



February 15, 2015 3:00 PM, ERB Room 116

The First Annual *LASSB* Mini-symposium on Systems and Synthetic Biology

3:00 - 3:05 Opening and welcoming remarks
Kourosh Salehi-Ashtiani, NYUAD, UAE

Panel I - Systems Biology

3:05 - 3:20 *Genome-wide analysis of abiotic stress responses in the moss Physcomitrella patens by RNAseq*
Basel Khraiwesh, NYUAD, UAE

3:20 - 3:35 *Microalgal metabolic network model refinement through high throughput functional metabolic profiling*
Bushra Dohai, NYUAD, UAE

3:35 - 3:50 *Novel algal isolates from the UAE highlight adaptive plasticity in common green algae*
David Nelson, NYUAD, UAE

3:50 - 4:05 *Phylogenomic signature fluidity across the metabolic network of Chlamydomonas reinhardtii*
Amphun, Chaiboonchoe, NYUAD, UAE

Panel II - Synthetic Biology

4:05 - 4:20 *Intracellular spectral recomposition of light for improving photosynthetic efficiency in the marine diatom Phaeodactylum tricournutum*
Weiqi Fu, NYUAD, UAE

4:20 - 4:35 *Structural modeling of a fast and unusual hammerhead ribozyme*
Joseph Koussa, NYUAD, UAE

4:35 - 4:50 **Break**

Panel III - Keynote talk

4:50 - 5:35 *Systems approaches to gene expression regulation and beyond*
Varodom Charoensawan, Mahidol University, Thailand, and MRC Laboratory of Molecular Biology, UK