

BIOENGINEERING & BIOMEDICAL ENGINEERING RESEARCH SEMINAR



FROM SYSTEMS BIOTECHNOLOGY TO SYNTHETIC BIOTECHNOLOGY IN BIOMANUFACTURING

Wei-Shou Hu - University of Minnesota

Mammalian cell based biomanufacturing produces many life-saving therapeutics, from proteins, DNAs, viruses to cells. In the past decade, these biologic products are increasing their global reach and its research and production activities are expanding relentlessly in many regions of the world. The success has certainly been propelled by the discovery of many more medicines, and brought about by the great advances in analytical science and manufacturing technology. A major challenge in this global growth is the increasing demand of product quality and consistency. The challenge also demands a resurgence of innovations in process engineering that will lead to robust culture performance and predictive product quality. This presentation will emphasize the value of a systems engineering approach in meeting the new challenges, and highlight the opportunities in advancing physiological modeling, and synthetic biology based cell engineering.

January 20, 2017
MD 267
1:00PM



McGill

Department of
Bioengineering

