

Workshops

Rapid Response to Global Crisis

Leader: Karen McDonald, UC Davis, kamcdonald@ucdavis.edu

This workshop will address innovative technologies, processes and platforms for diagnostics, target identification, and rapid biomanufacturing to respond to global health crises such as pandemic influenza, emerging (and re-emerging) infectious diseases and other biological threats. In particular, the approaches taken, challenges faced, and lessons learned in developing and producing therapeutics and vaccines against Ebola will be discussed, along with critical biochemical engineering and technological innovations needed to be able to respond to future outbreaks.

Emerging Trends in Biomanufacturing

Leader: Ekta Mahajan, Genentech, mahajan.ekta@gene.com

Kumar Dhanasekharan, Kumar.Dhanasekharan@cookpharmica.com

The emerging model of manufacturing is multiple-site manufacturing across multiple countries. The workshop will focus on the challenges and trends in multi-site manufacturing for biologics that can have different process scales, different process technologies such as batch vs. continuous, single-use vs Stainless Steel, hybrid design etc. Topics include discussion of the emerging process technologies for multi-site manufacturing, supply chain management across sites, and site-to-site product comparability.

Biochemical Engineering Education

Leader: Claire Komives, San Jose State University, claire.komives@sjsu.edu

This workshop will address the current state of biochemical engineering education, innovative programs to transform biochemical engineering education, and ask the questions regarding if education meets the needs of industry, for what careers are graduates being trained (and is there an industry to support that), and how do we align academic research, needs associated with graduate training, and a changing global economy.