

# Biological challenges to effective vaccines in the developing world

Monday 10 – Tuesday 11 November 2014

Organised by Professor Nicholas Grassly, Professor Gagandeep Kang and Professor Beate Kampmann

THE  
ROYAL  
SOCIETY

DAY 1				DAY 2			
<b>SESSION 1: Environmental effects on the developing immune system and vaccine response</b> Chair Gagandeep Kang		<b>SESSION 2: The intestinal microbiota and response to oral vaccines</b> Chair Nicholas Grassly		<b>SESSION 3: What should we measure to understand and improve vaccine response?</b> Chair Beate Kampmann		<b>SESSION 4: Prospects for better vaccines and vaccination strategies in low-income countries</b> Chair Myron Levine	
09:00	Welcome by Royal Society & Nicholas Grassly						
09:05	<b>Alison Elliott</b> Maternal exposure to infection and the infant response to BCG and other vaccines	13:30	<b>Partha Majumder</b> Genomics of immune response to typhoid and cholera vaccines	09:00	<b>Bali Pulendran</b> Systems-based approaches to vaccine development	13:30	<b>Rino Rappuoli</b> Getting new vaccines to people who need them
09:30	Discussion	14:00	Discussion	09:30	Discussion	14:00	Discussion
09:45	<b>Valérie Verhasselt</b> Immune tolerance induction by breastfeeding	14:15	<b>William Petri</b> Environmental enteropathy, coinfection and oral vaccine response	09:45	<b>Andrew Pollard</b> Genes and vaccine responses	14:15	<b>Cecil Czerkinsky</b> Developing vaccines against enteric infections in developing countries
10:15	Discussion	14:45	Discussion	10:15	Discussion	14:45	Discussion
10:30	Coffee	15:00	Tea	10:30	Coffee	15:00	Tea
11:00	<b>David Goldblatt</b> Responses to pneumococcal vaccines in the context of HIV infection	15:30	<b>Gagandeep Kang</b> Do probiotics and antibiotics improve antibody responses to oral vaccines and natural infection?	11:00	<b>Beate Kampmann</b> Innate immunity and vaccine responses in African infants	15:30	<b>Chris Wilson</b> Knowable unknowns along the path to effective vaccines for HIV, malaria and other global health challenges
11:30	Discussion	16:00	Discussion	11:30	Discussion	16:00	Discussion
11:45	<b>Andrew Prendergast</b> Malnutrition and response to vaccines	16:15	<b>Paul Kelly</b> All-trans retinoid acid as an oral adjuvant	11:45	<b>Shane Crotty</b> Follicular helper T cells and immune memory	16:15	<b>Summary of discussions and closing remarks</b>
12:15	Discussion	16:45	Discussion	12:15	Discussion		
12:30	LUNCH	17:00	CLOSE	12:30	LUNCH	17:00	CLOSE

Draft programme – correct as of 06/11/2014 – subject to change