UC DAVIS HEALTH | SCHOOL OF MEDICINE

Medical Microbiology and Immunology
MMI 291 Seminar Series
Emerging Challenges in Microbiology and Immunology

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Spring Quarter 2024 – CRN 48450

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

"Sex and the regulation of meiotic recombination in C. elegans"

Research Bio

JoAnne Engebrecht, Ph.D., was trained as a microbiologist and began studying meiosis when she was a postdoctoral fellow with Shirleen Roeder, Ph.D., at Yale University. As an independent investigator at Stony Brook University and since 2003 at UC Davis she has used both the yeast, S. cerevisiae, and the nematode, C. elegans, to investigate fundamental aspects of meiotic chromosome behavior. Currently her lab is focused on elucidating molecular mechanisms of meiotic recombination and checkpoint signaling and how this is modulated by sex.

Publications

Li Q, Kaur A, Okada K, McKenney RJ, **Engebrecht J**. "Differential requirement for BRCA1-BARD1 E3 ubiquitin ligase activity in DNA damage repair and meiosis in the Caenorhabditis elegans germ line". *PLoS Genet*. 2023 Jan 30;19(1):e1010457. doi: 10.1371/journal.pgen.1010457. PMID: 36716349; PMCID: PMC9910797.

Gartner A, **Engebrecht J**. "DNA repair, recombination, and damage signaling". *Genetics.* 2022 Feb 4;220(2):iyab178. doi: 10.1093/genetics/iyab178. PMID: 35137093; PMCID: PMC9097270.

May
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JoAnne Engebrecht, Ph.D.
Professor
Molecular and Cellular Biology
College of Biological Sciences
University of California, Davis

May 3, 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!