Pathology and Microbiology

Current Federal Awards

Kai Fu, M.D., Ph.D.  DoD/USAMRAA.  Targeting PLK-1 for treating MYC-driven lymphomas.

Kenneth Bayles, Ph.D.  NIH/NIAID P01 Al083211.  *S. aureus* biofilm lifestyle.

Kenneth Bayles, Ph.D.  NIH/NIAID R01 Al25589.  The molecular control of bacterial programmed cell death.

Paul Fey, Ph.D., NIH/NIAID P01 Al083211.  Catabolism of Peptides and Amino Acids by *S. aureus*.

Javeed Iqbal, Ph.D.  NIH/NCI R41 CA221466 Development of a novel clinical diagnostic assay for peripheral T-cell lymphoma (PTCL)

Tammy Kielian, Ph.D., NIH/NIAID P01 Al083211.  Contribution of Extracellular Enzymes to *Staphylococcus aureus* Biofilm Development.

Tammy Kielian, Ph.D., NIH/NIAID P01 Al083211.  Innate Immune Response to *S. aureus* Biofilm.

Vinai C. Thomas, Ph.D., NIH/NIAID P01 Al083211.  Metabolomics Core.


Vinai C. Thomas, Ph.D., NIH/NIAID R01 Al125588.  The Role of Arginine Catabolic Pathways in Modulating Staphylococcal Fitness.

Kurt Fisher, M.D., Ph.D.  NIH/NCI K08 CA222887.  The role of PGC1beta and erralpha as novel targets for therapy in colorectal cancer.

Scott Campbell, MBA, Ph.D.  DHHS/NIH/National Human Genome Research Institute U01-HG009455-03S1.  Alzheimer’s Disease biorepository and knowledge discovery toolset. Administrative Supplement.

Gus Wang, Ph.D.  NIH/NIAID R01 Al105147.  Database designed novel anti-MRSA peptides.

Steven Carson, Ph.D. NIH/NIAID.  R03 Al130174.  Receptor-Mediated Steps in Enterovirus Infection Involve Allostery.
Javeed Iqbal, Ph.D. (project leader-Mayo Clinic parent) NIH/NIAID P01 CA229100. Molecular Pathogenesis of two newly defined major subgroups of PTCL.

Tammy Kielian, Ph.D. NIH/NINDS. R01 NS107369. Immune Mechanisms that Promote *S. Aureus* Persistence During Craniotomy-Associated Biofilm Infection.

Caroline Ng, Ph.D. NIH/NIAID. R21 AI137900. Leveraging Insights into the Plasmodium Falciparum Ubiquitin-Proteasome System and the Unfolded Protein Response to Combat Artemisinin Resistance through Synergistic Combinations.


Rey Carabeo, Ph.D., Scot Ouellette, Ph.D., Elizabeth (Lisa) Rucks, Ph.D. NIH/NIAID. R01 AI132406. Regulatory Role of Tandem Tryptophan Codons in Chlamydia Persistence.

Scot Ouellette, Ph.D. NSF/Collaborative Research. 1817583. Mechanism of Polarized budding in *Chlamydia*.

St. Patrick Reid, Ph.D. NIH/NIAID. R21 AI140026. Modeling Chikungunya Virus Infection in a Vascularized Bone Model.

Keer Sun, Ph.D. NIH/NIAID. R21 AI128527. SOCS1 regulations of Influenza infection.

Rakesh Singh, Ph.D. NIH/NCI. R01 CA228524. Targeting CXCR2 Axis in Pancreatic Cancer.

Keer Sun, Ph.D. NIH/NIAID. R01 HL118408. Oxidative burst in Influenza and MRSA co-infection.

Learn more about the above-mentioned awarded grants by visiting our department’s [Pathways page](#).