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
Fall Quarter 2025 – CRN 38614

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

"Dissecting host-pathogen interactions with deep genetic scanning"

Research Bio
Meru Sadhu is an Earl Stadtman Investigator and head of the Systems Biology and Genome Engineering section at the National Human Genome Research Institute. He obtained his bachelor's degree from Caltech, and then did his doctoral studies at UC Berkeley with Jasper Rine. For his postdoc, Sadhu joined Leonid Kruglyak's lab at UCLA, where he developed CRISPR approaches to questions in quantitative genetics. In 2018 he came to the NIH and formed the Systems Biology and Genome Engineering Section, where he is using high-throughput methods to address important questions at the intersection of host-pathogen interactions and genetics.

Publications

Michael James Chambers, Sophia B Scobell, **Meru J Sadhu**. "Systematic genetic characterization of the human PKR kinase domain highlights its functional malleability to escape a poxvirus substrate mimic". Chambers *et al*. *eLife* 2024;13:RP99575.

Annette B. Iturraldea, Cory A. Wellera, Simone M. Giovanettia, and **Meru J. Sadhu**. "Comprehensive deletion scan of anti-CRISPR AcrIIA4 reveals essential and dispensable domains for Cas9 inhibition". *PNAS* 2024 Vol. 121 No. 48 e2413743121.

Nov.
14

Meru J. Sadhu, Ph.D.
Stadtman Investigator
Head of Systems Biology and Genome Engineering Section
National Human Genome Research Institute
National Institutes of Health

Nov. 14, 2025
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!