

67<sup>th</sup> OMICS Group Conference

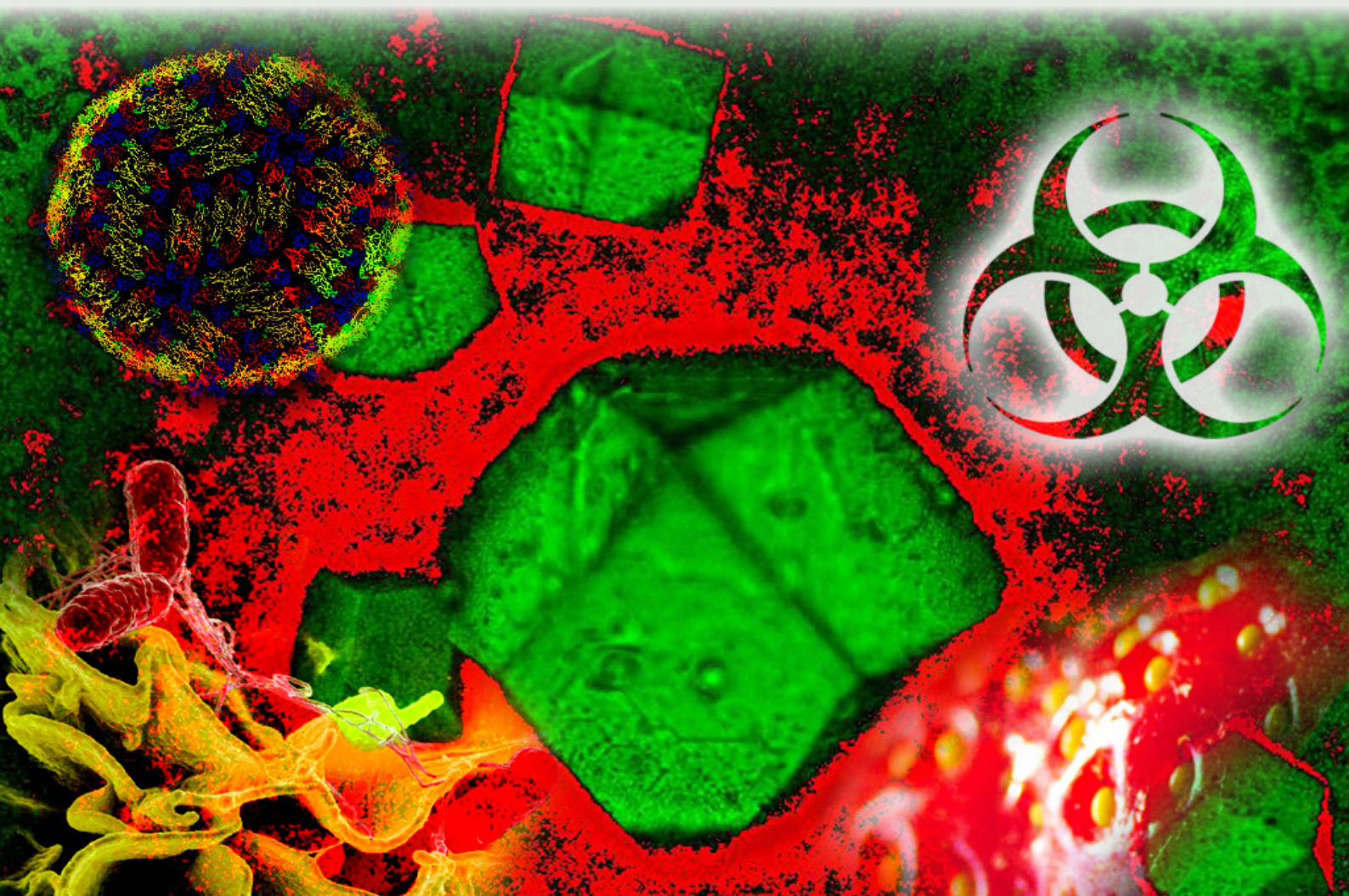
# *Scientific Program*



International Conference on

# **Biothreats & Biodefense**

October 15-17, 2012 DoubleTree by Hilton Chicago-North Shore, USA



## **“Organize your Events at OMICS Group Conferences”**

Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences in related areas under the scheme title of your own. These proposals can be sent to respective conference mail ids or to [symposia@omicsonline.com](mailto:symposia@omicsonline.com)

## **OMICS Group Conferences**

5716 Corsa Ave., Suite 110, Westlake Los Angeles, CA 91362-7354, USA  
Phone: +1-650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499  
Email: [biodefense2012@omicsonline.com](mailto:biodefense2012@omicsonline.com)



09:00-09:25

## Opening Ceremony

### Keynote Forum

09:25-09:30 Introduction

09:30-09:55 **Stef Stienstra**

Royal Dutch Navy, Netherlands

09:55-10:20 **Kei Amemiya**

Army Medical Research Institute of Infectious Diseases, USA

10:20-10:45 **Randall S. Murch**

Virginia Tech University, USA

Coffee Break 10:45-11:00

#### Track 1: Biothreats due to Infectious Diseases

- 11:00-11:20 **Title: The Madagascar hissing cockroach as a novel surrogate host for *Burkholderia pseudomallei*, *B. mallei* and *B. thailandensis***  
**David Deshazer**, Army Medical Research Institute of Infectious Diseases, USA
- 11:20-11:40 **Title: *Listeria monocytogenes*: A zoonotic food borne pathogen**  
**Salina Parveen**, University of Maryland Eastern Shore, USA
- 11:40-12:00 **Title: Progression of primary pneumonic plague in a mouse model**  
**Suppiah Paramalingam Sivalingam**, DSO National Laboratories, Singapore
- 12:00-12:20 **Title: Simulation of the incidence of zoonotic brucellosis in peninsular malaysia via a bioterrorist attack**  
**Pwaveno Bamaiyi**, Universiti Putra, Malaysia
- 12:20-12:40 **Title: Development of nasal spray formulated with antiviral drug against influenza virus**  
**Albert Kabore**, Defense Research and Development, Canada

Lunch Break 12:40-13:25

- 13:25-13:45 **Title: Modeling of dengue fever temporal variations in central Thailand**  
**Siriwan Wongkoon**, Walailak University, Thailand
- 13:45-14:05 **Title: Modeling St-246, vaccination, and the effect of contagiousness in a smallpox outbreak**  
**Ellie Graeden**, Gryphon Scientific, USA

#### Track 2: Components of Biosecurity Measures

#### Track 3: Emergency Medicine and Critical Care Management

- 14:00-14:20 **Title: Potential and limits of mobile health (mHealth)**  
**Syed A. Hashsham**, Michigan State University, USA
- 14:20-14:40 **Title: Mitigating the insider threat through a culture of responsibility and security**  
**Laura A. Kwinn**, Department of Health and Human Services, USA
- 14:40-15:00 **Title: Agroterrorism: Means, mechanisms, results and readiness**  
**Michael Whiteside**, Concordia University Chicago, USA

Coffee Break 15:00-15:15

- 15:15-15:35 **Title: Economic impacts of potential food and mouth disease agro-terrorism in the United States: A computable general equilibrium analysis**  
**Gbadebo Oladosu**, Oak Ridge National Laboratory, USA
- 15:35-15:55 **Title: Personal survival skills: Our best defense**  
**Jamie L. Johnson**, Western Illinois University, USA

15:55-16:15 Title: Hypoxic preconditioning improves functional resistance of respiratory muscle against severe hypoxic shock  
Li Zuo, Oakland University, USA

16:15-16:30 Panel Discussion

17:30-18:30 Cocktail: Sponsored by Journal of Bioterrorism & Biodefense

Day 2 October 16, 2012

Versailles B

## Symposium

Title: Medical countermeasure strategy and requirements: Federal framework and initiatives

08:30-11:00 Title: Medical countermeasure requirements: Framework, players, process

Richard Jaffe, Department of Health and Human Services, USA

Title: Using risk to inform medical countermeasure development

Susan Collier Monarez, Department of Homeland Security, USA

Title: Integration of medical research and development into translational medicine

Jason Paragas, Defense Threat Reduction Agency, USA

Title: The integrated portfolio for CBRN medical countermeasures

Carol D. Linden, Department of Health and Human Services, USA

Coffee Break 11:00-11:15

Track 4: Public Health in Concern to Biothreats and Biodefense

Track 5: Biothreat Agents

11:15-11:35 Title: MRET activated water as possible agent for treatment in oncology models

Igor Smirnov, Global Quantech Inc., USA

11:35-11:55 Title: Nurse partnerships to improve integrated responses in vulnerable populations

Charlotte Sortedahl, University of Wisconsin, USA

11:55-12:15 Title: Platelets as potential drug targets in haemorrhagic fever

Dermot Cox, Royal College of Surgeons, Ireland

12:15-12:30 Panel Discussion

Lunch Break 12:30-13:15

Track 6: Technology Implementation in Biodefense Research

13:15-13:35 Title: Human monoclonal antibodies (mAb): Interrogation of the memory B cell compartment as a powerful platform for the discovery and development of superior therapeutics

Aurelio Bonavia, Theraclone-Sciences, USA

13:35-13:55 Title: Challenges of emerging biothreats and future prospects: The case of synthetic biology

Tim Trevan, International Council for the Life Sciences, USA

13:55-14:15 Title: FDTS enzyme as a target for infectious diseases and biowarfare agents

Irimpan I. Mathews, Stanford University, USA

14:15-14:35 Title: The use of anthrax and orthopox therapeutic antibodies from human origin in biodefense

Stef Stienstra, Royal Dutch Navy, Netherlands

14:35-14:55 Title: PANACEA Broad spectrum antiviral therapeutics

Todd H. Rider, Massachusetts Institute of Technology, USA

14:55-15:15 Title: Transgenic bovine system to produce fully human IgG polyclonal antibodies to fight infectious diseases

Yoshimi Kuroiwa, Hematech Inc., USA

15:15-15:30 Panel Discussion

Coffee Break 15:30-15:45

Track 7: Biodetection- Exercising the Identification of Biological Threats

15:45-16:05 Title: Identification of Staphylococcal enterotoxin B sequences important for binding to a glycosphingolipid receptor imparting renal cell death and T lymphocyte proliferation

Subroto Chatterjee, Johns Hopkins University, USA

16:05-16:25 Title: Synthetic mRNA as a tool in immunotherapy

Peter M. Rabinovich, Yale University School of Medicine, USA

16:25-16:50 Title: New trends in the detection of botulinum toxins by mass spectrometry

Bernd Klaubert, Central Institute of the Bundeswehr Medical Service, Germany

16:50-17:10 Title: Vitality and detection of *Bacillus anthracis* spores in dairy products

Katja Mertens, Institute of Bacterial Infections and Zoonoses, Germany

17:10-17:30 Title: A novel family of neutrophil-activating peptides hidden in mitochondrial proteins and their accumulative signaling mechanisms

Hidehito Mukai, Nagahama Institute of Bio-Science and Technology, Japan

17:30-17:45 Panel Discussion

18:00-19:00 Cocktail: Sponsored by Journal of Bioterrorism & Biodefense



Day 3      October 17, 2012

Versailles B

Track 8: Role of Organizations in the Implementation of Biosecurity Measures

- 09:00-09:20    Title: Ethical challenges in biodefense and bioterrorism  
John D. Loike, Columbia University, USA
- 09:20-09:40    Title: The International Federation of Biosafety Associations  
Joseph Kanabrocki, University of Chicago, USA
- 09:40-10:00    Title: The role of nursing profession in biodefense  
Jochebed Ade-Oshifogun, Chicago State University, USA
- 10:00-10:20    Title: Bio-terrorism: A call for renewed action  
Chukwudi Sunday Omattah, Federal University of Technology, Nigeria
- 10:20-10:35    Panel Discussion

Coffee Break 10:35-10:50

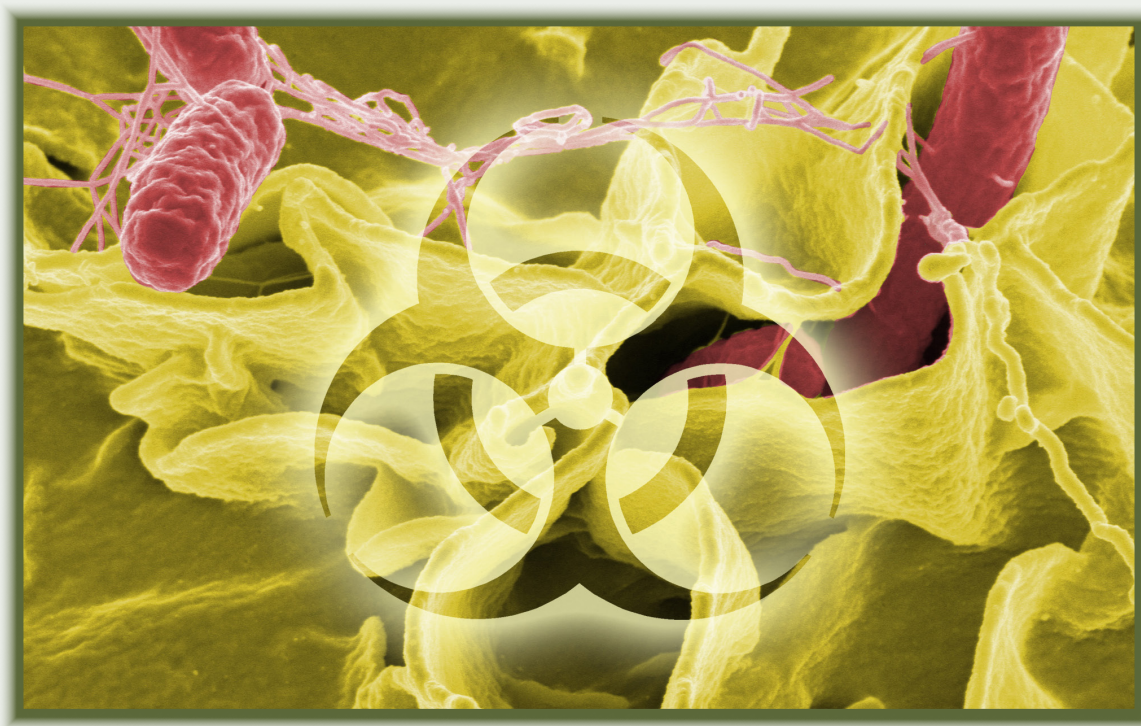
Bookmark your dates



2<sup>nd</sup> International Conference on

# Biothreats & Biodefense

October 7-9, 2013 Las Vegas, USA



**OMICS Group Inc.**

2360 Corporate Circle, Suite 400  
Henderson, NV 89074-7722, USA  
Ph: +1-888-843-8169  
Fax: +1-650-618-1417  
[omicsonline@omicsonline.com](mailto:omicsonline@omicsonline.com)

**OMICS Publishing Group**

5716 Corsa Ave., Suite 110, Westlake  
Los Angeles, CA 91362-7354, USA  
Ph: +1-650-268-9744  
Fax: +1-650-618-1414  
[omicsonline@omicsonline.org](mailto:omicsonline@omicsonline.org)

**OMICS Group**

1-90/1, Plot No. 20, Kavuri Hills  
Madhapur -HITEC City  
Hyderabad, A P, INDIA - 500 081  
Ph: 040-40206068, 40131823  
[omicsgroup@omicsgroup.org](mailto:omicsgroup@omicsgroup.org)

**Toll free**

**USA & Canada:** 1-800-216-6499  
**Australia:** 1-800-651-097  
**Europe:** 0805-080048