

**CHEMISTRY Departmental Seminar**

Spring 2019  
CHEM 285/191 Schedule  
Tuesdays at 4:30-5:45PM  
Room Duncan Hall 250

March 5<sup>th</sup>, 2019

**Dr. Brandon Rosen**  
Arcus Biosciences

***Reversal of Adenosine-Mediated Immunosuppression: Small  
Molecule Inhibitors of CD73***

CD73 is an enzyme that catalyzes the dephosphorylation of adenosine monophosphate (AMP) to adenosine. Given the upregulation of CD73 in the tumor microenvironment and the role of adenosine in immune suppression, inhibition of this enzyme increases immune cell infiltration into mouse tumors and results in decreased tumor growth, making it a promising immuno-oncology target. The inhibition of CD73 using small molecules will be discussed.