



2nd International
Conference on **Zika Virus**
and **Aedes Related Infections**



June 14-17, 2018 ✈️ **Tallinn, Estonia**

Thursday, June 14, 2018

17:00	<i>Registration opens at the Hilton Tallinn Park Hotel</i>	<i>Ballroom Foyer</i>
18:00 - 19:00	<i>Meet & Greet, drinks will be served</i>	<i>Terrace</i>

Friday, June 15, 2018

08:00	<i>Registration, coffee, poster viewing and visit the exhibition</i>	
08:45	OPENING REMARKS Eli Schwartz , Israel	
09:00 - 10:30	SESSION 1 - ZIKA EPIDEMIOLOGY Chair: Eli Schwartz , Israel	
	Keynote Lecture	
09:00	ZIKA AND OTHER AEDES TRANSMITTED DISEASES, PAST, PRESENT, AND FUTURE Duane J. Gubler , Singapore	
09:45	GENOMIC SURVEILLANCE OF ZIKA AND CHIKUNGUNYA VIRUSES' TRANSMISSION IN NORTH BRAZIL Felipe Iani , Brazil	
10:10	PREVALENCE OF ZIKA VIRUS NEUTRALIZING ANTIBODIES IN THE THAI POPULATION Duncan Smith , Thailand	

Friday, June 15, 2018

09:00 - 10:30 **SESSION 1 (Cont.)**
Chair: **Eli Schwartz**, Israel

10:15 PROLONGED DETECTION OF ZIKA VIRUS GENOME IN PREGNANT WOMEN AND GESTATIONAL OUTCOME AT DELIVERY IN BRAZIL
Daniel Araujo, Brazil

10:30 *Coffee, poster viewing and visit the exhibition*

11:00 - 12:30 **SESSION 2 - AEDES RELATED INFECTIONS (NON-ZIKA)**
Chair: **Celina Turchi Marteli**, Brazil

11:00 **Keynote Lecture**
THE DRAMA OF THE FIRST DENGUE VACCINE
Annelies Wilder Smith, UK

11:40 **Invited Lecture**
SURVEILLANCE OF ARBOVIRAL DISEASES IN AFRICA
Piero Olliaro, Switzerland

12:00 GENOMIC AND EPIDEMIOLOGICAL MONITORING OF YELLOW FEVER VIRUS TRANSMISSION POTENTIAL DURING THE 2017 EPIDEMIC IN BRAZIL
Felipe Iani, Brazil

12:15 ESTIMATING TIME SINCE SYMPTOMS ONSET OF CHIKUNGUNYA VIRUS INFECTION BASED ON IGM AND IGG TEST PARAMETERS
Orlando Ferreira Costa, Brazil

12:30 - 14:45 **COMPANY SPONSORED LUNCH SYMPOSIUM**
See details on page 27

Friday, June 15, 2018 (Cont.)

14:45 - 16:35 **SESSION 3 - VIROLOGY**

Chairs: **Nabila Jabrane-Ferrat**, France & **Ella Sklan**, Israel

14:45 ***Invited Lecture***

ZIKA VIRUS PATHOGENESIS AND INNATE IMMUNE RESPONSE AT THE MATERNAL-FETAL INTERFACE

Nabila Jabrane-Ferrat, France

15:05 A GENOME SCALE SCREEN REVEALS HOST FACTORS RESTRICTING ZIKA VIRUS INFECTION

Ella Sklan, Israel

15:20 ZIKA VIRUS SUBVERTS THE HUMAN PLACENTAL LIPIDOME

Qian Chen, France

15:35 PLACENTAL PATHOLOGY OF ZIKA VIRUS INFECTION FROM THE NICARAGUAN ZIKA POSITIVES (NZP) STUDY: PRELIMINARY FINDINGS

David Alan Schwartz, USA

15:50 INTERPLAY BETWEEN ZIKA VIRUS AND DECIDUAL NATURAL KILLER CELLS AT THE HUMAN MATERNAL-FETAL INTERFACE

Jordi Gouilly, France

16:05 ZIKA VIRUS REPLICATES WITHIN THE HUMAN TESTIS AND INFECTS THE GERM LINE

Laurent Houzet, France

16:20 THE SUMOLYSATION OF ZIKA NONSTRUCTURAL PROTEIN 5 (NS5) NS5 INFLUENCES ITS STABILITY, ITS CELLULAR LOCALIZATION AND ITS INTERFERON BLOCKING ACTIVITY

Solène Grayo, China

Saturday, June 16, 2018

09:00 - 10:45 **SESSION 4 - EPIDEMIOLOGY AND CLINICAL ASPECTS**
Chair: **Martin P. Grobusch**, The Netherlands

09:00 **Keynote Lecture**

AEDES RELATED INFECTIONS: EUROPEAN POINT OF VIEW
Celine Gossner, Sweden

09:30 DIAGNOSIS OF IMPORTED ARBOVIRUSES INFECTIONS AT THE ITALIAN NATIONAL REFERENCE LABORATORY FOR ARBOVIRUSES IN THE PERIOD NOVEMBER 2015 – DECEMBER 2017
Giulietta Venturi, Italy

09:42 RISK OF ZIKA VIRUS INFECTION IN ASYMPTOMATIC DUTCH MILITARY PERSONNEL AFTER DEPLOYMENT IN HIGH ENDEMIC AREAS
Cornelis Adrianus Pijper, The Netherlands

09:54 ZIKA VIRUS SCREENING IN RETURNING ISRAELI TRAVELERS
Eyal Meltzer, Israel

10:06 ATYPICAL AND SEVERE CLINICAL PRESENTATIONS OF ZIKA (ZIKV) AND CHIKUNGUNYA (CHIKV) VIRUS MONO AND CO-INFECTION: A 2 YEAR FOLLOW-UP
Marta Cavalcanti, Brazil

10:18 CASE FATALITY RATE FOR CONGENITAL ZIKA VIRUS SYNDROME IN BRAZIL: CURRENT ESTIMATES AND PROJECTIONS
Giovanny Franca, Brazil

10:30 ZIKA AND DENGUE VIRUS-SPECIFIC NEUTRALIZING ANTIBODIES: A MICROCEPHALY CASE-CONTROL STUDY IN AN AREA OF HIGH DENGUE ENDEMICITY IN BRAZIL
Priscila Castanha, Brazil

10:45 *Coffee, poster viewing and visit the exhibition*

Saturday, June 16, 2018 (Cont.)

11:15 - 12:45 **SESSION 5 - IN THE PIPELINE:
NEW METHODS FOR MOSQUITO CONTROL**
Chair: **Didier Musso**, French Polynesia

11:15 **Keynote Lecture**

MOSQUITO, HOST AND VIRUS: LOVE TRIANGLE IN THE URBAN JUNGLE

Paul Reiter, France

12:00 EVALUATION OF THE VECTOR COMPETENCE OF FIVE SPANISH POPULATIONS OF AEDES ALBOPICTUS FOR ZIKA VIRUS

Gabriela Garcia, Brazil

12:15 INTEGRATED AEDES MANAGEMENT FOR THE CONTROL OF AEDES-BORNE DISEASES

David Roiz, France

12:30 NEAR-INFRARED SPECTROSCOPY (NIRS) FOR INSTANT DETECTION OF ARBOVIRUSES IN AEDES AEGYPTI MOSQUITOES

Gabriela Garcia, Brazil

12:45 *Lunch, poster viewing and visit the exhibition*

Saturday, June 16, 2018 (Cont.)

13:45 - 15:00 **SESSION 6- IN THE PIPELINE:
VACCINES AND DRUGS FOR ZIKA AND AEDES RELATED INFECTIONS**
Chair: **Corey Casper**, USA

- 13:45 SYNTHETIC NUCLEIC ACID ANTIBODY PROPHYLAXIS (DMAB) + DNA VACCINE CONFERS RAPID AND DURABLE PROTECTIVE IMMUNITY AGAINST ZIKA VIRUS CHALLENGE
Kar Muthumani, USA
- 14:00 A YFV-17D BASED HIGHLY ATTENUATED CHIMERIC LIVE-ATTENUATED ZIKA VACCINE EFFICIENTLY PROTECTS AGAINST ZIKA VIRUS INDUCED DISEASE AND MORTALITY IN A STRINGENT MOUSE MODEL
Dieudonné Kum, Belgium
- 14:15 ADENOVIRAL VECTOR TYPE 26 ENCODING ZIKA VIRUS (ZIKV) M-ENV ANTIGENS INDUCES HUMORAL AND CELLULAR IMMUNE RESPONSES AND PROTECTS MICE AND NON-HUMAN PRIMATES AGAINST ZIKV CHALLENGE
Leslie Van der Fits, The Netherlands
- 14:30 ELIMINATION OF ZIKV INFECTION BY A NOVEL SMALL-MOLECULE INHIBITOR
Marianna Tampere, Sweden
- 14:45 ENHANCING CHIKUNGUNYA VIRUS IMMUNITY BY IMPROVED VACCINATION
Kar Muthumani, USA
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15:00 *Coffee, poster viewing and visit the exhibition*

Saturday, June 16, 2018 (Cont.)

15:30 - 17:00 **SESSION 7 - DIAGNOSTICS**

Chair: **Nathan Keller**, Israel

- 15:30 TESTING ANTI-ZIKA VIRUS NS1 IGA ADDITIONALLY TO IGM INCREASES SENSITIVITY IN ACUTELY INFECTED PATIENTS FROM REGIONS ENDEMIC FOR FLAVIVIRUSES
Konstanze Stiba, Germany
- 15:45 INNOVATIVE NEW APPROACHES TO THE LABORATORY DIAGNOSIS OF ARBOVIRUSES
Nischay Mishra, USA
- 16:00 VIROTRACK ZIKA DUO: A NEW RAPID AND QUANTITATIVE ZIKV SEROLOGY DIAGNOSTIC TESTING
Xiaole Wang, Denmark
- 16:15 HIGHLY SENSITIVE AND SPECIFIC ZIKA VIRUS SEROLOGICAL ASSAYS USING A MAGNETIC MODULATION BIOSENSING SYSTEM
Amos Danielli, Israel
- 16:30 CHALLENGES IN DIAGNOSING COCIRCULATING AND CROSS REACTING DENGUE, ZIKA AND CHIKUNGUNYA
Andreas Latz, Germany
- 16:45 SPECIFIC SEROLOGICAL DIAGNOSIS OF DENGUE AND ZIKA VIRUS INFECTIONS USING RECOMBINANT ENVELOPE PROTEINS
Alexandra Rockstroh, Germany

Sunday, June 17, 2018

09:00 - 11:00 **SESSION 8 - PREGNANCY AND THE FETUS**
Chair: **David Alan Schwartz, USA**

09:00 **Keynote Lecture**

CONGENITAL ZIKA SYNDROME: UPDATES AND GAPS IN KNOWLEDGE
David Baud, Switzerland

09:30 EPIDEMIOLOGY OF ZIKV-AFFECTED PREGNANCY OUTCOMES IN JAMAICA

Karen Webster Kerr, Jamaica

09:42 COHORT OF SYMPTOMATIC ZIKA VIRUS INFECTION PREGNANT WOMEN AFTER THE 2016 OUTBREAK IN CENTRAL PART OF BRAZIL. WHAT IS GOING ON NOW?

Marilia Dalva Turchi, Brazil

09:54 ZIKA VIRUS INFECTION IN PREGNANCY AND ADVERSE FETAL BIRTH OUTCOMES IN SÃO PAULO STATE, BRAZIL: A PROSPECTIVE PREGNANCY AND BIRTH COHORT STUDY

Nuria Sanchez Clemente, UK

10:06 ADVERSE PRENATAL AND EARLY NEONATAL OUTCOMES IN SYMPTOMATIC PREGNANT WOMEN WITH CONFIRMED ZIKA VIRUS INFECTION IN BRAZIL: THE ZIG STUDY

Conrado Coutinho, Brazil

10:18 MOTHER-TO-CHILD TRANSMISSION OF ZIKA VIRUS VIA BREASTFEEDING : ORIGIN AND TRANSMISSION CAPACITY OF INFECTIOUS PARTICLES IN BREASTMILK

Mathieu Hubert, France

Sunday, June 17, 2018 (Cont.)

09:00 - 11:00 **SESSION 8 (Cont.)**
Chair: **David Alan Schwartz**, USA

10:30 HEAD CIRCUMFERENCE AND REPORTED RASH AMONG 7,299 SUSPECTED CASES OF CONGENITAL ZIKA VIRUS SYNDROME IN BRAZIL: A CASE SERIES OF LIVEBIRTHS WITH COMPLETE INVESTIGATION
Giovanny Franca, Brazil

10:42 OPHTHALMOLOGICAL SPECTRUM FEATURES OF CHILDREN WITH CONGENITAL ZIKA SYNDROME IN PERNAMBUCO, BRAZIL
Liana Ventura, Brazil

11:00 *Coffee & poster viewing*

11:30 - 13:15 **SESSION 9 - CONCLUSION**
Chair: **Duane J. Gubler**, Singapore

11:30 ***Invited Lecture***
ZIKA OUTBREAKS IN BRAZIL: IS THE PUBLIC HEALTH THREAT OVER?
Celina Turchi Martelli, Brazil

11:50 REDUCTION OF FERTILITY RATE IN BRAZIL AFTER THE OUTBREAK OF MICROCEPHALY AND WORSENING ECONOMIC CRISIS
Valdelaine Etelvina Araújo, Brazil

12:02 ZIKA-VIRUS IN THE MASS MEDIA: HOW BRAZILIAN NEWSPAPERS REPORTED THE CONSEQUENCES TO CHILDREN'S DEVELOPMENT
Alessandra Barros, Brazil

Sunday, June 17, 2018 (Cont.)

11:30 - 13:15 **SESSION 9 (Cont.)**
Chair: **Duane J. Gubler**, Singapore

12:14 LESSONS AND WARNINGS FROM THE ZIKA AND CHIKUNGUNYA
EPIDEMICS
Abraham Goorhuis, The Netherlands

12:26 A NEW INSIGHT INTO THE DEFINITION OF MICROCEPHALY
Celina Turchi Martelli, Brazil

12:38 ***Invited Lecture***
GAPS REMAINING IN ZIKV INFECTIONS
Didier Musso, French Polynesia

13:00 CLOSING REMARKS
Eli Schwarz, Israel

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Friday, June 15, 2018

12:30 - 14:45 **COMPANY SPONSORED LUNCH SYMPOSIUM -
DIAGNOSTICS OF ARBOVIRUS INFECTION**
Chair: **Konstanze Stiba**, Germany

- 12:30 *Lunch served in the Las Vegas Hall*
- 12:50 OPENING *Grand Ballroom*
Konstanze Stiba, Germany
- 12:55 DIAGNOSIS: ARBOVIRUS INFECTION – CASE STUDIES FROM A
REFERENCE LABORATORY
Luisa Barzon, Italy
- 13:35 SEROLOGICAL ARBOVIRUS DIAGNOSTICS – DEALING WITH CROSS-
REACTIVITIES
Erik Lattwein, Germany
- 14:15 CLOSING REMARKS
Konstanze Stiba, Germany
- 14:25 *Desert served in the Exhibition Area*

POSTER PRESENTATIONS

1. ZIKA VIRUS-LIKE PARTICLE AND SUBVIRAL PARTICLE VACCINES
Sandra R. Abbo, The Netherlands
2. SEROPREVALENCE OF DENGUE, CHIKUNGUNYA AND ZIKA VIRUSES IN AN ANTENATAL POPULATION IN THE GREATER KINGSTON METROPOLITAN REGION OF JAMAICA
Joshua Anzinger, Jamaica
3. DEVELOPMENT OF MOUSE AND NON-HUMAN PRIMATE MODELS FOR NON-CLINICAL IMMUNOGENICITY AND EFFICACY ASSESSMENT OF PURIFIED INACTIVATED ZIKA VACCINE
Marie Clotilde Bernard, France
4. INTERIM MEASURE TO PREVENT ZKA VIRUS INFECTION IN PREGNANCY
Subramaniam Ramasamy Chettiar, Malaysia
5. COMPARISON OF VECTOR COMPETENCE OF AEDES ALBOPICTUS FOR CHIKUNGUNYA VIRUS ECSA STRAINS, WITH AND WITHOUT THE E1:A226V MUTATION, RESPONSIBLE FOR OUTBREAKS IN ITALY IN 2007 AND 2017, RESPECTIVELY
Claudia Fortuna, Italy
6. CONGENITAL ZIKA VIRUS SYNDROME AMONG LIVE BIRTHS IN BRAZIL: A DESCRIPTION OF THE DISTRIBUTION OF REPORTED AND CONFIRMED CASES IN 2015-2016
Giovanny Franca, Brazil
7. ANALYSIS OF THE SERUM LIPID PROFILE IN ZIKA VIRUS INFECTION
Felipe Iani, Brazil
8. CONGENITAL ZIKA SYNDROME AND OTHER BIRTH DEFECTS: EPIDEMIOLOGICAL AND CLINICAL FINDINGS
Felipe Iani, Brazil
9. GENETIC EVIDENCE OF ZIKA VIRUS IN MOTHER'S BREAST MILK AND BODY FLUIDS OF A NEW-BORN WITH CONGENITAL DEFECTS
Felipe Iani, Brazil
10. GENOMIC SURVEILLANCE OF CHIKUNGUNYA VIRUS FROM 2014 TO 2016 IN BAHIA, BRAZIL
Felipe Iani, Brazil

POSTER PRESENTATIONS (CONT.)

11. SPATIAL DISTRIBUTION OF ZIKA VIRUS TRANSMISSION IN FEIRA DE SANTANA, BAHIA, BRAZIL
Felipe Iani, Brazil
12. ZIKA VIRUS MOLECULAR DIAGNOSIS FROM DIFFERENT HUMAN BODY FLUIDS
Felipe Iani, Brazil
13. RECOMBINANT BACULOVIRUS DELIVERING PRM/E GENES FOR EFFECTIVE IMMUNE RESPONSES AGAINST ZIKA VIRUS
Young Bong Kim, Republic of Korea
14. INNOVATIVE APPLICATION TECHNOLOGY PROVEN TO BREAK DENV AND ZIKV TRANSMISSION – CURRENT STATUS
Heiko Kotter, France
15. SPECIFICITY OF AN AUTOMATED ZIKA IGG IMMUNOASSAY IN THE DETECTION OF ZIKA-IGG SPECIFIC ANTIBODIES – A VALIDATION APPROACH IN SAMPLES FROM PREVALENCE AREAS AND NON-ENDEMIC COUNTRIES
Tina Laengin, Germany
16. SILENT ENDEMIC CIRCULATION OF ROSS RIVER VIRUS IN THE PACIFIC ISLANDS AND RISK OF EMERGENCE IN OTHER TROPICAL AREAS
Didier Musso, French Polynesia
17. SEVERE THROMBOCYTOPENIA IN ZIKA PATIENTS; AN OVERVIEW OF TREATMENT STRATEGIES AND OUTCOMES
Cornelis Adrianus De Pijper, The Netherlands
18. SCREENING WITH THE SEROLOGICAL MULTIPLEX RECOMLINE TROPICAL FEVER IMMUNOBLOT IMPROVES THE DIFFERENTIATION OF ZIKV AND DENV INFECTIONS
Sarah Schulz, Germany
19. NEGLECTED AUSTRALIAN ARBOVIRUSES ASSOCIATED WITH UNDIAGNOSED UNDIFFERENTIATED FEBRILE ILLNESS
Andrew Taylor Robinson, Australia
20. PERCEPTIONS OF FAMILY PLANNING AND CONCERNS OF ADVERSE PREGNANCY OUTCOMES RELATED TO ZIKA VIRUS AMONG WOMEN IN COLOMBIA
Veronika Tirado, Sweden

POSTER PRESENTATIONS (CONT.)

21. SPATIO-TEMPORAL PATTERN ANALYSIS OF SYMPTOMATIC ZIKA VIRUS INFECTION AMONG PREGNANT WOMEN IN CENTRAL PART OF BRAZIL, 2015-2017
Marilia Dalva Turchi, Brazil
22. CONGENITAL ZIKA SYNDROME: ROLE OF SOCIOECONOMIC, ENVIRONMENTAL AND HEALTH INFLUENCE
Liana O. Ventura, Brazil
23. OSU-03012 INHIBITS ZIKV REPLICATION BY TARGETING THE PAKT PATHWAY
Zheng Zhu, China