

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Fall Quarter 2024 – CRN 39234

Friday Seminar at 12:10-1 p.m.
GBSF Auditorium, Room 1005

“Development and function of the zebrafish
ovary- Lessons learned from scRNA-seq”

Research Bio

Professor Draper received his Ph.D. from the University of Washington, working with professors James Priess and Harold Weintraub (Fred Hutchinson Cancer Center; FHCRC) to study the maternal regulation of cell fate specification using *C. elegans*. As a postdoc at the University of Oregon, he studied the regulation of posterior mesoderm formation in the lab of Professor Charles Kimmel. He then completed a second postdoc in the lab of Professor Cecilia Moens (FHCRC, Seattle) where he began his investigations into the genetic regulation of germline stem cells in the zebrafish ovary. His lab in the Department of Molecular and Cellular Biology at UC Davis continues to study germline stem cells, but also genes necessary for early gonad development, oocyte-granulosa cell interactions, and the regulation of sex differentiation and maintenance, using molecular genetics, cellular and single-cell genomics methods.

Publications

Yulong Liu, Michelle E Kossack, Matthew E McFaul, Lana N Christensen, Stefan Siebert, Sydney R Wyatt, Caramai N Kamei, Samuel Horst, Nayeli Arroyo, Iain A Drummond, Celina E Juliano, **Bruce W Draper** (2022) “Single-cell transcriptome reveals insights into the development and function of the zebrafish ovary”. *eLife* 11:e76014.

Leerberg, D.M., Sano, K., **Draper, B.W.** (2017) “Fibroblast growth factor signaling is required for early somatic gonad development in zebrafish”. *PLoS Genetics*. 13:e1006993.

Oct.
25



Bruce W. Draper, Ph.D.
Professor
Molecular and Cellular Biology
College of Biological Sciences
University of California, Davis

Oct. 25, 2024
12:10 – 1 p.m.
GBSF Auditorium
Room 1005

In-person presentation

Medical Microbiology
and Immunology
School of Medicine

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We hope to see you there!