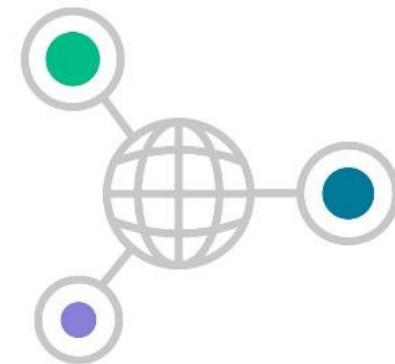
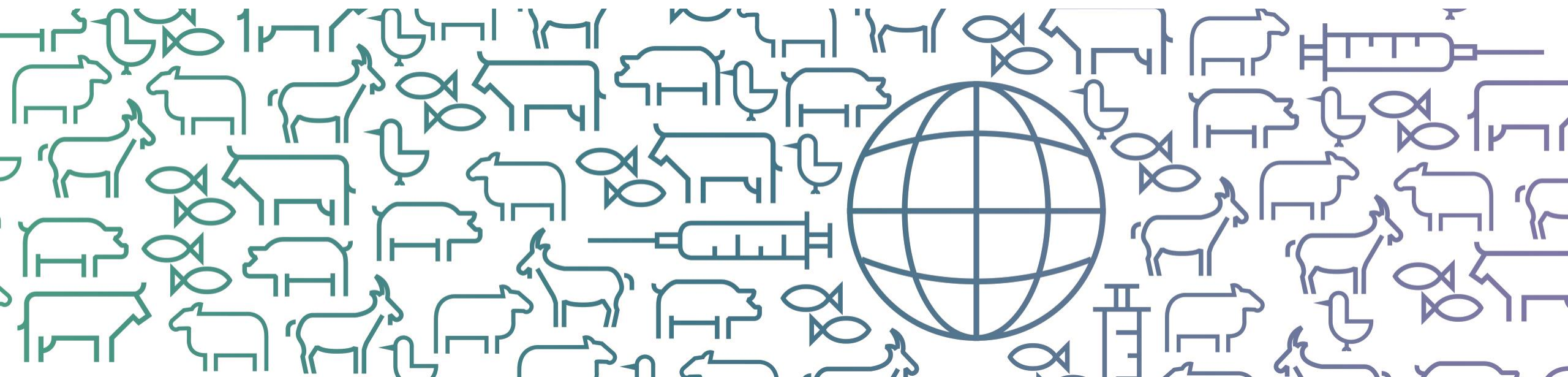


International Veterinary Vaccinology Network



Dr. Tim Connelley

19th January 2018



International Veterinary Vaccinology Network



An international, multidisciplinary community passionate about developing vaccines to improve animal and human health.

The International Veterinary Vaccinology Network (IVVN) was established in Aug 2017 & is funded by the MRC/BBSRC Grand Challenges Research Fund (GCRF).

The IVVN aims to:

- Facilitate the formation of international **collaborations** to improve vaccine design and development for livestock and zoonotic diseases in low-and-middle income countries (LMICs)
- Engage individuals from across the spectrum of **human and veterinary** vaccinology to overcome key bottlenecks in the development of effective vaccines
- Provide a **‘hub’ to serve the veterinary vaccinology community** and form a conduit between researchers, industry and funders.

Community led

International Veterinary Vaccinology Network



- Initial £2.1M investment with an additional £0.6M anticipated in February 2018
- Directed by Dr. Tim Connelley (Roslin Institute) and Dr. Bryan Charleston (Pirbright Institute)



Dr. Tim Connelley



Dr. Bryan Charleston

- We have welcomed 150 members from across 33 countries – new members are very welcome!
- Sign up on website www.intvetvaccnet.co.uk



Network Management Board



Prof Brian Perry,
Afrique One Aspire,
Vaccine deployment in
LMICs



Prof Vish Nene, ILRI,
Genomics



Prof Sandra Adams,
University of Stirling,
Fish immunology &
vaccine design



Dr. Jeremy Salt,
GALVmed,
Veterinary vaccine
development &
deployment for
LMICs



Dr. Michael Francis,
Biovacc,
Vaccine R&D strategy and
commercial development



Prof Adrian Hill,
Jenner Institute,
Vaccine development



Dr. George Warimwe,
KEMRI,
Vaccine Development



Prof Fiona Tomley,
RVC,
Parasitology, poultry
immunology



Dr. Baptiste Dungu,
MCI Sante Animale,
Vaccine development &
commercialisation



Dr. Pip Beard,
Pirbright Institute,
Virology

First meeting of the IVVN, Ole Sereni Hotel, Nairobi, Kenya, 26th & 27th March 2018



- Meeting will explore vaccine themes:
 - Vaccines for Zoonotic Diseases
 - Veterinary Vaccine Production in Africa
 - Synthetic Biology in Vaccine Development
 - Livestock Vaccines Here & Now
- Speakers from ILRI, APHA, KEMRI, FAO, LVIF, Synthetic Genomics, Afrigen, KEVEVAPI, AU PANVAC, BVI, Jenner Institute, Washington State University & AESA
- 27 scholarships have been awarded for researchers from LMICs to attend
- Scholarships for ECRs from non-LMICs will be made available shortly – sign up to become a member of the IVVN to receive further information, and to apply



Full programme and registration
available on our website

<https://www.intvetvaccnet.co.uk>

Other Networking Activities



- **Workshops:** convened and hosted by IVVN members to focus on specific topics/issues
 - very flexible in theme and format
 - funding for hosting and also for bursaries for attendees
- **Dissemination of information to the veterinary vaccinology community:**
 - Website <https://www.intvetvaccnet.co.uk>
 - Twitter @IntVetVaccNet
 - Blog <https://intvetvaccnet.wordpress.com/>
 - Monthly newsletters to IVVN members

Pump-priming awards



Aims:

- Overcome obstacles in development of vaccines for LMIC-relevant veterinary diseases
 - allowing collaborative teams that bring together complementary expertise to tackle problems in a novel way
-
- 1 - *The relevance of the scientific challenge being addressed*
 - 2 - *The significance of the potential outcome of the project*
 - 3 - *Feasibility of study*
 - 4 - **Dependency on Network interactions to conduct the study;** demonstration that the collaborative team will provide complementary expertise to surmount challenges that individual members working in isolation cannot.
 - 5 - **Innovation;** how using IVVN collaborations is allowing novel approaches to dealing with the identified challenge to be formulated.
 - 6 - **Opportunities for securing subsequent funding;** the potential output of the proposal must be sufficient to permit subsequent funding submissions to be made.

Application forms are short and administration/reporting as reduced as possible
Early career researchers encouraged to apply

Pump-priming awards



First call for pump-priming projects (October 2017) - received 18 applications and after external and internal review, 3 projects were awarded funding:

1) Development of immunological tools for monitoring the immune response of Nile tilapia

Professor Kim Thompson (Moredun Research Institute), Dr. Frederic Fellouse (University of Toronto), Professor Alexandra Adams (University of Stirling), Dr. Alasdair Nisbet (Moredun Research Institute), Dr. Hoang Nguyen (Vietnam National University, Ho Chi Minh City), Dr. Nguyen Ngoc Phuoc (Hue University of Agriculture and Forestry, Vietnam) & Professor Ruth Zadoks (University of Glasgow)

2) Low-cost thermostabilisation of a Rift Valley Fever vaccine for veterinary use

Dr. George Warimwe (KEMRI-Wellcome Trust Research Programme), Dr. Alexander D. Douglas (Jenner Institute) & Dr. Michael J. Francis (Biovacc Consulting Ltd)

3) A single dose vectored *Taenia solium* vaccine

Professor Adrian Hill (Jenner Institute), Professor Marshall Lightowlers (University of Melbourne) & Dr. Bryan Charleston (The Pirbright Institute)

Next call for pump-priming project proposals will be announced at the end of March 2018

Other Catalyst activities



- **Laboratory exchange awards:** to facilitate technology/skill transfer up to £10,000
 - technology transfer, completion of small projects requiring collaboration
 - cover costs of travel, accommodation and some consumable budget
- first call will be announced shortly

Additional Funding Allocation



- **Vaccinology MSc. level 1 week course**
 - Replication of successful and over-subscribed course run by Jenner Institute in Africa
 - Likely venue in SE Asia (with online access?)
- **Female LMIC scientist mentoring scheme**
 - Will include two £50K awards to allow mentee to spend time in mentors labs and return with consumable/capital budget to home institution
 - Will be seeking to establish a more general mentoring scheme to assist gender balance but also to support junior researchers (male and female, LMIC and non-LMIC based)
- **Industrial liaison officer**
 - Recruitment of industrial liaison officer to provide an interface between academia and potential industrial partners
 - Form a 'one-stop' database of resources for vaccine researchers
- **Additional Pump-priming awards**

Upcoming IVVN opportunities



1) Scholarships for non-LMIC Early Career Researchers to attend IVVN meeting in March 2018

- 10 scholarships up to £1000 will be available to cover travel and accommodation
- Call for applications will be announced shortly, please register to become a member of the IVVN at <https://www.intvetvaccnet.co.uk> to receive further information

2) Industrial Liaison Officer

- We will be recruiting an Industrial Liaison Officer in the next few months to establish a veterinary vaccinology database, and to link academia with industry
- If you are interested in this vacancy, please e-mail IVVN@roslin.ed.ac.uk for more information

Questions to you.....



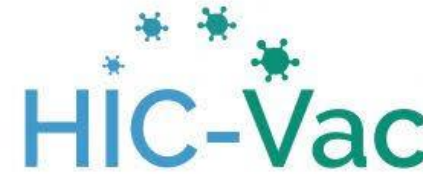
- Is there anything else the IVVN should be doing?
- What topics/themes would you like to see in Annual Meetings or Workshops?
- Is there any group that needs better representation in the NMB?
- Become a member:
 - Transfer memberships from VVN to IVVN
 - Sign up to follow us on twitter

Other GCRF Vaccine Networks



VALIDATE (Vaccine development for complex intracellular neglected pathogens)

<http://www.validate-network.org>



The Human Challenge Model (Hic-Vac) Network

<https://www.hic-vac.org>



Bacterial Vaccines (BactiVac) Network

www.birmingham.ac.uk/bactivac



Immunising pregnant women and infants (IMPRINT) Network

<http://www.imprint-network.co.uk/>

Thanks

- Carly Hamilton
- Bryan Charleston
- NMB members
- Founding IVVN members
- Madeleine Clark

