

April Peterson

alpeterson7@wisc.edu – petersoapes@gmail.com

Education

University of Wisconsin - Madison

PhD Candidate - Laboratory of Genetics Training Program - 2013-Present

Lawrence University, Appleton, WI *Bachelor of Arts - Molecular and Cellular Biology - 2006-2010*

Minor in Linguistics

- Senior Project: In silico search of novel motifs in upstream sequence of differentially expressed genes in *C. elegans*
 - Officer of LU Biology club, 2007-2009.
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Research

University of Wisconsin - Madison, *Graduate Research Assistant - 2013-Present*

Project Discription Skills

Publications

Peterson, A. L., Miller, N. D., & Payseur, B. A. (2019). Conservation of the genome-wide recombination rate in white-footed mice. *Heredity*, 1-16.

Møller, E. K., Parveen, K., Voet, T., **Peterson, A.**, Van Loo, P., Mathiesen, R.R., Fjelldal R., Grundstad J., Borgen E., Baumbusch L.O., Naume B., Børresen-Dale, A., White, K.P., Nord, S., Vessela N. Kristensen, V.N., (2013). *Frontiers in oncology*. Next-generation sequencing of disseminated tumor cells. DOI:10.3389/fonc.2013.00320.

Hekman, K.E., Yu, G.Y., Brown, C.D., Zhu, H., Du, X., Gervin, K., Undlien, D.E., **Peterson, A.**, Stevanin, G., Clark, H.B. and Pulst, S., *Human molecular genetics*. (2012). A conserved eEF2 coding variant in SCA26 leads to loss of translational fidelity and increased susceptibility to proteostatic insult. doi:10.1093/hmg/dds392.

Parveen, K.; Moller, E; Demeulemeester, J; Nord, S; Wedge, D; **Peterson, A**; Mathiesen, R; Fjelldal, R; Zamani Esteki, Masoud; Grundstad, J. (2016). Tracing the origin of disseminated tumor cells in breast cancer using single-cell sequencing, Abstract book, *Genome Biology*. 23-23,2016, doi:10.1186/s13059-016-1109-7 (add equal contribution to first 3)?

Stricker, T. P., Brown, C. D., Bandlamudi, C., McNerney, M., Kittler, R., Montoya, V., **Peterson, A.**, Grossman, R., White, K., P., (2017). Robust stratification of breast cancer subtypes using differential patterns of transcript isoform expression, *PLoS Genetics*. doi:10.1371/journal.pgen.1006589. ,13,3,e1006589,2017,Public Library of Science

Teaching

TA - GEN 466. • TA GEN466 Spring 2015.

Undergraduate Mentor (3 students total)

Oral Presentations

1. Conservation of recombination rates in a wild population of white-footed mice, 4/18/19. Evolution Seminar Series. Madison, WI. [Link to Slides](#)
2. “Characterizing meiotic recombination in a wild population of *Peromyscus leucopus*”. Midwest Popgen meeting. 8-25-18. St. Paul, MN. [Link to Slides](#)

Peterson, A. L. Evolution of Recombination. Rebecca J. Holz series in Research Data Management. July 2017. Portland, OR. [Link to Slides](#)

Poster Presentations

1. **Peterson, A. L.** and B. Payseur. The Evolution of Sexual Dimorphism of Recombination Rate in House Mice, GSA PEQG. July 2016. Orlando FL. [Link to Poster](#)
 2. **Peterson, A. L.**, B. Payseur. The Evolution of Sexual Dimorphism of Recombination Rates in House Mice”, Midwest Popgen conference. 2015. Ann Arbor, MI. [[Link to Poster](#)] ()
 3. **Peterson, A. L.** and DeStatsio, E. “Identifying transcription factor binding motif of daf-19 in *C.elegans*”. Peterson, AL and Senior Research Project Presentations. Lawrence University Biology Department. 2008
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Related Experience

University of Chicago, 2010 to 2013 Title: Research Technician, IGSC

Projects: Exome library construction, characterization of transcription factor expression in breast cancer cell lines using a microwestern approach, characterization of a tumor suppressor gene in AML cell lines. • Skills: Sequencing library construction (TruSeq and custom protocols), PCR, plasmid construction, BAC construction by recombineering, data analysis with Perl and R • Other Activities: IGSC journal club, Audited Intro Stats for Genetic Analysis

R&D Systems, Summer to Fall 2009 Title: Summer Intern

Project: Optimizing production of recombinant apoptotic proteins in mammalian cells, comparison of effects of apoptosis genes in HEK 293 and CHO cells. • Skills: Cloning and designing vectors, transient transfection using polyethylenimine, mammalian cell culture maintenance, western blots, flow cytometry sample preparation.

King’s College Hospital, Oct. to Dec. 2008 Title: Student Intern Project: Organizing data for clinical trials in biochemistry department • Assisting in ELISA assays and sample preparation for steroid analysis using LC-MS

Awards

1. GSA travel award
 2. GSA grad student poster award, Third place
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