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Day 1  September 24, 2014
Registrations  Auditorium 3A

Opening Ceremony

Keynote Forum

Introduction

Ray Spier  
University of Surrey, UK

Michael G Hanna  
Vaccinogen, Inc., USA

Nikolai Petrovsky  
Flinders Medical Centre Research, Australia

Vaccine adjuvants

Session Chair: Nikolai Petrovsky, Flinders Medical Centre Research, Australia

Title: Inter-bilayer cross-linked multi-lamellar vesicles (ICMVs) for efficient co-delivery of antigen and adjuvant payloads  
Alan R Shaw, Vedantra Pharmaceuticals, USA

Title: Adjuvant-guidance of T cell responses  
Magdalena Tary-Lehmann, Cellular Technology Limited, USA

Title: Antibody targeting of human T cell CD27 identifies genes and pathways related to inflammation  
Venky Ramakrishna, Cellix Therapeutics, USA

Title: Evaluation of ZOSTAVAX® via the intradermal route using the MicronJet™  
Brian K. Meyer, Merck & Co., USA

Title: Universal influenza vaccines: Prevention of infection against matched and mismatched strains  
Harry Kleanthous, Sanofi-Pasteur, Inc., USA

Title: DNA vaccines which encode natural adjuvants are more effective than canonical DNA vaccines  
Eric James Gowans, The University of Adelaide, South Australia

Lunch Break

Title: Immune memory resilience, a new way of evaluating adjuvants  
Jean-Pierre Y Scheerlinck, The University of Melbourne, Australia

Title: Novel lipid based adjuvants and delivery systems for induction of CD8 T cell immunity  
Lakshmi Krishnan, National Research Council-Human Health Therapeutics, Canada

Title: Establishment of lipid-based immunogens for the development of novel subunit vaccines  
Chih-Hsiang Leng, National Health Research Institutes, Taiwan

Title: Highly immunogenic C-terminal binding domain of Clostridium difficile toxin A stimulates dendritic cell maturation  
Pole Choi-Sing Chong, National Health Research Institutes, Taiwan

Coffee Break

Title: The Cronobacter sakazakii ESP2949-1 phage induces dendritic cell maturation via activation of nuclear factor-κB and IL-12p40 in murine bone marrow  
Hyo-Ihl Chang, Korea University, Korea

Title: Nasal administration of antigens using maltodextrin nanoparticles: A mechanistic study  
Didier Betbeder, University of Lille2, France

Title: Stabilized liposomes carrying bee venom new formulation is the breakthrough of pain and anaphylaxis and death in mice under venom immunotherapy  
Maria Helena Bueno da Costa, Scientific Consultant, France

Title: Live vaccine for equine influenza on the base of cold-adapted recombinant strain A/HK Otar/6:2/2010  
Sandybayev Nurlan, Research Institute for Biological Safety Problems, Republic of Kazakhstan

Title: Polio outbreak in the Middle East: Update  
Randa Hamadeh, Ministry of Public Health, Lebanon

Title: Outer membrane vesicle of bacteria: Friend or Foe?  
Seyed Davar Siadat, Pasteur Institute of Iran, Iran

Title: Adjuvant properties of outer-membrane-vesicle in hepatitis B surface based vaccine  
Arfa Moshtari, Shahid Beheshti University of Medical Sciences, Iran

Title: Role of interferon gamma as immune adjuvant in Labeor ohita  
Megha Kadam Bedekar, Central Institute of Fisheries Education, India

Panel Discussion
**Biodefense vaccine**

**Session Chair:** Leonard A Smith, United States Army Medical Research Institute of Infectious Diseases, USA

**Title:** Finding a safe, efficacious and stable vaccine in the ricin protein fold

Leonard A Smith, United States Army Medical Research Institute of Infectious Diseases, USA

**Title:** A Phase I clinical trial of Hantaan virus and Puumala virus M-segment DNA vaccines for hemorrhagic fever with renal syndrome delivered by intramuscular electroporation

Connie S Schmaljohn, United States Army Medical Research Institute of Infectious Diseases, USA

**Title:** MVA-BN® (IMVANEX®/IMVAMUNE®): A non-replicating, new generation smallpox vaccine available for updating smallpox preparedness plans

Nathaly Arndtz-Wiedemann, Bavarian Nordic GmbH, Germany

**Title:** A vaccine pipeline: Using phage display for identification of immunogenic proteins and generation of human antibodies for diagnostics and therapy

Michael Hust, Technische Universität Braunschweig, Germany

**Veterinary vaccines**

**Session Chair:** Jean L Patterson, Texas Biomedical Research Institute, USA

**Title:** Quality and consistency of cell culture media with a highlight on FMDV

Serge Ohreser, Merck Millipore, France

**Title:** Vaccine development at animal biosafety level four: Standards and challenges

Jean L Patterson, Texas Biomedical Research Institute, USA

**Title:** Low dose antigen exposure in extreme early life promotes adaptive immune response in lambs and piglets

Heather L Wilson, University of Saskatchewan, Canada

**Title:** Study immune correlates of vaccine-induced protective immunity against rotavirus infection and diarrhea using B cell deficient neonatal gnotobiotic pigs

Lijuan Yuan, Virginia Polytechnic Institute and State University, USA

**Title:** Targeting aminopeptidase N on enterocytes rapidly induces an IgA response in a pig model

Eric Cox, Ghent University, Belgium

**Title:** Use of ORF-1 product Rep in prevention and diagnosis of porcine circovirus

Silvia Pellicer, World Pathol, Spain

**Panel Discussion**

**Coffee Break @ Auditorium 3 Foyer**

**Title:** In vivo electroporation for improvement of therapeutic DNA vaccine against chronic hepatitis B infection

Lucyna Cova, INSERM, France

**Title:** Mimogen—a new strategy for post-exposure vaccine development

Yuzhang Wu, Third Military Medical University, China

**Title:** Generation of robust immunity following DNA vaccine immunization enhanced by intradermal electroporation

Kate E Broderick, Inovio Pharmaceuticals, USA

**Title:** M2SR, a robust flu vaccine with long-lasting, cross-protective immunity

Pamuk Bilsel, Flugen Inc., USA

**Title:** Therapeutic vaccines for chronic infeci

**Session Chair:** Jeffrey Ulmer, Novartis Vaccines & Diagnostics, USA

**Title:** Therapeutic vaccines for chronic infections

Geert Vanden Bossche

UNIVAC LLC., Belgium

**Jeffrey Ulmer**

Novartis Vaccines & Diagnostics, USA

**Panel Discussion**

**Coffee Break @ Auditorium 3 Foyer**

**Title:** Introduction

Geert Vanden Bossche

UNIVAC LLC., Belgium

Jeffrey Ulmer

Novartis Vaccines & Diagnostics, USA

**Keynote Forum**

**Day 2 September 25, 2014**

Auditorium 3A

**Group Photo**
Title: A Synthetic multi-antigen approach targeting Plasmodium falciparum malaria
Bernadette Ferraro, University of Pennsylvania, USA

Title: Pneumococcal infections and vaccination
Birgitta Henriques-Normark, Karolinska Institute, Sweden

Title: Heat shock protein complex vaccines against mucosal pathogenic bacteria
Phil Sutton, Murdoch Childrens Research Institute, Australia

Title: Upgrading the 100 year-old BCG vaccine
Zakaria Hmama, University of British Columbia, Canada

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Lunch Break @ Multi Purpose Hall 2

Title: Immunization with neuraminidase deficient influenza virus is highly immunogenic and non-pathogenic to wild type and immunocompromised mice
Alexandre M. Vieira Machado - Fiocruz, Rene Rachou Research Center, Brazil

Title: Design and evaluation of a novel OspA-based vaccine for the prevention of Lyme borreliosis
Andreas Meinken, Valneva Austria GmbH, Austria

Title: Therapeutic vaccines for drug-resistant tuberculosis
Tjip van der Werf, University of Groningen, The Netherlands

Title: Vaccination in risk groups with special focus on non-responsiveness to routine vaccines
Ursula Wiedermann, Medical University of Vienna, Austria

Title: Post challenging effects of new formulation of leishmania major antigen in Balb/c mice
Latifynia Afshineh, Tehran University of Medical Sciences, Iran

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Coffee Break @ Auditorium 3 Foyer

Title: Immunological studies on tetanus toxoid
Rakesh Kumar, Serum Institute of India Limited, India

Title: Process development and immunogenicity studies on a serogroup ‘X’ meningococcal polysaccharide conjugate vaccine
Srinivas Reddy, Serum Institute of India Ltd., India

Title: Self-adjuvanting promiscuous peptide of Mycobacterium tuberculosis augments polyfunctional Th17 cells and evokes better memory T cell response than BCG
Javed N Agrewala, CSIR - Institute of Microbial Technology, India

Title: Immunogenicity and therapeutic effects of Ag85A/B chimeric DNA vaccine in mice infected with Mycobacterium tuberculosis
Xueqiong Wu, the 309th Hospital of Chinese PLA, China

Title: Speciation of chromium in medicinal plants from selected farms in the vicinity of ferrochrome
Isiaka Alade Owolabi, Tshwane University of Technology, South Africa

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Panel Discussion

Special Session for Students: Nikolai Petrovsky @ Community Hall 1-2
Scientific writing, Journal review, Grant writing, Strategies for building a scientific career and Scientific careers outside of research

Breakout @ Committee Room 6-7

Cancer vaccines

Session Chair: Michael G Hanna, Vaccinogen, Inc., USA

Title: From viruses to tumor associated antigen cancer vaccines
Giulio Tarro, Temple University Center for Biotechnology, USA

Title: Measles Virus vaccine infects tumor cells and induces dendritic cells (DC) maturation and tumor antigen cross-presentation
Marc GREGOIRE, Institut de Recherche en Sante Universite de Nantes, INSERM, France

Title: Personalized therapeutic cancer vaccine development to treat metastatic diseases
Periasamy Selvaraj, Emory University, USA

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Coffee Break @ Auditorium 3 Foyer

Title: Teaching self-destructing Salmonella new tricks to fight cancer
Wei Kong, Arizona State University, USA

Title: DC targeting skin vaccines for improved cancer immunotherapy
Yvette van Kooyk, VU University Medical Center, The Netherlands

Title: Acceptability of human papillomavirus vaccine: A survey among master of business administration students in KwaZulu-Natal, South Africa
M E Hoque, University of KwaZulu-Natal, South Africa

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Panel Discussion

AIDS/HIV vaccine

Title: Antigenicity, structure and immunogenicity of the HIV-1 trimeric envelope glycoprotein spike
Richard T Wyatt, The Scripps Research Institute La Jolla, USA

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Lunch Break @ Multi Purpose Hall 2

Title: Application of neutralization fingerprints in delineating antibody recognition in HIV-1 sera and antibody epitope prediction
Gwo-Yu Chuang, National Institutes of Health, USA

Title: The balance of cellular and humoral immunity determines the level of protection offered by an HIV vaccine in macaque models of HIV infection
Timothy Fouts, Profectus BioSciences, Inc., USA

Title: VAC-3S vaccine, a novel approach to the therapeutic management of HIV Infection. Overview of phase I and phase II clinical vaccine development programs
Raphael Ho Tsong Fang, InnaVirVax, France

Title: Characterization of a potent and broad neutralizing antibody that specifically recognizes a point-substitution in the 3S motif of the HIV-1 gp41 protein
Patrice DEBRE, INSERM, France
Title: Glycosylation of envelope gp120 is affected by producer cell type and impacts HIV-1 recognition by virus-specific antibodies and cell infection
Milan Raska, Palacky University, Czech Republic

Coffee Break @ Auditorium 3 Foyer

Title: DNA vaccination against drug resistance in chronic viral infections, example of HIV-1
Maria ISAGULIANTS, Karolinska Institutet, Sweden; Riga Stradins University, Latvia
Title: Evaluation of immune response in small animal models by in vivo imaging
Stefan Petkov, Karolinska Institutet, Sweden
Title: Human clinical trial of SAV001 prophylactic HIV vaccine and a new strategy for the development of therapeutic HIV vaccine
Chil-Yong Kang, The University of Western Ontario, Canada

Panel Discussion

Vaccine antigen modeling
Title: Optimizing the delivery of novel immune potentiators within vaccine drug products
Mannohman Singh, Novartis Vaccines, USA
Title: Natural killer cell subsets display helper and suppressor effects in modulating host viral responses in vivo
William J Murphy, UC Davis School of Medicine, USA
Title: Strategies of antigen retargeting for improvement of DNA vaccine performance
Elizaveta Starodubova, Karolinska Institutet, Sweden
Title: Cellular vaccines in Listeriiosis: Role of the listeria antigen GAPDH
Carmen Alvarez-Dominguez, Instituto de Formacion e Investigacion Marques de Valdecilla, Spain
Title: Regulation of STING expression via the RIG-I dependent RNA sensing pathway
Rongtuan Lin, McGill University, Canada
Title: Cell engineering and antibiotic-free selection for vaccinal antigens production in E. coli: The ultimate sophistication to combine safety and productivity
Regis Sodoyer, Sanofi Pasteur, France
Title: Leishmania recombinant antigen modulates the macrophage effector functions synergizing anti-leishmanial effects of miltefosine to facilitate early clearance of intracellular parasites
Sunil K Arora, PGIMER, India

Day 3 September 26, 2014
Auditorium 3A

Immu-informatics in vaccine design
Session Chair: Malcolm E Thomas, Arbovax., Inc., USA
Title: Immunization and human rights
Obradovic Zarema, University of Sarajevo, Bosnia and Herzegovina
Title: SlgN'S clinical immunomonitoring platform for the assessment of immune responses in cohort studies and clinical trials
Brian Abel, Singapore Immunology Network, Singapore
Title: Potent cellular and humoral immunogenicity of a pre-erythrocytic viral vectored malaria vaccine in African infants and children
Katie Ewer, University of Oxford, UK
Title: The common computer-based influenza vaccination/epidemics surveillance system: Challenges and opportunities for primary health care in EU countries
Ljiljana Majnaric Trtrica, JJ Strossmayer University, Croatia
Title: The development of tuberculosis subunit vaccine EAMMH and regulation of vaccine induced immune memory by Rapanycin
Bingdong Zhu, Lanzhou University, China
Title: Immunization programme in Indonesia: Overview- (Focusing on Streptococcus Pneumonia whole-cell vaccine)
Julitasari Sundoro, Indonesian Technical Advisory Group on Immunization, Indonesia

Panel Discussion

Vaccine formulation issues
Title: Unique nanofabrication of antigens and adjuvants that effectively induces protective antibody and T cell responses
Frank J Malinoski, Liquidia Technologies Inc., USA
Title: Development of a carbohydrate-based vaccine against meningococcal serogroup X infection
Francesco Berti, Novartis Vaccines, Italy
Title: Effect of the inclusion of “contemporary” B. pertussis strains in the vaccine composition on temporal trends in B. pertussis population
Tatjana Pljesa, Institute of Virology, Vaccines and Sera Torlak, Serbia
Title: Specificities of health economics in the area of vaccines evaluation
Maarten J Postma, University of Groningen, The Netherlands
Title: The effect of new leishmania vaccine against Th1, Th2 as well as increasing of spleen white pulp size in Bulb/c mice after repeated exposure
Latifinya Afshein, Tehran University of Medical Sciences, Iran

Unconventional vaccines
Title: A novel approach to the development of arboviral vaccines for dengue and chikungunya virus
Malcolm E Thomas, Arbovax., Inc., USA
Title: Strategies toward developing a universal ExPEC vaccine capable of broad protection
Melha Melliata, Arizona State University, USA

Lunch Break
Title: The vaxonella platform for oral recombinant vaccine delivery  
Rocky M Cranenburgh, Prokarium Ltd., UK  
Title: Oral vaccine platform elicits neutralizing antibody responses to influenza  
Sean Tucker, Vaxart, Inc., USA  
Title: A rationally designed form of the TLR5 agonist, flagellin, supports superior immunogenicity of influenza B globular head vaccines  
Langzhou Song, VaxInnate Corporation, USA

Coffee Break @ Auditorium 3 Foyer

Title: Responsibility: A “first person ethics” for vaccination  
Fermin J Gonzalez-Melado, Pontifical Institute “John Paul II” for Studies on Marriage and Family, Spain  
Title: Development of a truly improved whooping cough vaccine  
Marcel Thalen, Iliad Biotechnologies, Scotland  
Title: Translational development and preclinical efficacy of a multiantigen T cell epitope-enriched DNA vaccine against Leishmaniasis  
Christian Juhls, MOLOGEN AG, Germany  
Title: Oral infections in Guinea Conakry  
Sylvain Haba, Centre Des Soins Medico-Tradi-Spirituels Talithakoumi, Guinea Conakry

Panel Discussion

VAC-001 Title: Using NYVAC vectors as vaccine candidates for Leishmaniasis  
Ernesto Mejias Perez, Centro Nacional de Biotecnologia, Spain  
VAC-002 Title: Enhancement of antigen-specific CD4 T cell response through spacer modification in vaccinia virus promoters  
Mauro Di Pilato, Centro Nacional de Biotecnologia, Spain  
VAC-003 Title: IL-34 suppresses Candida albicans induced TNF-a production by M1 macrophages through down-regulation of Dectin-1 and TLR2 expression  
Rong Xu, Cardiff University, UK  
VAC-004 Title: Protection of chickens against Chlamydia psittaci challenge by mucosal immunization with the major outer membrane protein  
Daisy Vanrompay, Ghent University, Belgium  
VAC-005 Title: The single intradermal cervical comparative test and Johne's disease ELISA diagnostics  
Aideen Kennedy, Animal & Grassland Research and Innovation Centre, Ireland  
VAC-006 Title: Antigen on nanoparticles enhances anti-tumor immune responses as well as humoral antibody responses in vivo  
Junichiro Mizuguchi, Tokyo Medical University, Japan  
VAC-007 Title: Hepatitis B immunization status of a miscellaneous population of workers  
Frederic DESCHAMPS, University Hospital of Reims, France  
VAC-008 Title: Retinoic acid promotes long lasting mucosal and systemic immune responses after mucosal priming and systemic boosting in mice  
Silvia Vendetti, Istituto Superiore di Sanita, Italy  
VAC-009 Title: Experimental chagas disease: Vaccination with Trypanosoma rangeli modulate the innate immune response in mice challenged with Trypanosoma cruzi  
Beatriz Basso, National University of Cordoba, Argentina  
VAC-010 Title: Effect of preventive and therapeutic vaccination schedules with Trypanosoma rangeli against Trypanosoma cruzi infection in a mouse model of Chagas’ disease  
Beatriz Basso, National University of Cordoba, Argentina  
VAC-011 Title: Generation of genetically inactivated Salmonella Gallinarum ghost and evaluation of its potential as an effective inactivated vaccine candidate against fowl typhoid  
Chetan V Jawale, Chonbuk National University, Korea
Title: Construction of tightly regulated E-lysis cassette for production of genetically inactivated Salmonella Enteritidisghost
Chetan V. Jawale, Chonbuk National University, Korea

Title: Increasing of alive plague vaccine efficiency
Ponomaryova Tatyana, Kazakh Scientific Center of Quarantine and Zoonotic Diseases, Kazakhstan

Title: Double-blind randomized placebo-controlled trial to evaluate cell-mediated immunity and safety of the herpes zoster vaccine in elderly patients with diabetes
Atsuko Hata, The Tazuke Kofukai Medical Research Institute, Japan

Title: Analysis of phage displayed antibody fragment - pros and cons of Phage ELISA and RISE methods
Barbara Kalenik, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Poland

Title: HIV-1 Nef protein carries multiple epitopes suitable for induction of cellular immunity for an HIV vaccine in Africa
Athina KILPELAINEN, Karolinska Institutet, Sweden

Title: Retargeting of HIV reverse transcriptase to MHC class II processing improves its immunogenicity
Anastasia Latanova, Karolinska Institutet, Sweden

Title: Lipopolysaccharide of Coxiella burnetii. A promising candidate molecule in a search for a new Q fever vaccine
Rudolf Toman, Slovak Academy of Sciences, Slovak Republic

Title: Long-term immune response to Hepatitis B Virus (HBV) vaccine among type 1 diabetic students: Do they need a booster?
Engy M. El-Ghitany, Alexandria University, Egypt

Title: Bivalent candidate vaccine against HCV and HIV-1: Construction and biological evaluation
Mohammad Reza Aghasadeghi, Pasteur Institute of Iran, Iran

Title: An early report on a local project about primary health care to improve the communication and the compliance in the elderly for vaccinal campaigns against influenza
Filippo de Nicollelis, Primary Health Care, Italy

Title: Cyclic GMP-AMP has mucosal adjuvant activity in mice
Christina Rueckert, Helmholtz Center for Infection Research, Germany

Title: Local and systemic antibody and cell-mediated immune response after vaccination and infection with porcine respiratory and reproduction system (PRRS) virus
Miroslav Toman, Veterinary Research Institute, Czech Republic

Title: Using monoclonal antibodies to understand the molecular basis for the cross bactericidal activity of NHBA antigen
Claudia Facciotti, Novartis, Italy

Title: Expression profile of cytokine transcripts and Cell mediated immune response in peripheral blood mononuclear cells of sheep following vaccination of pentavalent bluetongue vaccine
Molalegne Bitew, Jimma University, Ethiopia

Title: In vitro molecular analysis of ribosomal initiation complexes assembly and RNA-protein interactions during the initiation of translation of a prototype Coxackievirus B3 and a live-attenuated Sabin 3-like RNAs
Amira SOUI, Universite de Tunis El Manar, Tunisie