

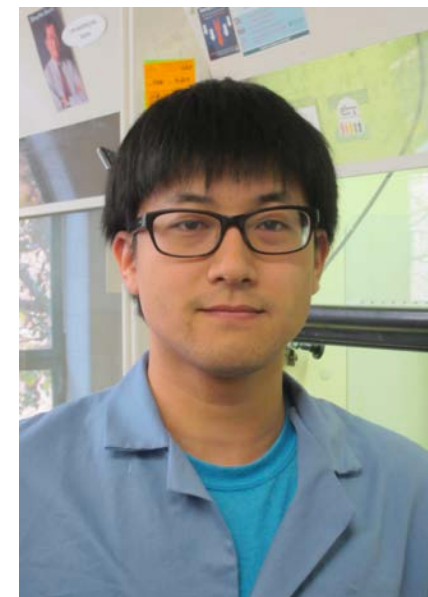
## Mr. Richiro Ushimaru

Graduate Student at The University of Texas at Austin (Hung-wen Liu Group)

## Assembly of the Thioheptose Core of Albomycins

Dec 23 (Mon) 2019, 14:00–15:00

Noyori Materials Science Laboratory 2F Chemistry Gallery



**Abstract:** Sulfur is an essential element for life and is found in all living systems. Yet, how the sulfur is incorporated into many sulfur-containing secondary metabolites remains poorly understood. Albomycin  $\delta_2$  is an unusual naturally occurring nucleoside that possesses a sulfur-containing furanose, which is essential for its potent antibacterial activity against clinically important pathogens. Recently, we have identified a radical S-adenosyl L-methionine enzyme that catalyzes construction of the thiofuranose ring. The result will be presented in the seminar.

