Lecture Series: Engineering Pichia pastoris for the low-cost production of therapeutic proteins and vaccines

**Event Type:** IBBR Seminar Series  
**Contact Person:** Nicholas Callahan  
**Event Info**

**Date:** Nov 16 2020 - 11:00am to 12:00pm  
**Location:** Auditorium

**Speaker/Presenter:** Karen Polizzi  
**Speaker Affiliation:** Imperial College London  
**Event Description:**  
Engineering *Pichia pastoris* for the low-cost production of therapeutic proteins and vaccines

Abstract: *Pichia pastoris* is a methylotrophic yeast that has been used in the production of recombinant proteins for more than 30 years. As a eukaryotic microbial host, *P. pastoris* is the best of both worlds. It has ability to perform complex post-translational modifications, but grows rapidly to high cell densities using low-cost substrates. In this talk, I will discuss the efforts of our group to improve the production therapeutic proteins and recombinant vaccines in *P. pastoris* using a combination of synthetic biology tools, product engineering, and cell line modifications. Using these strategies, *P. pastoris* can become an alternative to mammalian production systems for the manufacture of proteins for the developing world and beyond.

**Setup**

**IT Setup:** Video Conferencing (WebEx, Skype, etc)