

FALL 2017

The Red Queen's Dilemma: *Immune evasion by pathogens and tumors*

BIOL 551 Graduate Seminar I (CRN 22778)

BIOL 552 Graduate Seminar II (CRN 22780) Instructor: Ritwij Kulkarni

Immune defenses are exquisitely designed to fight threats such as infectious organisms (pathogens) and cancer cells. In response both pathogens and cancer cells have developed mechanisms to evade host's immune defenses. Understanding immune evasive mechanisms is critical to develop effective therapeutics to fight infections and cure cancer.

"How do scientists study immune evasion?" "How are these discoveries used to develop new therapies?"

In this course, we will meet weekly for student-led classroom discussions on the assigned primary literature with particular attention to modern techniques in molecular immunology and bench-to-bedside translation of discoveries.

