UC DAVIS HEALTH | SCHOOL OF MEDICINE

Medical Microbiology and Immunology
MMI 291 Seminar Series
Emerging Challenges in Microbiology and Immunology
Current Theme: Collaborations
Fall Quarter 2023 – CRN 41342

Microbiology Graduate Group Distinguished Seminar Speaker

E. Peter Greenberg

Friday Seminar – 12:10-1 p.m.

Genome and Biomedical Science Facility
Auditorium, Room1005

"Sociomicrobiolgy: quorum sensing control of cooperation"

Research

Professor Greenberg is widely considered the father of the field of microbial quorum sensing. He has published over two hundred scientific articles on quorum sensing. He has an active research program that emphasizes studies of quorum sensing in *Pseudomonas aeruginosa*. This bacterial pathogen has become a model for studies of fundamental aspects of bacterial communication. He has studied quorum sensing since the late 1970s and in fact the term quorum sensing and response originates in a 1994 *Journal of Bacteriology* article on which he was senior author.

Publications

Smalley, N. E., A. L. Schaefer, K. L. Asfahl, C. Perez, **E. P. Greenberg** and A. A. Dandekar. 2022. " Evolution of the quorum sensing regulon in cooperating populations of *Pseudomonas aeruginosa"*. *mBio* **13**: e0016122.

Wellington Miranda S, Q Cong, A. L. Schaefer, E. K. MacLeod, A. Zimenko, D. Baker and **E. P. Greenberg**. 2021. *eLife* 10: e69169.

Suo et al. 2023. "A Mesorhizobium japonicum quorum sensing circuit that involves three links genes and an unusual acyl-homoserine lactone signal". *mBio*. 14: e0101023.

December 8

E. Peter Greenberg, Ph.D.
Professor
Department of Microbiology
School of Medicine
University of Washington

December 8, 2023
12:10 – 1 p.m.
GBSF 1005

Medical Microbiology and Immunology
School of Medicine

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We hope to see you there!