

MMI 291 Seminar Series

Current Theme: Interdisciplinary Research
Fall Quarter 2026 – CRN 37712

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

“Bioelectrical fields in wound healing &
– a mechanism that could be hijacked by
bacteria?”

Research Bio

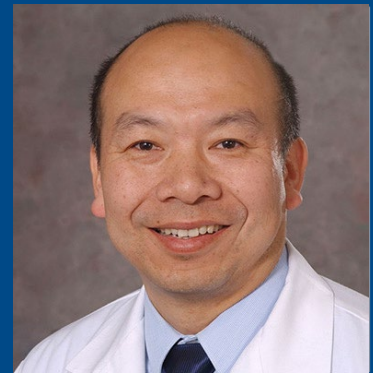
Professor Min Zhao received medical training in China. He received postdoctoral training at University College London. He moved to University of Aberdeen, Scotland, where he established his laboratory and became a professor in regenerative medicine and an honorary consultant of ophthalmology in 2004. He moved to University of California Davis in 2007 and is now a professor in Dermatology and ophthalmology at UC Davis School of Medicine. His lab demonstrated that electric fields at wounds provide a powerful signal that guide cells and tissues to migrate to heal wounds. His group identified genes and molecules that mediate electric field-guided cell migration. His research aims to use electric fields as a signal to heal wounds and to regenerate tissues. Some recent experiments from his lab suggested that bioelectrical signals could affect migration of immune cells, and pathogen host interactions.

Publications

Zhao, M., Song, B., Pu, J. et al. “[Electrical signals control wound healing through phosphatidylinositol-3-OH kinase-γ and PTEN](#)”. *Nature*. 2006 July

Zhao, M., Sun, Y., Ferreira, F., Reid, B. et al. “[Gut epithelial electrical cues drive differential localization of enterobacteria](#)”. *Nature Microbiology*. 2024 Aug

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UC Davis Medical Center
UC Davis Comprehensive Cancer Center
University of California, Davis

**Oct. 9, 2026
12:10 – 1 p.m.
GBSF Auditorium
1005**

In person presentation

Medical Microbiology and
Immunology
School of Medicine

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We hope to see you there!