

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Winter Quarter 2025 – CRN 30957

**Friday Seminar at 12:10-1 p.m.
1102 Gourley Clinical Teaching Center**

**“The inflammatory microenvironment within
the mammary gland as an active
participant in growth and lactation”**

Research Bio

Professor Russ Hovey received a Bachelor's of Agricultural Science, with a major in Animal Science and with First Class Honors, from University of Queensland, Australia in 1992. He then moved to New Zealand where he undertook his Ph.D. at Massey University while studying at the Ruakura Research Center in Hamilton, working on the role of the mammary fat pad during development of the mammary gland. In 1997 he moved to the NIH in Bethesda, MD to work in the lab of Barbara Vonderhaar in the Molecular Endocrinology Section of the National Cancer Institute. There he worked on the regulation of mammary gland development and breast cancer by prolactin and steroid hormones.

He then joined the Department of Animal Science at the University of Vermont where he held a joint appointment in the Department of Pathology and the Vermont Cancer Center. In 2007 he relocated to the Department of Animal Science at UC Davis and the UC Davis Cancer Center, where he teaches the Introductory Animal Science course to over 400 students each year, and a course in Lactation Physiology to over 100 students annually. His research is focused on the hormonal and dietary regulation of mammary gland growth, lactation and breast cancer.

Publications

Berryhill GE, Glaviczki JM, Trott JF, Aimo L, Kraft J, Cardiff RD, Paul CT, Petrie WK, Lock AL, **Hovey RC**. “Diet-induced metabolic change induces estrogen-independent allometric mammary growth”. *Proc Natl Acad Sci U S A*. 2012 Oct 2;109(40):16294-9. doi: 10.1073/pnas.1210527109. Epub 2012 Sep 17. PMID: 22988119; PMCID: PMC3479619.

Sadovnikova A, Garcia SC, Trott JF, Mathews AT, Britton MT, Durbin-Johnson BP, **Hovey RC**. “Transcriptomic changes underlying glucocorticoid-induced suppression of milk production by dairy cows”. *Front Genet*. 2022 Dec 6;13:1072853. doi: 10.3389/fgene.2022.1072853. PMID: 36561310; PMCID: PMC9763454.

Jan.
10



Russell C. Hovey, Ph.D.
Professor and Lead Faculty
Advisor Animal Science
University of California, Davis

**January 10, 2025
12:10 – 1 p.m.**

**1102 Gourley
Clinical Teaching
Center**

In-person presentation

**Medical Microbiology and
Immunology
School of Medicine**

Seminar Contact:
Karryn Doyle
kddoyle@ucdavis.edu