

CHEMISTRY Departmental Seminar

Spring 2022
CHEM 285/191 Schedule
Tuesday at 4:30-5:45PM
Duncan Hall 250

March 8th, 2022

Dr. Marlin Halim
California State University East Bay

Exploring the Roles of Aptamers in Imaging

In the past two decades, aptamers have gained popularity in biotechnology and medicine. Their ability to selectively recognize a wide variety of analytes (ranging in size and complexity from ions to whole cells) and low immunogenicity are just two of the many characteristics that make their use as therapeutic/diagnostic and imaging agents highly attractive. Our work focuses on the design and development of sensors, and to this end, we have investigated the applicability of aptamers in two areas related to magnetic resonance imaging (MRI) i.e., as an indicator for gadolinium(III) ions and as a receptor for MRI contrast agents that can reduce the toxicity of the latter.