**GCRF Networks in Vaccines Research & Development Vaccinology Training Workshop**

**Monday 3rd - Friday 7th December 2018**

**Hotel Anantara, Bangkok, Thailand**

**Application Form**

**Announcement of course and scholarship – 2nd August 2018**

**Closing date for applications – 9th September 2018**

**Notification of successful applicants – 26th September 2018**

The GCRF Networks in Vaccines Research and Development ([IVVN](https://www.intvetvaccnet.co.uk/), [BactiVac](https://www.birmingham.ac.uk/research/activity/immunology-immunotherapy/research/bactivac/index.aspx), [HIC-Vac](https://www.hic-vac.org/), [IMPRINT](http://www.imprint-network.co.uk/), and [VALIDATE](https://www.validate-network.org/)) are running a 5 day workshop on veterinary and human vaccinology 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).

**Who is this training workshop for?**

This vaccinology training workshop is aimed at researchers in the field of human and animal vaccinology who want to increase their level of knowledge and understanding in various aspects of vaccinology including the vaccine development process, biomanufacturing, regulatory and ethical issues. The workshop 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 links and synergies between the human and veterinary vaccinology fields from scientific, technological and regulatory perspectives. The workshop emulates the successful series of [Jenner Institute training courses in Africa](http://www.jenner.ac.uk/vaccinology-in-africa-course).

Preference for allocation of scholarships will be given to:

* Early career researchers (defined as individuals who do not currently hold a substantive position within their organisation) resident in the UK or ASEAN countries
* students (defined as individuals who are registered as university postgraduate students, including Doctoral Researchers) resident in the UK or ASEAN countries

**How many scholarships are available?**

This workshop is being coordinated and delivered through the [IVVN Network](https://www.intvetvaccnet.co.uk), with additional financial support provided by each of the vaccinology networks via network sponsored scholarships. There are a total of **40 scholarships** available to attend this workshop, of which HIC-Vac will provide up to 5. Applicants for HIC-Vac scholarships must be members of the HIC-Vac Network and be early career-researchers (i.e. registered higher-degree students or post-doctoral scientists). Places are available for applicants from the UK and LMICs with preference being given to applicants from ASEAN countries

**What costs will be covered by the scholarship?**

The scholarship will be awarded directly through each of the networks and the organisers will cover the following costs:

* Workshop registration fees
* Flights and visa’s will be arranged by the organisers on your behalf
* Accommodation during your attendance at the workshop which will be arranged centrally
* Meals during your attendance at the workshop
* Reasonable costs of your transportation to/from your local airport will be refunded to the maximum value of USD50 on presentation of original receipts and completion of the relevant documentation, provided by the organisers

Any other costs incurred by the applicant during their stay will need to be met directly by the applicant and cannot be claimed as part of the scholarship.

*Please complete each section (where stated, word limit must be adhered to)*

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| 1. **Applicant Details**
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| Surname |  |
| First Name |  |
| Post Held |  |
| Please indicate which categories apply |

|  |  |
| --- | --- |
| Registered student\* | Yes / No |
| Early Career Researcher\*\* | Yes / No |
| Other – please specify: |  |

*\* Definition of 'student' - anyone who is registered as a university postgraduate student, including Doctoral Researcher**\*\* Definition of ‘Early Career Researcher’ - anyone who currently does not hold a substantive contract with their organisation* |
| Organisation/Institution |  |
| Country of residence |  |
| Email address |  |
| Telephone number |  |
| GCRF Vaccine Network Membership | Please indicate if you are a member of any of the following Networks and which networks you plan to submit a scholarship application to:

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| --- | --- | --- |
| **Network** | **Member?** | **\*Application?** |
| [IVVN](https://www.intvetvaccnet.co.uk/) | Yes / No | Yes / No |
| [BactiVac](https://www.birmingham.ac.uk/research/activity/immunology-immunotherapy/research/bactivac/index.aspx) | Yes / No | Yes / No |
| [HIC-Vac](https://www.hic-vac.org/) | Yes / No | Yes / No |
| [IMPRINT](http://www.imprint-network.co.uk/) | Yes / No | Yes / No |
| [VALIDATE](https://www.validate-network.org/) | Yes / No | Yes / No |

Applicants whose work predominantly focuses on veterinary research should apply through the IVVN.***\**** *Applications to more than one network are allowable. However, we would strongly encourage you to submit an application to the network that is most closely aligned to within your area of research.* |

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| 1. **Career to date and personal research interests:** Please outline your career to date and describe your current and/or future research interests and how these align to Network-associated research priorities (non-confidential, max 400 words)
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| 1. **Continuing Professional Development**: Please detail how this training opportunity will contribute to your professional development in Network-associated relevant research

(non-confidential, max 200 words) |
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| 1. **Signed and dated by applicant**

Electronic signatures are acceptable if the application is submitted from the applicant’s e-mail address |
| Signature: Dated:  |

**Required additional documents**

Please include the following documents with your application:

* CV (max 2 page) and publications list (max 2 page)

**Application submission**

Please submit your application form by **12 midnight (GMT) on 9 September 2018** to our HIC-Vac Team at : c.puddephatt@imperial.ac.uk Please send any queries to this address. All applications must be submitted in ‘Word’ format.

**Useful resources**

HIC-Vac [Privacy Policy](https://www.hic-vac.org/sites/default/files/HIC-Vac%20Privacy%20Notice.pdf) : all information provided to us will be managed in accordance with this Policy.

IVVN [Privacy Policy](https://www.intvetvaccnet.co.uk/privacy-statement) : as this Workshop is being coordinated by the International Veterinary Vaccine Network, successful applicant details will be forwarded to the IVVN coordinators for the purposes of this event. The information will be retained by IVVN in accordance with their Privacy Policy.

[ASEAN listed countries](http://asean.org/asean/asean-member-states/)

[LMIC](http://www.oecd.org/dac/stats/documentupload/DAC_List_ODA_Recipients2014to2017_flows_En.pdf) listed countries

**Notification of acceptance**

Applicants will be notified of the outcome of their application by **24 September 2018**.

**TRAINING COURSE OVERVIEW**

**Speakers**

* Prof. Sandra Adams, University of Stirling, UK
* Prof. Stephen Baker, Wellcome Trust Centre, Ho Chi Minh City, Vietnam
* Prof. 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, France
* Dr. Helen Fletcher, Jenner Institute, 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 (EuFMD), Rome

**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: a case study of vaccine development 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)