

# Pioneering organoids and 3D cell cultures for animal and human health

16 April 2024

Webinar 10:00-15:00 BST

10:00 Opening remarks – Dr Wilhelm Gerner (Chair of CVIG, The Pirbright Institute, UK)

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## Session 1 – Invited speakers

Chair: Dr Tom McNeilly, Moredun Research Institute, UK

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10:05 **A perspective on human organotypic models for human viruses**  
Dr Adithya Sridhar, Amsterdam UMC, Netherlands (*Invited speaker*)

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10:35 **Apical-out chicken enteroids with lamina propria leukocytes as a model to study virulence of low pathogenic avian influenza viruses**  
Dr Kate Sutton, The Roslin Institute, UK (*Invited speaker*)

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11:05 Break

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11:15 **Helminths, hyper immunity, and organoids**  
Dr David Smith, Moredun Research Institute, UK (*Invited speaker*)

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11:45 **Are organ platforms the way forward for discovery research in large animals?**  
Dr Dirk Werling, Royal Veterinary College London, UK (*Invited speaker*)

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12:15 Lunch break

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## Session 2 – Industry talk and selected abstracts

Chair: Dr Kate Sutton, Roslin Institute, UK

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13:15 **Intestinal Organoids as a Model for Therapeutic Development**  
Dr Roxana Micsik, STEMCELL (*Industry talk*)

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13:30 **Tonsil organoids reveal that plasmacytoid dendritic cells modulate the humoral immune response to ChAdOx1 nCoV-19**  
Maria Fransiska Pudjohartono, University of Oxford, UK (*Selected abstract*)

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13:40 **New physiological and predictive in vitro models for a better understanding of host-pathogen interactions and improved control of respiratory infections**  
Dr Fabienne Archer, IVPC UNIV-LYON1 - INRAE – EPHE, France (*Selected abstract*)

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13:50 **A 3D biomimetic cell culture model for studying human TB**  
Dr Liku B Tezera, University of Southampton, UK (*Selected abstract*)

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- 14:00    **Functional evaluation of processed human milk using human intestinal enteroids**  
Nina Johannesson, Amsterdam UMC, Netherlands (*Selected abstract*)
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- 14:10    **Characterising the ovine small intestine Tuft cell response using 3D organoid cultures**  
Dr Katie Hildersley, Moredun Research Institute, UK (*Selected abstract*)
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- 14:20    ***Chicken enteroids: a novel method to measure effects of feed additives on intestinal health***  
Professor Lonneke Vervelde, Royal GD Animal Health/Roslin Institute, UK (*Selected abstract*)
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- 14:30    Break
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- 14:35    **Panel discussion with invited speakers**  
Chair: Dr Wilhelm Gerner, The Pirbright Institute, UK
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- 14:55    Closing remarks  
Dr Kate Sutton, The Roslin Institute, UK
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- 15:00    Meeting close
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