

# BIOMARKERS OF VACCINE/ADJUVANT POTENCY & SAFETY

6-8 April 2016, Crowne Plaza Porto, Porto, Portugal

## SECOND CIRCULAR AND PROVISIONAL CONFERENCE PROGRAMME FOR BVAPS 2016

Vaccines have saved millions of lives in both the developing and developed world, and as such the development of safe, efficacious and affordable vaccines to counter poverty related and emerging infectious diseases, cancers and other non-communicable diseases for which no vaccines are currently available has become a top priority for the public, regulators and pharmaceutical companies alike. This new international conference will offer a forum for an update on recent developments and future challenges relating to **'Biomarkers of Vaccine/Adjuvant Potency and Safety' – BVAPS 2016**.

The inaugural BVAPS 2016 meeting will draw on the latest life science research findings to profile how individuals respond to the different components of vaccines at the cellular, genetic and molecular level. Identification and characterization of new biomarkers useful to predict immunogenicity, efficacy and reactogenicity of vaccines given systemically or mucosally will be a main focus of the conference along with discussions on new ways to identify and classify these biomarkers. The impact of genetic background and age on the vaccine efficacy and safety will also be covered by the meeting. It is envisaged that identification of novel ways to better understand the mechanisms of actions of vaccines and adjuvants at all stages of development will enable the acceleration of the development and introduction of a new generation of safer and more effective vaccines. Recent development in cutting-edge technologies such as omics and systems vaccinology alongside state-of-the-art immunological methods that enable in-depth analysis of vaccine immunogenicity, efficacy and safety will also be a focus of the BVAPS 2016 meeting.

## ADVISORY SCIENTIFIC PANEL

Co-Chairs: Ali Harandi (*University of Gothenburg, Gothenburg, Sweden*)  
and Nathalie Garcon (*BIOASTER, Lyon, France*)

Steven Reed (*IDRI, Seattle, Washington, USA*)

Bali Pulendran (*Emory University, Atlanta, Georgia, USA*)

Peter Andersen (*Statens Serum Institut, Copenhagen, Denmark*)

Arnaud Didierlaurent (*GlaxoSmithKline Vaccines, Rixensart, Belgium*)

Ken J. Ishii (*NIBIOHN, University of Osaka, Osaka, Japan*)

Donata Medaglini (*University of Siena, Siena, Italy*)

Ingeleif Jonsdottir (*University of Iceland, Reykjavik, Iceland*)

Quentin Sattentau (*University of Oxford, Oxford, UK*)

Behazine Combadiere (*Universite Pierre and Marie Curie/INSERM, Paris France*)

Tom H.M. Ottenhoff (*LUMC, University of Leiden, Leiden, The Netherlands*)

Ole Olesen (*European & Developing Countries Clinical Trial Partnership, The Hague, The Netherlands*)

Daniel Zak (*The Center for Infectious Disease Research, Seattle, Washington, USA*)

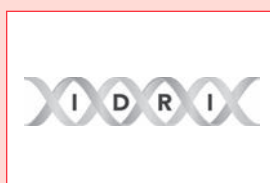
Stefan H.E. Kaufmann (*MPIIB, Berlin, Germany*)

## CONFERENCE SCOPE & MAIN TOPICS

The main topics covered by the BVAPS 2016 meeting are:

**Immunological correlates of protection in vaccine research**  
**Technological advancement in evaluation of the vaccine-induced immunity**  
**Systems vaccinology**  
**Omics analysis of diseases and vaccines**  
**Molecular signatures of vaccine immunogenicity and safety**  
**Biomarkers of vaccine efficacy**  
**Biomarkers of mucosal and skin immunity**  
**Human genetics and vaccines**  
**Vaccines and adjuvants mechanisms of action**  
**DAMP/PAMP and particle adjuvants mechanism**  
**Recent and future directions in vaccine research**

The BVAPS 2016 meeting will comprise keynote presentations, special sessions, and in addition the BVAPS 2016 Scientific Advisory Panel are calling for oral and poster abstract submissions to be considered for inclusion in the BVAPS 2016 meeting schedule.



Arrival Registration & Coffee

## SESSION 1: OPENING PLENARY SESSION

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Moderator: Nathalie Garcon  
(BIOASTER, Lyon, France)

### **'BVAPS 2016 Introduction & Overview'**

Ali Harandi  
(University of Gothenburg, Gothenburg, Sweden)

### **'Questing for early markers of safety: The Biovacsafe Approach'**

Giuseppe Del Giudice  
(GlaxoSmithKline, Siena, Italy)

### **'The VSV-EBOVAC project: From phase I clinical trials to deep immune monitoring and search for biomarkers of safety and efficacy'**

Claire-Anne Siegrist  
(University of Geneva, Geneva, Switzerland)

### **'Title to be confirmed'**

Angela Wittelsberger  
(Innovative Medicines Initiative, European Commission, Brussels, Belgium)

Lunch Break

## SESSION 2: PLENARY SESSION

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Moderator: Ali Harandi  
(University of Gothenburg, Gothenburg, Sweden)

### **'Ink spots and signatures of vaccine induced responses'**

Ali Harandi  
(University of Gothenburg, Gothenburg, Sweden)

### **'Title to be confirmed'**

Karen Makar  
(Bill & Melinda Gates Foundation, Seattle, Washington, USA)

### **'Title to be confirmed'**

Ingeleif Jonsdottir  
(University of Iceland, Reykjavik, Iceland)

Tea Break

## SESSION 3: PLENARY SESSION

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Moderator: Giuseppe Del Giudice  
(GlaxoSmithKline, Siena, Italy)

### **'Biomarkers as essential tools in clinical trials'**

Ole Olesen  
(EDTCP, The Hague, The Netherlands)

### **'Diagnostic and prognostic biomarkers to accelerate vaccine trials: The case of tuberculosis'**

Stefan Kaufmann  
(Max Planck Institut for Infection Biologie, Berlin, Germany)

### **'Role of inflammation in response to adjuvanted vaccines'**

Arnaud Didierlaurent  
(GlaxoSmithKline SA, Rixensart, Belgium)

**BVAPS 2016 Welcome Drinks Reception**

## SESSION 4: VACCINES

Moderator: Arnaud Didierlaurent

*(GlaxoSmithKline Vaccines, Rixensart, Belgium)*

**'Biomarkers in vaccines: From discovery to application.**

**What does it take?'**

Nathalie Garcon

*(BIOASTER, Lyon, France)*

**'Biomarkers of vaccine safety with respect to autoimmunity'**

Willem van Eden

*(University of Utrecht, Utrecht, The Netherlands)*

**'Title to be confirmed'**

Bali Pulendran

*(Emory University, Atlanta, Georgia, USA)*

Coffee Break

## SESSION 5: VACCINE ADJUVANTS I

Moderator: Behazine Combadiere

*(Universite Pierre and Marie Curie/INSERM, Paris France)*

**'Biomarkers for On- and Off-target effects of vaccine adjuvant'**

Ken J. Ishii

*(NIBIOHN, University of Osaka, Osaka, Japan)*

**'Adjuvant studies in a prime-boost perspective'**

Donata Medaglini

*(University of Siena, Siena, Italy)*

**'Exploring mechanisms of non-PAMP adjuvants'**

Quentin Sattentau

*(University of Oxford, Oxford, UK)*

Lunch Break

## SESSION 6: GENERAL SESSION

Moderator: TBC

**'Cutaneous vaccine immunization models'**

Behazine Combadiere

*(Universite Pierre and Marie Curie/INSERM, Paris France)*

**'Adjuvant determines influx-profile, micro milieu and *in vivo*-antigen-loading of antigen presenting cells (APC) at injection site'**

Susan van Aalst, Irene Ludwig, Ruurd van der Zee, Willem van Eden

and Femke Broere

*(Utrecht University, Utrecht, The Netherlands)*

**'Corn-derived alpha-D-glucan nanoparticles are safe and effective vaccine adjuvants'**

Harm HogenEsch

*(Purdue University, West Lafayette, Indiana, USA)*

Tea Break

## SESSION 7: GENERAL SESSION

Moderator: Quentin Sattentau

*(University of Oxford, Oxford, UK)*

**'New developments in biomarkers in tuberculosis'**

Tom H.M. Ottenhoff

*(LUMC, University of Leiden, Leiden, The Netherlands)*

**'Approach and challenges for bridging NHP challenge data to human vaccine immune responses for Ebola vaccine development'**

Jenny Hendriks

*(Janssen Infectious Diseases and Vaccines, Leiden, The Netherlands)*

**'A human DC-based system to evaluate responses towards vaccines'**

Gabriela Tapia and Anke Huckriede

*(University Medical Center Groningen, Groningen, The Netherlands)*

**'Profiling the proteome of immune cells using robust next-generation mass spectrometry technologies'**

Etienne Caron and Ruedi Aebersold

*(Institute of Molecular Systems Biology, ETH Zurich, Zurich, Switzerland)*

**'Virus-neutralizing/virus-inhibiting antibodies as markers of mumps vaccine potency: The importance of optimization of *in vivo* preclinical assay'**

B. Halassy<sup>1,2</sup>, T. Kurtovic<sup>1,2</sup>, M. Brgles<sup>1,2</sup>, M. Lang Balija<sup>3</sup> and D. Forcic<sup>1,2</sup>

*(1 University of Zagreb, Zagreb, Croatia; 2 Center of Excellence for Viral Immunology and Vaccines, CERVirVac, Croatia; 3 Institute of Immunology Inc, Quality Control Department, Rockefellerova 2, HR-10000 Zagreb, Croatia)*

## SESSION 8: VACCINE ADJUVANTS II

Moderator: Ken J. Ishii

(NIBIOHN, University of Osaka, Osaka, Japan)

### 'Mechanisms of TFH, TH1 and B cell responses to adjuvanted vaccination'

Mark T. Orr<sup>1,2</sup>, Anthony L. Desbien<sup>1</sup>, Natasha D. Cauwelaert<sup>1</sup>,  
Malcolm S. Duthie<sup>1,2</sup> and Steven G Reed<sup>1,2</sup>

(1 Infectious Disease Research Institute, Seattle, Washington, USA; 2 University of Washington, Seattle, Washington, USA)

### 'Adjuvant modulation of the primary CD4+ T cell response to chimeric mycobacterial antigen H56'

Annalisa Ciabattini, Dennis Christensen, Peter Andersen, Gianni Pozzi  
and Donat Medaglini

(University of Siena, Siena, Italy)

### 'Efficacy and safety profile of an alpha-D-glucan nanoparticle-based vaccine adjuvant'

Fangjia Lu, Yuan Yao and Harm HogenEsch

(Purdue University, West Lafayette, Indiana, USA)

Coffee Break

## SESSION 9: IMMUNE RESPONSES I

Moderator: Donata Medaglini

(University of Siena, Siena, Italy)

### 'Integrating innate and adaptive immune responses to vaccines'

Daniel Zak

(The Center for Infectious Diseases Research, Seattle, Washington, USA)

### 'Characterization of the transient innate immune response induced by an AS01B-adjuvanted vaccine in humans'

Kinga K. Smolen<sup>1</sup>, Caroline Hervé<sup>2</sup>, Margreet Brouwer<sup>1</sup>, Martin Taton<sup>1</sup>,  
Philippe Auquier<sup>2</sup>, Laurence Fissette<sup>2</sup>, Arnaud Marchant<sup>1</sup>, Pascale Van Belle<sup>2</sup>,  
Wivine Burny<sup>2</sup>, Fabienne Willems<sup>1</sup> and Arnaud Didierlaurent<sup>1,2</sup>

(1 Institute for Medical Immunology, Gosselies, Belgium; 2 GSK, Rixensart, Belgium)

### 'Profiling host cell immune responses induced by alum adjuvants: A systems vaccinology approach'

Sietske Kooijman, Jolanda Brummelman, Fabio Marino, Geert P.M. Mommen,  
Bernard Metz, Gideon F.A. Kersten, Albert J.R. Heck and Hugo D. Meiring

(Intravacc, Bilthoven, The Netherlands)

Lunch Break

## SESSION 10: IMMUNE RESPONSES II & LATEBREAKERS

Moderator: Daniel Zak

(The Center for Infectious Diseases Research, Seattle, Washington, USA)

### 'Formulation of the respiratory syncytial virus fusion protein with a novel combination adjuvant promotes innate immune responses in the upper and lower respiratory tract of BALB/c mice'

Indranil Sarkar, Ravendra Garg and Sylvia van Drunen Littel-van den Hurk  
(VIDO-InterVac, University of Saskatchewan, Saskatoon Canada)

### 'Unraveling the genetic basis of the immune response to pertussis vaccination'

Yung-Yi C. Mosley, Josiah Radder, Annerose Berndt and Harm HogenEsch  
(Purdue University, West Lafayette, Indiana, USA)

### 'Comprehensive characterization of the reactogenicity in healthy, Hepatitis B virus naive adults vaccinated with the Hepatitis B surface antigen in combination with Adjuvant System AS01B or with aluminium hydroxide'

Wivine Burny<sup>1</sup>, Lien Gheyle<sup>2</sup>, Laurence Fissette<sup>1</sup>, Arnaud Marchant<sup>3</sup>,  
Fabienne Willems<sup>3</sup>, Arnaud Didierlaurent<sup>1</sup> and Pascale Van Belle<sup>1</sup>

(1 GSK, Rixensart, Belgium; 2 SGS, Antwerpen, Belgium; 3 Institute for Medical Immunology, Gosselies, Belgium)

### Overview & Closing Remarks

Tea & Departure

\* This provisional programme is correct at the time of printing. However the organizers reserve the right to make any alterations that may be required in the interests and integrity of the final conference programme.

## REGISTRATION

Delegates should register for BVAPS 2016 by completing the form provided on the back page of this brochure. The completed Conference Registration Form plus payment (payment in £ Pounds Sterling) should be sent to the BVAPS 2016 Conference Manager – Caroline Sumner at Meetings Management. The BVAPS 2016 Conference Registration Desk will be open from 7.30am on Wednesday 6th April 2016.

Delegates can also register securely on-line at:

[http://www.meetingsmanagement.com/bvaps\\_2016](http://www.meetingsmanagement.com/bvaps_2016)

## VENUE & ACCOMMODATION

The venue for BVAPS 2016 is the Crowne Plaza Porto in Porto, Portugal.

### CROWNE PLAZA PORTO

Avenida da Boavista, 1466 4100-114 Porto, Portugal

Tel: +351 22 607 2500 Fax: +351 22 600 3214

Email: [candida.baldaia@ihg.com](mailto:candida.baldaia@ihg.com)

Web: [www.crowneplaza.com/porto](http://www.crowneplaza.com/porto)

To book accommodation at the Crowne Plaza Porto please go to the BVAPS 2016 website and click on the Accommodation link to access the hotel booking form:

[http://www.meetingsmanagement.com/bvaps\\_2016](http://www.meetingsmanagement.com/bvaps_2016)

Preferential rates have been agreed for BVAPS 2016 delegates.

## PUBLICATION

A USB memory stick of final programme and abstracts of all presentations, oral and poster, will be distributed to delegates when they register at the conference.

## TABLE TOP EXHIBITION

Table Top Exhibition space is available at the meeting. Exhibitors can showcase their products or services by reserving a table top exhibit. The exhibit area will be located where all refreshments breaks will be taken to ensure maximum traffic of conference delegates. If you are registering for the conference, you can reserve a table for £1000. If you do not wish to attend the conference sessions, you can reserve a table for £2000 (includes admission to all meals/receptions by one company representative).

**PLEASE NOTE: If you wish to have additional representatives on your table top exhibit there will be an additional charge for catering levied per head. Please contact the Conference Manager for this additional price.**

Please make your bookings and payment using the relevant section on the Delegates Registration Form on the back page of this brochure. All general enquiries regarding Table Top Exhibition facilities at BVAPS 2016 should be directed to John Herriot at Meetings Management (E-mail: [jherriot@meetingsmgmt.u-net.com](mailto:jherriot@meetingsmgmt.u-net.com)).

## DELEGATE PACK INSERT SERVICE

Company literature/brochures/conference brochures may be distributed to delegates as part of the documentation issued on arrival/registration. One insertion in the BVAPS 2016 delegate pack is priced at £425. Please make your booking and payment using the relevant section on the Delegates Registration Form on the back page of this brochure. All general enquiries regarding Delegate Pack Insertion services at BVAPS 2016 should be directed to John Herriot at Meetings Management (E-mail: [jherriot@meetingsmgmt.u-net.com](mailto:jherriot@meetingsmgmt.u-net.com)).

**PLEASE NOTE:** Literature for distribution to BVAPS 2016 delegates is subject to approval by the conference organizers.

## INSURANCE & CANCELLATION

The organizers cannot be held responsible for any personal accident or damage to their private property of participants at BVAPS 2016. The organizers strongly urge participants to ensure they have adequate travel and personal insurance cover before they depart for the conference. The organizers cannot be held liable for any costs incurred should the conference be cancelled for any reason. Maximum notice of cancellation will be given by the organizers to all pre-registered delegates.

## PROGRAMME

The BVAPS 2016 Advisory Scientific Panel and the BVAPS 2016 Conference Organizers reserve the right to alter any part of the published conference programme if this is necessitated by any circumstances outside their control. All efforts will be made to keep any such changes to a minimum. The programme published in the brochure was correct at the time of going to press.

## CANNOT ATTEND?

If you and your colleagues are unable to attend the conference, the conference materials (abstract booklet, speaker handouts, late abstracts, attendee list, pack materials and literature) are available for purchase. While not intended as a substitute for actual attendance, these materials would at least provide a documentary record of the event and allow you to keep you or your organization's library up to date. The cost of providing this non-attendee package is £350 (including postage and packing). To order this package from Meetings Management please use the relevant section in the Delegates Registration Form on the back page of this brochure.

## ANY QUESTIONS?

For further information and assistance, please contact: Caroline Sumner BVAPS 2016 Conference Manager:

### BVAPS 2016 Conference Secretariat, Meetings Management

The Old Dairy Tower, Peper Harow Park, Godalming,  
Surrey GU8 6BD, United Kingdom.

Telephone: +44 (0)1483 427770 Fax: +44 (0)1483 428516

E-mail: [csumner@meetingsmgmt.u-net.com](mailto:csumner@meetingsmgmt.u-net.com)

## LATE-BREAKER ORAL AND POSTER ABSTRACTS

The Advisory Scientific Panel have set an extended deadline for Late-Breaker Oral and Poster Abstracts of Friday 4th March 2016. Prospective authors should submit one page Word documents to the Conference Organizers (Meetings Management) for consideration.

Please send submissions for the attention of John Herriot by e-mail to: [jherriot@meetingsmgmt.u-net.com](mailto:jherriot@meetingsmgmt.u-net.com)

**Late-Breaker Oral and Poster Abstracts should be submitted by Friday 4th March 2016.**

Please tick appropriate boxes and write clearly in BLOCK CAPITALS or type.

Surname ..... First Name ..... Title .....  
 Organization ..... Address .....  
 .....  
 ..... Postcode .....  
 Country ..... Telephone ..... Fax .....  
 E-mail (plain type or print): .....  
 If you are an EC business please state your VAT registration number: .....  
 Disabled (please state any special needs): ..... Special diet (please state requirements): .....

### REGISTRATION FEES

Speaker/Delegate Registration Fees: (Please tick appropriate section)	(NOTE THAT FEES ARE IN UK £ STERLING)	DELEGATE REGISTRATION FORMS NOT DULY & FULLY COMPLETED WILL NOT BE VALID Amount Due (£ Sterling)
<input type="checkbox"/> Speaker Registration (submitted oral/poster papers) (Payment must be received before Friday 18th March 2016)	£625.00	£ .....
<input type="checkbox"/> Reduced Early Bird Registration (Payment must be received before Friday 18th March 2016)	£735.00	£ .....
<input type="checkbox"/> Full Registration (Payment received after Friday 18th March 2016)	£850.00	£ .....
<input type="checkbox"/> Student Registration	POA	£ .....
<b>Table Top Exhibits/Delegate Pack Inserts</b>		
<input type="checkbox"/> Table Top Exhibit (I am registered to attend)	£1000.00	£ .....
<input type="checkbox"/> Table Top Exhibit (I am NOT registered to attend)	£2000.00	£ .....
<input type="checkbox"/> Delegate Pack Insert	£425.00	£ .....
<b>For those Unable to Attend</b>		
<input type="checkbox"/> Set(s) of BVAPS 2016 materials	@ £350.00 (per set)	£ .....
<b>Total Amount Payable</b>		£ .....

Registration fees include admission to all conference sessions, morning and afternoon refreshments and lunches on the 6th, 7th and 8th April 2016.

### PAYMENT

☐ I enclose a cheque for £..... made payable to **Meetings Management**. (Delegates registering from outside the UK must ensure that cheques are drawn on a London Bank. Please quote **BVAPS 2016** on the reverse of the cheque.)

☐ I have made a payment by bank transfer (quoting **BVAPS 2016** on the transfer documentation) to Barclays Bank, Barclays Business Centre, Guildford Branch, PO Box 33, Guildford, Surrey GU1 3AN, UK:

UK Pounds Sterling Account: Meetings Management 0040614335,  
 IBAN GB02BARC20353540614335 SWIFTBIC BARCGB22

US Dollar Account: Meetings Management 53209211,  
 IBAN GB77BARC20353553209211 SWIFTBIC BARCGB22

Euro Account: Meetings Management 59179600,  
 IBAN GB02BARC20353559179600 SWIFTBIC BARCGB22

All transfer charges must be paid by the sender. Delegates paying by this method are requested to send the Conference Manager a copy of the bank transfer. **Payments made by bank transfer must have £15.00 added to the total. PLEASE NOTE THAT IT WILL NOT BE POSSIBLE TO PAY REGISTRATION FEES BY BANK TRANSFER AFTER FRIDAY 29TH FEBRUARY 2016. LATE PAYMENT AFTER FRIDAY 29TH FEBRUARY 2016 MUST BE MADE BY CREDIT CARD (VISA/MASTERCARD/AMEX).**

☐ I would like to pay £..... by credit card (VISA/MasterCard/American Express only accepted).

Card no.               3 Digit Security Code (AMEX: 4 Digits) .....

Expiry Date ..... Registered Card Address .....

Please remember that any remittance sent but not received by the time of the conference must be paid again at the Registration desk: we will refund you after the conference. Cancellations received before Friday 29th February 2016 will be refunded in full less an administrative charge of £150 per person. Refunds will not be possible if a cancellation is received after Friday 29th February 2016. Substitutions can be made at any time prior to the conference. Please inform the Conference Manager of any changes. We strongly advise that delegates purchase travel insurance to cover any unforeseen circumstances and protect against loss of hotel deposits and registration fees.

VAT No. 591 617618

Signature ..... Date .....

### PLEASE RETURN THIS FORM TO:

**BVAPS 2016 CONFERENCE SECRETARIAT, MEETINGS MANAGEMENT**  
 The Old Dairy Tower, Peper Harow Park, Godalming, Surrey GU8 6BD, United Kingdom  
 Conference Manager: Caroline Sumner Telephone: +44 (0)1483 427770 Fax: +44 (0)1483 428516 E-mail: csumner@meetingsmgmt.u-net.com