Understanding the CHEMISTRY of Life

Synopsis

Adenosine triphosphate is a very well-known but poorly understood molecule in our cells. In this class, we will take a close look at this important molecule and figure out the chemical principles underlying its properties and functions in cells.

Speaker

Prof Chng Shu Sin

Prof Chng Shu Sin obtained his B.Sc. (Hons) in Chemistry from NUS in 2003 and his Ph.D. from Harvard University in 2010. During his graduate studies, he was a teaching fellow at the college and was awarded the Harvard University Certificate for Distinction in Teaching for four terms. After a one-year postdoctoral stint at Harvard Medical School, he joined NUS’ Department of Chemistry and now teaches two courses: Biomolecules and Chemical Biology. He has been awarded multiple faculty- and university-level teaching excellence awards. He runs a research group that focuses on understanding outer membrane biogenesis and lipid trafficking in bacteria, and aims to develop new strategies to overcome antibiotic resistance.