

Potential SURF projects for 2026

Project Title:	Dental injury with maxillofacial miniplate hardware in facial trauma patients
Investigator:	Kevin C. Lee, kcl2136@uw.edu
Study Question:	What is the incidence and what are the risk factors for mandibular and maxillary dental injury with miniplate fixation among patients with maxillofacial fracture repair
Background Requirements	Data collection, data organization, scientific writing
Project Title:	A lifecycle assessment of digital and traditional workflows for a single unit zirconia crown
Investigator:	Ivy Lin, ivylin2@uw.edu
Study Question:	Does the digital dental workflow have less environmental impact than the traditional workflow?
Background Requirements	N/A
Project Title:	OMV formation in <i>P. gingivalis</i>
Investigator:	Sumita Jain, sumita@uw.edu
Study Question:	Does a particular lipid A structure (found in outer membranes of Gram-negative bacteria) impede OMV formation? We hypothesize that C4'-mono-phosphoryl lipid A (MPLA) inhibits vesiculation in <i>P. gingivalis</i> . We will assess different wild-type strains and known hypo-vesiculating mutants for C4'-MPLA content.
Background Requirements	Interest in Microbiology and Host-pathogen interactions