

CRACK IT Review Panel (Virtual Infectious Disease Research) – Membership and Expertise

Panel Member Name	Organisation	Expertise
Professor Thomas MacDonald (Chair)	Queen Mary University of London	Gastrointestinal tract immunology- T cell, inflammation, inflammatory bowel disease, allergy, signalling, immune regulation, gut epithelium.
Dr Mark Braganza	TPG Biotech	
Professor Clare Bryant	University of Cambridge	Innate Immunity; Role that Pattern Recognition Receptors play in the immune response generated against infection. Use of mathematical models and physical techniques to explore how bacteria infect cells.
Dr Roman Lukaszewski	Defence, Science & Technology Laboratory	The diagnosis of infectious disease, host-pathogen interactions and mathematical modelling of infection.
Professor Mark Stevens	University of Edinburgh	<i>Salmonella</i> , <i>Campylobacter</i> and <i>Escherichia coli</i> infections in food-producing animals, with emphasis on the molecular mechanisms underlying persistence, pathogenesis and protection; Challenge models in cattle, pigs and chickens; Role of host and bacterial factors during infection toward the rational design of control strategies.
Dr Marcus Tindall	University of Reading	Mathematical modelling in cardiovascular cell biology, lipoprotein metabolism, genetic regulation and protein-protein interaction pathways, bacterial chemotaxis, tumour growth; Multi-scale modelling; Synthetic Biology.
Professor Fiona Tomley	Royal Veterinary College	Biology and control of protozoan parasites that cause disease in livestock, especially poultry. Interaction of parasites with the host. Eimeria genomics, transcriptomics, proteomics and reverse genetics. Sustainable poultry production and global food security. Livestock health and infectious disease.
Dr Steven Webb	University of Liverpool	Mathematical and systems biology, particularly modelling cell-cell interactions, pharmacology, cancer, computational cell biology and infectious diseases; Computational and mathematical techniques ranging from individual based models, correlation equations, stochastic moment closure systems to ordinary and partial differential equations and numerical analysis.

NC3Rs sponsors this Challenge

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