

E-workshop (via WebEx) on Health Technology Assessment 12-14 May 2020

Objectives:

1. Provide introduction to the economics of vaccines and principles of Health Technology Assessment (HTA) including:
 - Understanding the framework used by donors/foundations in accessing the costs and benefits of vaccine products
2. Understanding the potential of the expression platform *Pichia pastoris* for vaccine manufacturing including:
 - Understanding the different expression strategies for *Pichia pastoris*
 - Learning where to find information on protocols for expression
3. Understanding the potential of using baculovirus as a manufacturing platform in developing countries including:
 - Understanding the methodology and protocols of baculovirus-based manufacturing
 - VLP production from baculovirus as well as “baculovaccines”

Target audience:

Product developers, project managers, strategists, R&D, scientific advisors, financial or economic analysts, and individuals in decision making positions are most likely to benefit from this training workshop.

To ensure participants are familiar with the economic and financial concepts discussed at this workshop we recommend all participants completing the ‘Production Economics’ E-learning course available on the DCVMN website before the workshop begin. (cf. <https://moodle.dcvmn.net/>)

The workshop will be in English and there will be no translation service as our E-workshop is an activity to foster international integration and cooperation.

DAY 1, Tuesday 12 May 2020		
Production economics and viability/sustainability framework		
Time	Topic	Speaker
08:45-09:00 (CET)	Registration & Introduction	DCVMN
09:00-09:45 (CET)	Framework for sustainable manufacturing (Based on Luter et al 2017 ¹)	C. Mehta & E. Eyermann, CHAI
09:45-10:00 (CET)	Q&A	C. Mehta & E. Eyermann, CHAI
10:00-10:15 (CET)	Break	
10:15-11:00 (CET)	The economics of vaccine production costing: theory and practice (based on BMGF Handbook ² & Plotkin et al. 2017 ³)	B. Hayman, DCVMN
11:00-11:15 (CET)	Q&A	B. Hayman, DCVMN
11:15- (CET)	Adjourn	All participants

¹ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5593149/>

² https://docs.gatesfoundation.org/Documents/Production_Economics_Vaccines_2016.pdf

³ https://mailing.dfinet.ch/service/home/~/?auth=co&loc=en_US&id=376440&part=3

DAY 2, Wednesday 13 May 2020		
Expression platform Pichia pastoris for vaccine manufacturing		
Time	Topic	Speaker
08:45-09:00 (CET)	Registration & Recap	DCVMN
09:00-09:45 (CET)	Introduction to the Pichia system	R. Aw, Imperial College
09:45-10:00 (CET)	Q&A	R. Aw, Imperial College
10:00-10:15 (CET)	Break	
10:15-11:00 (CET)	Expression and scale up	R. Aw, Imperial College
11:00-11:15 (CET)	Q&A	R. Aw, Imperial College
11:15- (CET)	Adjourn	All participants

DAY 3, Thursday 14 May 2020		
Baculovaccines manufacturing platform		
Time	Topic	Speaker
08:45-09:00 (CET)	Registration & Recap	DCVMN
09:00-09:45 (CET)	Introduction into Baculovirus expression system	F. Rabi, University of Bristol
09:45-10:00 (CET)	Q&A	F. Rabi, University of Bristol
10:00-10:15 (CET)	Break	
10:15-11:00 (CET)	VLP and Baculovaccine production	P. Meysami, University of Bristol
11:00-11:15 (CET)	Q&A	P. Meysami, University of Bristol
11:15- (CET)	Adjourn	All participants