



GCRF Networks Vaccinology Course

The [Global Challenges Research Fund \(GCRF\) Vaccine Networks \(IVVN, BactiVac, HIC-Vac, IMPRINT and VALIDATE\)](#) are running a [veterinary and human vaccinology course](#) in association with the [United Nations Food and Agriculture Organisation \(UN FAO\)](#), through the [European Commission for the Control of Foot and Mouth Disease \(EuFMD\)](#), from [Monday 3rd to Friday 7th December 2018 in Bangkok, Thailand](#).

The course is aimed at post-graduate students and early career researchers and will address aspects of human and animal vaccinology, the vaccine development process, biomanufacturing, regulatory and ethical issues. The course will be delivered by an exceptional line up of world renowned academic and industrial speakers, and resonates with the 'One Health' agenda by highlighting the synergies between the human and veterinary vaccinology fields from scientific, technological and regulatory perspectives. The course emulates the successful series of [Jenner Institute training courses in Africa](#).

Please note applications to attend this course are closed.

Speakers

- Prof. Sandra Adams, University of Stirling, UK
- Prof. Stephen Baker, Wellcome Trust Centre, Ho Chi Minh City, Vietnam
- Dr. Bryan Charleston, Pirbright Institute, UK
- Dr. Tim Connelley, Roslin Institute, University of Edinburgh, UK
- Prof. Susanna Dunachie, University of Oxford, UK
- Dr. Gwenaelle Dauphin, Ceva Animal Health, UK
- Dr. Helen Fletcher, LSHTM, UK
- Prof. Sarah Gilbert, Jenner Institute, UK
- Prof. Adrian Hill, Jenner Institute, UK
- Dr. Danika Hill, Babraham Institute, UK
- Dr. Nicola Lewis, International Reference Laboratory for Avian and Swine Influenzas and Newcastle Disease, UK
- Dr. Nick Lyons, European Commission for the Control of Foot and Mouth Disease, Italy

Outline Programme

Day 1 – Principles of Vaccinology

- Introduction to human and veterinary vaccinology
- Human vaccine requirements in South East Asia
- Veterinary vaccine requirements in South East Asia
- Vaccine immunology
- The vaccine development pathway – an industry perspective

Day 2 – Vaccine Technologies and Developments

- Technologies in vaccine development
- Vaccine delivery systems
- Adjuvants
- Immunogenicity and correlates of protection
- Monitoring immune response: i) B-cells
- Monitoring immune response: i) T-cells
- Monitoring immune response: i) systems biology/transcriptomics

Day 3 – Major Vaccine Targets

- Malaria vaccines
- Enteric bacterial diseases
- Foot and mouth disease
- Tuberculosis
- Meloidosis
- Bacterial diseases in aquaculture
- Rabies
- Antimicrobial resistance
- Outbreak/emerging diseases

Day 4 – Vaccine field trials and deployment in developing countries

- Phase I trials
- Epidemiology and vaccine trial design
- Good clinical practice and safety, QC and QA
- Statistical analysis of vaccine trials
- Human trials
- Veterinary trials
- The role of NGOs
- Regulation and ethical issues
- Socio-economics of vaccine use

Day 5 – Influenza as a case study of vaccine design and use

- Epidemiology of influenza
- Immunology of influenza
- Influenza vaccine manufacturing
- Novel influenza vaccines
- Influenza vaccine trials
- Regulation and socio-economics of influenza vaccines (zoonosis and private/public good)



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