

Workshop on Mathematical Modeling and Simulation of Electrolytes with Application to Molecular Physiology

Time: Jan. 10 (Tue.) – Jan. 11 (Wed.) 2017
Venue: Rm 202, NCTS (Astro-Math Bldg., NTU)

Description:

Electrolytes are solutions of acids, bases or salts containing free ions that make the substance electrically conductive. Ions flow in and out of cell membrane and play important roles on ion channels and transporters which are important in molecular physiology. Understanding these complicated dynamics not only give formidable challenges but also motivations for new mathematical theories and techniques. Experimental results play a crucial role to learn the physical laws which are useful for the development of mathematical models. The main goal of the workshop is to discuss the biophysical models of BD, MD and PDE simulations and the relation of mathematical results and biological significance. The workshop will provide an opportunity for researchers in related areas to share and discuss their current research ideas.

Speakers:

Shu-Wei Chang	<i>National Taiwan University</i>
Ren-Shiang Chen	<i>Tunghai University</i>
Simone Furini	<i>University of Siena</i>
Tzyy-Leng Horng	<i>Feng Chia University</i>
Nien-Jen Hu	<i>National Chung Hsing University</i>
Chun-Hsiang Tan	<i>Kaohsiung Medical University Hospital</i>
Chun-Ming Yang	<i>National Taiwan University</i>
Chia-Ning Yang	<i>National University of Kaohsiung</i>

