgen Levels Underlie Alternative Reproductive Tactics in the Ocellated Wrasse, *Symphodus ocellatus***, *KA Stiver, RM Harris, JP Townsend, HA Hofmann, SH Alonzo*, Ethology.
- 2013 **Arginine Vasotocin and Androgen Pathways are Associated with Mating System Variation in North American Cichlid Fishes**, *RG Oldfield, RM Harris, DA Hendrickson, HA Hofmann*, Hormones and Behavior.
- 2013 **Sex Steroid Hormones Modulate Responses to Social Challenge and Opportunity in Males of the Monogamous Convict Cichlid, *Amatitlana nigrofasciata***, *AK Sessa, RM Harris, HA Hofmann*, General and Comparative Endocrinology.