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**Ecology of invasion: facing the impact of alien species and their transmitted pathogens in the Anthropocene**

**Provisional Agenda, LEXEM Scientific Workshop, 23rd-24th July 2015, Riva del Garda (TN), Italy**

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| --- | --- | --- | --- |
| Thursday 23rd July | 08:30 | 09:00 | Arrivals and registrations |
|  | 09:00 | 10:30 | Opening & Session I |
|  | 10:30 | 11:00 | Coffee Break |
|  | 11:00 | 13:00 | Session I |
|  | 13:00 | 14:15 | Lunch |
|  | 14:15 | 16:15 | Session II |
|  | 16:15 | 16:45 | Coffee Break |
|  | 16:45 | 18:15 | Session II |
|  | 19:00 |  | Dinner |
| Friday 24th July | 08:45 | 10:30 | Session II |
|  | 10:30 | 11:00 | Coffee Break |
|  | 11:00 | 13:00 | Session III |
|  | 13:00 | 14:15 | Lunch |
|  | 14:15 | 17:30 | Session III |
|  | 17:30 |  | Closing and departures |

Session I: Ecology

Session II: Modelling

Session III: Surveillance and Control

***THURSDAY 23RD JULY***

**8.30-9.00 Arrivals and registrations**

**9.00-9.15 Opening**

**Session I: Ecology (Chair: Isabella Cattadori, Penn State University - USA)**

**09.15-10.00 Peter Hudson (Penn State University, USA)**: Just when you thought it was safe...The ecology of disease invasion

**10.00-10.30 Uriel Kitron (Emory University, USA)**: Dengue on the move: a story on many scales

**10.30-11.00 Coffe Break**

**Session I (contd): Ecology (Chair: Alessandra Della Torre, Università La Sapienza, Roma - Italy)**

**11.00-11.30 Matthew Thomas (Penn State University, USA):** Understanding environmental determinants of transmission of vector-borne diseases

**11.30-12.00 David Roiz (IRD-MIVEGEC, France):** Ecology of *Aedes albopictus* and its transmitted pathogens in Africa and Europe

**12.00-12.30 Jason Rasgon (Penn State University, USA):** Symbiont invasion for vector-borne disease control

**12.30-13.00 Flash talks, questions and discussion**

**13.00-14.15 Lunch**

**Session II: Modelling (Chair: Marino Gatto, Politecnico Milano - Italy)**

**14.15-15.00 Mike Johansson (Harvard T.H. Chan School of Public Health, USA)**: Arbovirus invasion: lessons from models and Chikungunya

**15.00-15.30 Benjamin Roche (IRD-UMMISCO, France):** Chikungunya outbreak in Carribean island: drivers of spatio-temporal dynamics and consequences for epidemics probability in metropolitan France

**15:30-15:45** **Filippo Trentini (Bocconi University Milano, Italy):** Cost-benefit analysis of intervention strategies against *Aedes albopictus*and related risk of Chikungunya outbreaks in temperate climate countries

**15.45-16.15 Maira Aguiar (Lisbon University, Portugal):** Feels right, but it’s so wrong: the impact of empirical data analysis on public health practical intervention

**16.15-16:45 Coffe Break**

**Session II (contd): Modelling (Chair: Marino Gatto, Politecnico Milano - Italy)**

**16.45-17.15 Bobby Reiner (Indiana University, USA):** Estimating mosquito abundance and suitability in a changing landscape

**17.15-17.45 Giorgio Guzzetta (FBK Trento, Italy):** Effects of temperature and carrying capacity on mosquito dynamics

**17.45 -18.15 Flash talks, questions and discussion**

**19.00 Lakefront Dining**

***FRIDAY 24TH JULY***

**Session II (contd): Modelling (Chair: Alessia Melegaro, Bocconi University Milano - Italy)**

**8.45-09.15 Nik Wiman (Oregon State University, USA):** *Drosophila suzukii* population estimation and development of a real-time risk model

**09.15-9.45 Andrea Pugliese (University of Trento, Italy):** Modelling *Drosophila* dynamics in Trentino

**09.45-10.00** **Emanuele del Fava (Bocconi University Milano, Italy)**: Assessing the economic impact of *D. suzukii* on production of soft fruits in Trentino, Italy

**10.00-10.30 Flash talks, questions and Discussion**

**10.30-11.00 Coffe Break**

**Session III: Surveillance and control (Chair: Roberto Rosà, FEM San Michele all’Adige (TN) - Italy)**

**11.00-11.30 Chris Barker (UC Davis, USA):** Model-based decision support for surveillance and control of the invasive mosquito, *Aedes albopictus*

**11.30-11.50 Markus Neteler (FEM San Michele all’Adige (TN), Italy):** Spatial models for invasive species

**11.50-12.10 Gioia Capelli (IZSVE Padova, Italy):** Impact of *Aedes koreicus* on surveillance and control: what could change?

**12.10-12.30 Claudio Venturelli (AUSL Cesena, Italy)**: Life CONOPS, European project for surveillance of invasive species of mosquito: first results after two years of activity

**12.30-13.00 Flash talks, questions and discussion**

**13.00-14.15 Lunch**

**Session III (contd): Surveillance and control (Chair: Cristiana Maurella, IZS Torino - Italy)**

**14.15-14.45 Teun Dekker (Swedish University of Agricultural Science, Sweden):** Oviposition prophylaxis: development of baits that attract gravid female mosquitoes

**14.45-15.15 Gianfranco Anfora (FEM San Michele all’Adige (TN), Italy):**Ecologyof the *Drosophila suzukii* and implications for sustainable control

**15.15-15.45 Kent Daane (UC Berkeley, USA):** Prospects for classical biological control of *Drosophila suzukii*

**15.45-16.30 William Reisen (UC Davis, USA)**: Thoughts on the future of medical entomology

**16.30-17.30 Conclusion and work plan for scientific publications**

**17.30 Closing and departures**