

# VACCINES 2014

## AGENDA



20TH - 22ND OCTOBER 2014  
LONDON, UK

EuroSciCon 

A three day event discussing aspects of vaccine development and vaccinations.

With plenty of opportunity for networking and debate, this informal international meeting will bring you up to date with current research and thinking regarding vaccines and vaccination.

This event has an open poster session. Posters can be submitted on any subject related to vaccines and vaccination

This event has CPD accreditation

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## Program Outline

### Day 1: Next Generation Vaccines: Adjuvants and delivery systems

This session will discuss current research into the development of new or enhanced adjuvants and novel delivery systems which are widely accepted as key to creating more efficacious vaccines with improved methods for storage and delivery. **Session Chair:** *Dr Manmohan Singh*, Novartis Vaccines, North Carolina, USA

Manmohan Singh PhD is currently heading the Global Drug Product Development function within Novartis Vaccines. He is a licensed Pharmacist and holds a Masters and a PhD in Pharmaceutics from the National Institute of Immunology, New Delhi India. He has worked with Novartis Vaccines and formerly Chiron Corporation for over 18 years. He is also an Adjunct Professor at the University of North Carolina Chapel Hill Eshelman School of Pharmacy. His experience over the years has focused on developing novel adjuvants and vaccine delivery systems for prophylactic vaccination along with rational design of new vaccine formulations for Novartis discovery projects. Manmohan has been involved with many aspects of vaccine discovery and development in several bacterial and viral projects over the years within Novartis. Manmohan and his team have pioneered several novel vaccine formulation approaches based on nanoemulsions and microparticles. He is the author of over 128 original research publications, editor of four book on vaccine research and development and is an inventor on 47 issued patents. He was elected as a Fellow of the American Association of Pharmaceutical Scientists (AAPS) in 2011.

### Day 2 Morning: Modulating the Immune system, for vaccination

**Session Chair:** *Dr Yuan Min Wang*, Senior Scientist, Senior Lecturer, University of Sydney Renal Laboratory, Centre for Kidney Research, Australia

[Dr Yuan Min Wang](#) is currently working at the Centre for Kidney Research as a Senior Scientist and a Senior Lecturer in the University of Sydney, Australia. Dr Wang worked as a Gastroenterologist in China since 1987, obtained her Master's Degree in the National University of Singapore in 1997. She completed a PhD at University of Sydney in 2002. For the last ten years, Dr Wang has led a program of research in DNA vaccination, regulatory T cells in renal disease. Her high quality research work has been demonstrated by leading journal publications in nephrology and in national and international conference presentation.

### Day 2 Afternoon: Advances in overcoming co-infections

The advent of effective combination antiretroviral therapy has made living with, rather than dying from HIV-1 infection a reality. Now, an ageing HIV-1 seropositive population are living with co-infection by pathogens for which effective treatments remain in development. As the effort to develop prophylactic or therapeutic vaccines continue, this session will highlight advances in the science of pathogens commonly found as co-infections in people living with HIV.

**Session Chair:** *Christopher JK Ward*, Innate Immune Sensors Group Institute of Infection & Immunity Cardiff University School of Medicine

Chris Ward has reported on Early Phase advances in HIV-1 immunotherapeutics as well as pattern recognition and host immune evasion themes. His PhD thesis concerns the innate immune recognition of HIV-1 and hepatotropic viruses. Chris sits on the scientific & clinical trial monitoring advisory board of the largest pan-European and Central Asian HIV, HCV and TB patient advocacy group, which advises major pharmaceutical companies concerning clinical trial protocol for compounds used in mono- and co-infected patients. This involvement has nurtured a special academic interest in the immunology of HIV/HCV co-infection.

### **Day 3: The use of pseudotypes to study viruses, virus sero-epidemiology and vaccination**

The switching of envelope glycoproteins expressed on the surface of pseudotype viruses enables them to be used as surrogate viruses in neutralization/antiviral screening assays and for the study of virus-cell interactions. This day will discuss ongoing research, new assay development and applications using pseudotype viruses for the study of viruses, vaccine immunogenicity and virus sero-epidemiology.

#### ***Morning Session: Human virus pseudotypes.***

**Chair:** *Dr Nigel Temperton*, Senior Lecturer, Viral Pseudotype Unit, University of Kent, UK

Nigel Temperton obtained his BSc in Microbiology and Genetics from UCL in 1990 and an MSc in Applied Molecular Biology of Infectious Diseases (1992), PhD in Molecular Parasitology (1999) and DLSHTM (2000) from LSHTM. After his PhD, Nigel returned to UCL as a post-doctoral scientist at the Centre for Virology. In 2003 Nigel transferred to the MRC/UCL Centre for Medical Molecular Virology initially as a senior post-doctoral scientist and subsequently Principal Investigator, funded by the MRC and industry. He is currently a Senior Lecturer at the Medway School of Pharmacy and Principal Scientist at the Viral Pseudotype Unit.

#### ***Afternoon Session: Animal virus pseudotypes***

**Chair:** *Dr Simon Scott*, Lecturer, Viral Pseudotype Unit, University of Kent, UK

Simon Scott began his research career as a DNA virologist, working in Cambridge and Newmarket on the molecular biology of animal herpesviruses. Following an EU fellowship in Amsterdam studying human papillomavirus oncology, he spent over a decade undertaking research in field of cancer gene therapy using DNA and RNA virus delivery vectors, in both the UK and USA. After joining the University of Kent he established the Viral Pseudotype Unit with Dr Nigel Temperton. The focus of his pseudotype work since has been on neglected influenza viruses and more recently emerging RNA viruses from other virus families (e.g. flaviviruses, bunyaviruses).

- Morning Poster Session: Human virus pseudotype
- Afternoon Poster Session: Animal virus pseudotypes.

**Agenda** (Talk times include 5 – 10 minutes for questions)

<b>Day 1: Next Generation Vaccines: Adjuvants and delivery systems</b>		
09:00 – 09:45	<b>Exhibitions open</b>	Registration and Refreshments
09:45 – 10:30	<b>Introduction by the Chair Optimizing delivery of next generation immune potentiators</b>	<i>Dr Manmohan Singh</i> , Novartis Vaccines, North Carolina, USA
10:30 – 11:00	<b>Immunomodulation through lipopeptide structure-activity relationships for the development of a synthetic self-adjuvanting Group A streptococcus vaccine candidate</b>	<i>Dr Mehruz Zaman</i> , NHMRC Early career research fellow, Institute for Glycomics, Griffith University, Southport, QLD, Australia
11:00 – 11:30	<b>Session Break and Photo</b>	Refreshments, Poster viewing, Sponsors exhibition
11:30 – 12:00	<b>Exploiting liposomes to enhance the delivery and targeting of vaccines</b>	<i>Professor Yvonne Perrie</i> , Aston University, Birmingham, UK
12:00 – 12:30	<b>Effect of T follicular helper cells in enhancement of vaccine immunogenicity by modern vaccine adjuvants</b>	<i>Dr Qibo Zhang</i> , MD, PhD, Senior Lecturer in Immunology, University of Liverpool, UK
12:30 – 13:15	<b>Oral Presentations</b> 12:30 – 12:45 <b>A Th1 PROMOTING SUBUNIT VACCINE FOR HUMAN RHINOVIRUSES</b> <i>G McLean</i> <sup>1</sup> , N Glanville <sup>1</sup> , V Lecouturier <sup>2</sup> , C Berry <sup>2</sup> , Y Gired <sup>2</sup> , C Gregoire <sup>2</sup> , R Walton <sup>1</sup> , R Pearson <sup>1</sup> , T Kedadze <sup>1</sup> , N Burdin <sup>2</sup> , N Bartlett <sup>1</sup> , J Almond <sup>2</sup> , S Johnston <sup>1</sup> <sup>1</sup> Airways Disease Infection Section, National Heart and Lung Institute, Imperial College London, Norfolk Place, London, W2 1PG UK <sup>2</sup> Sanofi Pasteur, Marcy L'Etoile, France  12:45 – 13:00 <b>IMPROVING STABILITY OF MEASLES AND MUMPS VACCINES BY REPLACING HUMAN SERUM ALBUMIN WITH AMINO ACIDS MIXES</b> <i>F.M. Lopez Cardoso</i> <sup>1,2</sup> , D. Petrovajová <sup>1</sup> , M. Buvanová <sup>1</sup> , I. Lojanová <sup>1</sup> and T. Horňáková <sup>1</sup> <sup>1</sup> Imuna Pharm a.s., Jarková 17, 082 22 Šarišské Michaľany, Slovakia  13:00 – 13:15 <b>CONSTRUCTION OF RECOMBINANT VACCINES BASED ON METALLOCHELATING NANOLIPOSOMES AND NORABUMDP MOLECULAR ADJUVANS: LYMES DISEASE AS AN EXAMPLE</b> RNDr. Jaroslav Turánek, CSc, Veterinary Research Institute, Brno, Czech Republic	
13:15 – 14:00	<b>Session Break</b>	Lunch, Poster viewing, Sponsors exhibition
13:30 – 14:00	<b>Discussion Session</b>	
14:00 – 14:30	<b>Modular, adaptable Nanoparticle-based vaccines and applications</b>	<i>Dr Tarek Fahmy</i> , PHD, Yale University, New Haven, USA
14:30 – 15:15	<b>Oral Presentations</b> 14:30 – 14:45 <b>VAXONELLA: ORAL VACCINE DELIVERY USING ATTENUATED SALMONELLA VECTORS</b> <i>R. M. Cranenburgh</i> . <a href="mailto:rocky.cranenburgh@prokarium.com">rocky.cranenburgh@prokarium.com</a> <i>Prokarium Ltd, Stephenson Building, Keele Science Park, Keele, Staffordshire, ST5 5SP, UK.</i>  <b>PRACTICAL APPROACH TO HERPES ZOSTER VACCINE DEVELOPMENT: LIVED ATTENUATED VARICELLA ZOSTER VIRUS ISOLATE NOT ASSOCIATED WITHIN HOST CELLS AS POSSIBLE VACCINE CANDIDATE.</b> 14:45 – 15:00 <i>Sidorov A.V.</i> , Nagieva F.G., Barkova E.P., Nikulina V.G., Pham Huy Phong, Lisakov A.N., Zverev V.V. <i>Mechnikov Research Institute for Vaccines and Sera, Moscow, Russia</i>  15:00 – 15:15 <b>MARINE BACTERIOCIN-PRODUCING PROTEUS AND KLEBSIELLA STRAINS WITH THE POTENTIAL FOR THE PRODUCTION OF SAFE PROBIOTICS AND IMMUNOSTIMULANTS AGAINST ENTERIC PATHOGENS</b> <i>Van Duy Nguyen</i> <sup>1*</sup> <sup>1</sup> Institute of Biotechnology and Environment, Nha Trang University, Nha Trang, Khanh Hoa, Vietnam	
15:15 – 15:45	<b>Session Break</b>	Refreshments, Last poster viewing, Last Sponsors exhibition
15:45 – 16:15	<b>Tubular immunostimulating complex based on glycolipid and saponin from marine hydrobiont</b>	<i>Professor Nina Sanina</i> , Far Eastern Federal University, Russia
16:15 – 16:45	<b>The Next Generation of Vaccines, Adjuvants, and Delivery Systems: Lessons from the Past 50 Years</b>	<i>Dr Lawrence Dean Frenkel</i> , Professor, Departments of Pediatrics and Microbiology, University of Illinois, USA
16:45 – 17:00	<b>Chairman's Summing Up</b>	Close of Session

## Day 2, Session 1: Modulating the Immune system, for vaccination

09:00 – 09:45	<b>Exhibitions open</b>	Registration and Refreshments
09:45 – 10:30	<b>Introduction by the Chair</b>  <b>DNA Vaccination Encoding CD40 Targeted to Dendritic Cells Protects Against Chronic Kidney Disease.</b>	<a href="#">Dr Yuan Min Wang</a> , Senior Scientist, Senior Lecturer, University of Sydney Renal Laboratory, Centre for Kidney Research, Australia
10:30 – 10:55	<b>Protein nanoparticles with built-in adjuvant properties</b>	<a href="#">Professor Peter Burkhard</a> , PhD, Department of Molecular and Cell Biology, The Institute of Materials Science, University of Connecticut, CT, USA
10:55-11:05	<b>Oral Presentation</b> <b>MICRO CRYSTALLINE TYROSINE (MCT): ITS USE AS A DEPOT CARRIER IN ALLERGY IMMUNOTHERAPY, FUTURE PERSPECTIVES AND APPLICATIONS</b> Heath, M.D <sup>1</sup> , Kramer, M.F <sup>1</sup> , Johansen, P <sup>2</sup> , Kuendig, T <sup>2</sup> , and Skinner, M.A <sup>1</sup> . <sup>1</sup> Allergy Therapeutics, Worthing, UK <sup>2</sup> University of Zurich Hospital, Department of Dermatology	
11:05 – 11:30	<b>The combined effects of genetic background and mannose-binding lectin ligands on the response to an avian coronavirus vaccination</b>	Dr Rikke Munkholm Kjærup, Dept. of Animal Science, Aarhus University, Blichers Allé Tjele, Denmark
11:30 – 11:50	<b>Session Break &amp; photo</b>	Refreshments, Poster viewing, Sponsors exhibition
11:50 – 12:15	<b>SMARTer Vaccines: Next-Generation Vaccinia Virus Vaccine and Therapeutic Vectors Assistant</b>	<a href="#">Dr Paulo H. Verardi</a> , Associate Professor, University of Connecticut, Storrs, CT, USA
12:15- 12:35	<b>Oral Presentations</b> 12:15 – 12:25 <b>EVALUATION OF IMMUNE RESPONSE INDUCED BY DNA VACCINE COCKTAIL EXPRESSING COMPLETE LACK AND TSA GENES AGAINST LEISHMANIA MAJOR</b> Fatemeh Ghaffarifar <sup>1*</sup> , Ogholniaz Jorjani <sup>2</sup> , Zohreh Sharifi <sup>3</sup> , Abdolhossein Dalimi <sup>1</sup> , Zuhair M. Hassan <sup>4</sup> , <sup>1</sup> Parasitology and Entomology Department, Faculty of Medical Sciences, Tarbiat Modares University, P.O. Box: 14115-331, Tehran I.R.Iran. <sup>2</sup> Department of Biotechnology, Faculty of Advanced Medical Technology, Golestan University of Medical Sciences, Gorgan, Iran. <sup>3</sup> Research Center of Iranian Blood Transfusion Organization, Tehran, I.R.Iran. <sup>4</sup> Department of Immunology, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, I.R.Iran  12:25 – 12:35 <b>EVALUATION OF IMMUNE RESPONSE INDUCED BY DNA VACCINE CONTAIN GRA7 GENE AGAINST TOXOPLASMA GONDII</b> Zohreh Sharifi <sup>1*</sup> , Hossein Vazini Gheisar <sup>2</sup> , Fatemeh Ghaffarifar <sup>3</sup> , Abdolhossein Dalimi <sup>3</sup> , <sup>1</sup> Research Center of Iranian Blood Transfusion Organization, Tehran, I.R.Iran. <sup>2</sup> Faculty of Medical Sciences, Azad University, Hamadan, I. R. Iran. <sup>3</sup> Parasitology and Entomology Department, Faculty of Medical Sciences, Tarbiat Modares University, P.O. Box: 14115-331, Tehran I.R.Iran.	
12:35 – 13:30	<b>Session Break</b>	Lunch, Poster viewing, Sponsors exhibition
13:30 – 14:00	<b>Discussion session</b>	
14:00 – 14:25	<b>Improving the cellular immune response obtainable by adenovirus vectored vaccines</b>	<a href="#">Dr Peter J. Holst</a> , Department of International Health, Immunology and Microbiology, University of Copenhagen, Copenhagen, Denmark
14:25 – 14:35	<b>Oral Presentations</b> <b>EFFECT OF INTERLEUKIN-22 ON IMMUNOGENICITY OF DNA VACCINE ENCODING TSA GENE OF LEISHMANIA MAJOR IN BALB/C MICE</b> Hajar Ziaei-Hezarjaribi <sup>1</sup> , Fatemeh Ghaffarifar <sup>2</sup> , Abdolhossein Dalimi-Asl <sup>2</sup> , Zohreh Sharifi <sup>3</sup> , <sup>1</sup> PhD, Assistant Professor, Department of Parasitology, School of Medicine, Mazandaran University of Medical Sciences, Sari, Iran <sup>2</sup> PhD, Professor, Department of Parasitology, School of Medicine, Tarbiat Modares University, Tehran, Iran <sup>3</sup> PhD, Professor, Department of Virology, Blood Transfusion Research Center, Tehran, Iran	
14:35 – 15:00	<b>Session Break</b>	Refreshments, Last poster viewing, Sponsors exhibition
<b>Day 2, Session 2: Advances in overcoming co-infections</b>		
15:00 – 15:40	<b>Introduction by the Chair</b>  <b>The introductory talk will briefly outline current understanding of major HIV-1 co-infections.</b>	<a href="#">Mr Christopher Ward</a> , Innate Immune Sensors Group, Institute of Infection & Immunity, Cardiff University School of Medicine, University Hospital of Wales
15:40 – 16:10	<b>Virus Related Cancer In Immunosuppressed Individuals</b>	<a href="#">Dr Pierluca Piselli</a> , Istituto Nazionale Malattie infettive Lazzaro Spallanzani, Rome, Italy
16:10 – 16:40	<b>Talk to be confirmed</b>	<a href="#">Dr Sanjay Bhagani</a> , Royal Free London, UK
16:40	<b>Chairman's Summing Up</b>	<b>Close of Session</b>

<b>Day 3: The use of pseudotypes to study viruses, virus sero-epidemiology and vaccination</b>		
09:00 – 09:45	<b>Exhibitions open</b>	Registration and Refreshments
09:45 – 10:00	<b>Introduction by the Chair: Human virus pseudotypes.</b>	<i>Dr Nigel Temperton</i> , Senior Lecturer, University of Kent, UK
10:00 – 10:30	<b>Virus pseudotypes: from oncology to vaccinology</b>	<a href="#"><i>Robin Weiss</i></a> , Emeritus Professor of Viral Oncology, University College London, UK
10:30 – 11:00	<b>Pseudotypes versus traditional Virus Neutralization, advantage and future perspectives</b>	<i>Professor Emanuele Montomoli</i> Dept. of Molecular and Developmental Medicine, University of Siena, Siena, Italy
11:00 – 11:30	<b>Session Break and Photo</b>	Refreshments, Poster viewing, Sponsors exhibition
11:30 – 12:00	<b>Patch delivered vaccines and immunity</b>	<i>Dr Anne Moore</i> , School of Pharmacy, University College Cork, Ireland
12:00 – 12:30	<b>Evaluation of a pseudotyped lentivirus-based neutralisation assay for potency testing of post exposure prophylaxis rabies immunoglobulins</b>	<i>Dr Giada Mattiuzzo</i> , The National Institute for Biological Standards and Control, The Medicines and Healthcare Products Regulatory Agency, Blanche Lane, South Mimms, Potters Bar, U.K.
12:30 – 13:00	<b>Stable HIV-based pseudo type particles and sugar antigen display on retroviral pseudo type particles.</b>	<a href="#"><i>Dr Yasuhiro Takeuchi</i></a> , Wohl Virion Centre, Cruciform Building, Gower Street, London, UK
13:00 – 13:30	<b>Session Break</b>	Lunch, Poster viewing, Sponsors exhibition
13:30 – 13:45	<b>Introduction by the Chair: Animal virus pseudotypes.</b>	Chair: <i>Dr Simon Scott</i> , University of Kent, UK
13:45 – 14:15	<b>Adeno-Associated viral (AAV) pseudotyping as a tool for gene therapy and genetic vaccine applications</b>	<i>Dr Takis Athanasopoulos</i> , Ph.D, Lecturer in Molecular Biotechnology, Faculty of Science and Engineering, University of Wolverhampton, Wolverhampton, UK
14:15 – 14:45	<b>Responding to emerging viruses using pseudotypes</b>	<a href="#"><i>Dr Edward Wright</i></a> , Veterinary Laboratories Agency (Civil Service). Rabies and Wildlife Zoonoses Group, Surrey, UK
14:45 – 15:15	<b>Session Break</b>	Refreshments, Last poster viewing, Last Sponsors exhibition
15:15 – 15:45	<b>Lyophilisation of lentiviral pseudotypes for the development and distribution of virus neutralisation assay kits for influenza, Marburg and rabies viruses</b>	<a href="#"><i>Dr Stuart Mather</i></a> , Medway School of Pharmacy, Viral Pseudotype Unit, University of Kent, UK
15:45 – 16:15	<b>Influenza Vaccine Development</b>	<i>Dr Teresa Lambe</i> , Jenner Institute, Oxford, UK
16:15 – 17:00	<b>Discussion Panel</b>	
17:00	<b>Chairman's Summing Up</b>	<b>Close of Meeting</b>

# About the Speakers

## Day 1

**Manmohan Singh**, Novartis Vaccines, North Carolina, USA

Manmohan Singh PhD is currently heading the Global Drug Product Development function within Novartis Vaccines. He is a licensed Pharmacist and holds a Masters and a PhD in Pharmaceutics from the National Institute of Immunology, New Delhi India. He has worked with Novartis Vaccines and formerly Chiron Corporation for over 18 years. He is also an Adjunct Professor at the University of North Carolina Chapel Hill Eshelman School of Pharmacy. His experience over the years has focused on developing novel adjuvants and vaccine delivery systems for prophylactic vaccination along with rational design of new vaccine formulations for Novartis discovery projects. Manmohan has been involved with many aspects of vaccine discovery and development in several bacterial and viral projects over the years within Novartis. Manmohan and his team have pioneered several novel vaccine formulation approaches based on nanoemulsions and microparticles. He is the author of over 128 original research publications, editor of four book on vaccine research and development and is an inventor on 47 issued patents. He was elected as a Fellow of the American Association of Pharmaceutical Scientists (AAPS) in 2011.

**Mehfuz Zaman**, NHMRC Early career research fellow, Institute for Glycomics, Griffith University, Southport, QLD, Australia

Mehfuz Zaman completed his Ph.D. in 2012 under the supervision of Prof. Istvan Toth. His thesis topic was the development of self adjuvanting vaccine delivery systems. His interest in vaccine development continued into his first postdoc at the University of Queensland. He joined the Institute for Glycomics at Griffith University in 2014 on an NHMRC Early career fellowship, under the supervision of Prof. Michael Good to develop vaccine candidates against *Streptococcus pyogenes* and Malaria.

Major research interests include mucosal drug delivery, sub-unit vaccines, adjuvants, lipids and peptides. His research aim is to rationally design and develop vaccines by understanding the mechanisms by which pathogens induce immune response and correlates of protective immunity.

**Yvonne Perrie**, Aston University, Birmingham, UK

Professor Yvonne Perrie is Head of Pharmacy and Chair in Drug Delivery within Aston University. She has a BSc (First-Class Hons) in Pharmacy from Strathclyde University, and a PhD from the University of London under the supervision of Prof Gregoriadis. Yvonne's research is multi-disciplinary and focused on the development of drug carrier systems for the delivery of drugs and vaccines. Yvonne is a Director-at-large for the Controlled Release Society. She is Editor-in-Chief of the Journal of Liposome Research and Pharmaceutics and Associate Editor for the Journal of Drug Targeting and the Journal of Pharmacy and Pharmacology.

**Qibo Zhang**, MD, PhD, Senior Lecturer in Immunology, University of Liverpool, UK

Qibo is Senior Lecturer in Immunology with a research interest in vaccine immunology, particularly in mucosal immunity to respiratory pathogens. He works in Institute of Infection and Global Health, University of Liverpool. His group focuses on research on immune regulation of human immunity to upper respiratory infections including bacteria and viruses, and on vaccines against respiratory pathogens. He has also a particular interest in studying modern vaccine adjuvants in humans, including their mechanisms of action and evaluation.

**Tarek Fahmy**, Yale University, New Haven, USA

**Nina Sanina**, graduated Voronezh State University in 1975 (specialty Biophysics). She works at Far Eastern Federal University since 1978. In 1989, she defended PhD Thesis 'Thermotropic behavior of the major membrane lipids of marine invertebrates' (specialty Biochemistry). Since this year, she worked as a Senior Lecturer and then as Associate Professor. In 2006, she defended Dr. Sci Thesis 'Membrane-forming lipids: physicochemical fundamentals of thermal adaptation of marine invertebrates and macrophytes' and became Professor. Her main lecture courses are 'Liquid crystals in biological systems', 'Immunology', 'Biochemistry', 'Biomembranes', 'Nanobiotechnology'. She is the author of more than 150 publications and 5 patents.

**Lawrence Frenkel** is an academic pediatrician, infectious disease specialist, and immunologist, who have devoted himself to teaching, research, clinical care and advocacy for over four decades. He received his MD from Georgetown U, did his residency at the New York Hospital-Cornell, served in the US Public

Health Service, assigned to the Clinical Center of the NIH, and did a fellowship at Georgetown in Immunology and Infectious Diseases. He has published or presented over 150 papers (in over 50 countries) fostering his long term interest in international travel and health. Dr. Frenkel has been an editor and reviewer for a score of renowned, peer reviewed publications. He has been an advisor and grant reviewer for the March of Dimes, the World Health Organization, the Pan American Health Organization, the Gates Foundation, the CDC and the NIH, as well as the state health departments of New Jersey and Illinois. He is currently a member of the NJ State Department of Health Immunization Registry Steering Committee and serving his second term as Co-Chair of the New Jersey Immunization Network.

## Day 2

**Yuan Min Wang**, is currently working at the Centre for Kidney Research as a Senior Scientist and a Senior Lecturer in the University of Sydney, Australia. Dr Wang worked as a Gastroenterologist in China since 1987, obtained her Master's Degree in the National University of Singapore in 1997. She completed a PhD at University of Sydney in 2002. For the last ten years, Yuan Min has led a program of research in DNA vaccination, regulatory T cells in renal disease. Her high quality research work has been demonstrated by leading journal publications in nephrology and in national and international conference presentation.

**Peter Burkhard**, PhD, Department of Molecular and Cell Biology, The Institute of Materials Science, University of Connecticut, CT, USA

Professor Burkhard is researcher at the University of Connecticut in the field of Nano-Biotechnology. He is also co-founder and CEO of Alpha-O Peptides, a company dedicated to the development of nanoparticle vaccines. As a structural biologist he invented the protein nanoparticles as a platform for vaccine design.

**Rikke Munkholm Kjærup**, Dept. of Animal Science, Aarhus University, Blichers Allé Tjele, Denmark

Rikke Kjærup obtained her PhD degree in animal science at the Faculty of Science and Technology, Aarhus University in 2013. The title of the PhD dissertation was "The functional effect of mannose-binding lectin on susceptibility to infectious bronchitis in chickens". It included research in the fields of virology, immunology and genetics.

**Paulo H. Verardi**, Ph.D., Associate Professor, University of Connecticut, Storrs, CT, USA

Dr. Paulo Verardi is a faculty member at the University of Connecticut with an interest in vaccine and immuno-therapeutic vector development. He has worked on vaccinia virus (VACV) immuno-modulating genes, the development of a recombinant VACV vaccine for rinderpest, safer and more efficacious vaccine vectors for smallpox and AIDS, vaccines and diagnostics for Rift Valley fever and foot-and-mouth disease, as well as the use of cytokines as attenuating and immuno-enhancing agents. He is particularly interested in the design of safer, yet still effective live viral vectors for vaccines and cancer therapies by incorporating built-in "SMART" molecular safety mechanisms.

**Peter J. Holst**, Department of International Health, Immunology and Microbiology, University of Copenhagen, Copenhagen, Denmark

Peter Holst is an MD, PhD from the University of Copenhagen with an early career track in molecular pharmacology and transgenic tumor models. From 2005 and onwards a focus has been on improving vaccine technology using adenoviral vectors. In 2008 Peter Holst et al., described a dramatic adjuvant effect of the MHC class II associated Invariant chain on the adenovirus induced CD8+ T cell response. The Invariant chain adjuvant has since been the cornerstone in a series of studies targeting chronic viral infections and cancers. Peter Holst founded the Laboratory of Experimental Vaccinology at the University of Copenhagen in 2011.

**Pierluca Piselli**, Istituto Nazionale Malattie infettive Lazzaro Spallanzani, Rome, Italy.

Pierluca Piselli ScD with a MSC in Medical Statistics at University of Rome and Epidemiology at University of Turin, Italy is an Epidemiologist with an early career in the field of cancer immunology and later in the epidemiology of infectious diseases with experiences in National and International centers. From 2000 his research is focused on infectious complications in immunodeficient patients with particular relevance of virus-related oncological diseases.

## Day 3

**Robin Weiss**, Emeritus Professor of Viral Oncology, University College London, UK

Robin Weiss FRS has studied retroviruses for most of his career including the use of retroviral pseudotypes to determine what cell surface receptors they use and how they are neutralized by specific antibodies. He was Director of Research at the Institute of Cancer Research London for 19 years before moving to UCL in 1999. He was President of the Society of General Microbiology 2006-2009.

**Emanuele Montomoli**, Dept. of Molecular and Developmental Medicine, University of Siena, Siena, Italy

**Anne Moore**, School of Pharmacy, Dept. of Pharmacology & Therapeutics, University College Cork, Ireland

**Yasuhiro Takeuchi**, Wohl Virion Centre, Cruciform Building, Gower Street, London, UK

Yasuhiro Takeuchi is Reader of Molecular Virology at Division of Infection and Immunity, University College London. He has been based in London, UK for 23 years initially at Institute of Cancer Research and then UCL. He has been working on human viruses, HIV and HTLV and mammalian gammaretroviruses including porcine endogenous retroviruses. His research on retrovirus biology has concerned several aspects of infection and evolution with an emphasis on envelope-receptor interaction. The applied side of the research has been focused on the use of retroviruses as vectors for gene therapy and zoonotic infection in xenotransplantation.

**Giada Mattiuzzo**, The National Institute for Biological Standards and Control, The Medicines and Healthcare Products Regulatory Agency, Blanche Lane, South Mimms, Potters Bar, U.K.

Dr Giada Mattiuzzo graduated from the University of Padua, Italy and worked in the Department of Microbiology on gene therapy for HIV infection; she visited Dr Wayne Marasco's lab at Harvard Medical School screening phage display libraries for identification of antibodies against HIV-1. She obtained her PhD in Molecular Virology at University College London in Dr Takeuchi's lab, looking at virus-host interactions of porcine endogenous retrovirus. She's working at the National Institute for Biological Standards and Control on the production WHO International Standards and antibody for human papilloma virus and development of new assays for the control of viral vaccines.

**Takis Athanopoulou**, Ph.D, Lecturer in Molecular Biotechnology, Faculty of Science and Engineering, University of Wolverhampton, City Campus South, Wulfruna St., Wolverhampton, WV1 1LY, UK

**Edward Wright**, Veterinary Laboratories Agency (Civil Service), Rabies and Wildlife Zoonoses Group, Surrey, UK

After completing his BSc in Virology at the University of Edinburgh, Edward successfully studied for a PhD in Molecular Virology from the University of Cambridge. He subsequently obtained a position at the Medical Research Council/Uganda Virus Research Institute Research Unit on AIDS. This was followed by a period as Research Fellow at University College London where he furthered the understanding of highly pathogenic viruses such as rabies/lyssaviruses and HIV, primarily using pseudotypes as the tools for these studies. As a Senior Lecturer in Medical Microbiology at the University of Westminster, Edward's research continues into the pathogenicity and antigenicity of viral zoonoses.

**Stuart Mather**, Medway School of Pharmacy, Viral Pseudotype Unit, University of Kent, UK

Stuart completed his BSc in Biochemistry and Biology from Keele University in 2012, before commencing a PhD at the Viral Pseudotype Unit, based in the Medway School of Pharmacy, University of Kent. His PhD studies focus on the generation of Japanese encephalitis virus (JEV) pseudotyped viruses and their subsequent utilisation in serological assays. Stuart has also investigated the viability of lyophilising pseudotypes with a view to their employment in a cost-effective neutralisation assay kit that can be distributed cheaply and used in low-biosafety laboratories.

**Teresa Lambe**, Jenner Institute, Oxford, UK

Dr. Lambe's research interest lies in the development of efficacious influenza vaccines. Previous works, delineating the establishment and maintenance of adaptive immune memory, have been rationally applied to augment vaccine development. The deployment of such a vaccine, which induces cross-protective immune responses, will alleviate the disease burden associated with annual epidemics and occasional pandemics.

## Discussion Sessions

The discussion sessions are an opportunity for informal questions and answers. This is an ideal opportunity to get advice and opinion from experts in this area. This session is not for questions about specific talks, which can be asked after the speakers session, but for discussing either general topics or specific issues.

### **Session breaks**

All breaks and registrations will take place in the exhibition area where there will be lunch and refreshments.

Please try to visit all the exhibition stands during this event. Not only do our sponsors enable Euroscicon to keep the registration fees competitive, but they are also here specifically to talk to you

### **Lunch**

- All the chicken in our lunch buffet is Halal
- We have a number of dishes that are gluten free
- We have a range of vegetarian dishes which are separated from the meat and fish dishes

### **Frequently asked questions about our events**

#### **Is the delegate list available?**

Yes this is available to everyone who attends the event and our sponsors.

It is available in real time. To access the list please just log into your registration details or use the QR code on right of the agenda card which is provided on the day of the event.

You will not be included in this list if you have opted out and you can do this by logging into your registration details. This list will not be sold or ever give out to third parties.

#### **Can I have the speakers slides?**

We cannot give out the slides from our speaker's presentations as they are deleted immediately after each event. If you require a particular set of slides please approach the speaker. We will however have a meeting report and you will be emailed when this report is published.

#### **How can I keep up to date with Euroscicon Events?**

To keep updated on our events and other Life Science News, please sign up for our newsletter at [www.eurosciconnews.com](http://www.eurosciconnews.com)

#### **I don't want my photograph on any Euroscicon promotional material**

Please let our tech person know

#### **Is there WIFI?**

Yes, please ask registration for log in details

#### **Can I have a CPD certificate?**

CPD certificates will be available in the exhibition hall after lunch

Please remember that EuroSciCon is a small independent company with no subsidies from society memberships or academic rates for venues. We try to be as reasonably priced as possible and our delegate rates are substantially lower than comparable commercial meeting organisations