

**Venue: Atlantic Garden Resort Hotel, 24a Genuevskaya street, Odesa 65009 Ukraine**

**Oral presentations**

Invited Lectures: 30 min + 10 min discussion

Other Speakers: 15 min + 5 min discussion

**Wednesday, October 03, 2018**

16:00 – 17:30 European Society for Animal Chlamydioses and associated Zoonoses (ESACZ)  
(closed meeting)

18:00 – 20:00 Registration

19:00 – 21:00 Welcome Cocktail

**Thursday, October 04, 2018**

08:00 – 08:30 Registration

08:30 – 08:40 Opening Address

PROF. BORYS STEGNIY – DIRECTOR OF NSC IECVM, KHARKIV

***Session 1: Cell Biology I***

*Chairs: Ian Clarke, David Longbottom*

08:40- 09:20 BARBARA SUSANNE SIXT, Umeå, Sweden

Invited Lecture *Chlamydia* and host cell death – old topic, new challenges

09:20 – 09:40 Kensuke Shima, Luebeck, Germany

The genetic transformation of *Chlamydia pneumoniae*

09:40 – 10:00 Alison Favaroni, Germany

The role of polymorphic membrane proteins (Pmps) in *Chlamydia psittaci* strains with different infectious potential

10:00 – 10:20 COFFEE BREAK



***Session 2: Cell Biology II, tissue tropism, resistance, treatment***

*Chairs: Daisy Vanrompay, Karine Laroucau*

- 10:20 – 10:40 Robert Schoborg, Johnson City, TN, USA  
Binding of elementary bodies the opportunistic fungal pathogen *Candida albicans* inhibits *Chlamydia trachomatis* infectivity
- 10:40 – 11:00 Firuza Bayramova, Lausanne, Switzerland  
Characterization of cell division mechanisms of *Waddlia chondrophila*, a Chlamydia-related bacterium
- 11:00 – 11:20 Delia Onorini, Bologna, Italy  
The influence of centrifugation and incubation temperature on various veterinary and human chlamydial species
- 11:20 – 11:40 Elisabeth Liebler-Tenorio, Jena, Germany,  
Immunohistochemical demonstration of the tissue tropism of *Chlamydia pecorum* in porcine abortions
- 11:40 – 12:00 Christiane Schnee, Jena, Germany  
Understanding tetracycline resistance in *Chlamydia suis*
- 12:00 – 12:20 Jasmin Kuratli, Zurich, Switzerland  
wIRA/VIS irradiation reduces chlamydial infectivity of *C. trachomatis* independent of targeted cytokine and chemokine inhibition

12:20 – 13:20 LUNCH BREAK

***Session 3: Vaccines***

*Chairs: Maria-Rosa Caro, Bryan Markey*

- 13:20- 14:00 PETER TIMMS, University of the Sunshine Coast, Australia  
Invited Lecture Towards better control of chlamydial infection and disease in koalas
- 14:00 – 14:20 Karine Laroucau, Maisons-Alfort, France  
What is the importance of abortions due to the live vaccine *C. abortus* 1B strain in sheep flocks?
- 14:20 – 14:40 Morag Livingstone, Penicuik, UK  
Development of a new vaccine to protect sheep from ovine enzootic abortion



14:40 – 15:00 Laura del Rio, Murcia, Spain

Effect of progesterone on the vaccination and immune response against *Chlamydia abortus* in the natural host

15:00 – 15:20 Jizhang Zhou, Lazhou City, China

Study on an inactivated vaccine against *Chlamydia abortus* isolated from yaks (*Bos grunniens*) and immunization tests in yaks

15:20 – 15:45 COFFEE BREAK

15:45 – 16:00 The Chlamydia Biobank, University of Southampton (Colette O'Neill)

16:00 – 17:00 Poster Session

**18:00 – 22.30 ODESA CITY TOUR AND SOCIAL DINNER**

**Friday, October 05, 2018**

***Session 4: Pathogenesis, animal models***

*Chairs: Christiane Schnee, Simone Magnino*

- 9:00 – 9:40 ROBERT SCHOBORG, Johnson City, TN, USA  
Invited Lecture When Pathogens Don't Share Well: Chlamydia/Herpes Simplex Virus Co-infection in Cell Culture and *In Vivo*
- 9:40 – 10:00 Monimul Islam, University of the Sunshine Coast, Australia  
Development of *Chlamydia pecorum* induced arthritis in lambs
- 10:00 – 10:20 Anne Ammerdorffer, Amsterdam, The Netherlands  
*Waddlia chondrophila*: from bovine abortion to human miscarriage
- 10:20 – 10:40 Cheng He, Beijing, China  
Feed-borne *Bacillus cereus* aggravates respiratory distress of *Chlamydia psittaci*
- 10:40 – 11:00 COFFEE BREAK
- 11:00 – 11:20 European Society for Animal Chlamydioses and associated Zoonoses (ESACZ),  
David Longbottom
- 11:20 – 12:00** ***Poster flash presentations: 3 min presentation, 2 min discussion***  
*Chairs: Yvonne Pannekoek, Nicole Borel*
- PF 1** The Human Immunodeficiency Virus (HIV) drugs dolutegravir and elvitegravir inhibit *Chlamydia trachomatis* and *C. muridarum* development in culture (Robert Schoborg)
- PF 2** Plasmid loss in *Chlamydia muridarum* (Emma Cousins)
- PF 3** Clinical outcome of ocular infection with *Chlamydia suis* S45 in nursery piglets (Christine Unterweger)
- PF 4** Effect of sex hormones on the establishment of the immune response induced by vaccination against *Chlamydia abortus* in a mouse model (Maria Rosa Caro, Laura del Rio)
- PF 5** Efficacy of a new inactivated vaccine against *Chlamydia abortus* and *Salmonella enterica* serovar Abortusovis experimental challenges of pregnant ewes (Carlos Montbrau Morcillo)
- PF 6** Protective efficacy of a new inactivated vaccine against *Chlamydia abortus* in a pregnant mouse model (Carlos Montbrau Morcillo)
- PF 7** Genomic analysis of pmps and plasticity zone of two *C. pecorum* isolates from a chamois and a water buffalo (Simone Magnino)

12:00 – 13:00 LUNCH BREAK

*Session 5: Epidemiology, Genomics*

*Chairs: Danijela Horvatek-Tomic, Krzysztof Niemczuk*

13:00 – 13:20 Janine Fritschi, Zurich, Switzerland

*Chlamydiales* and hemotropic mycoplasmas in captive and free-living bats in Switzerland, Germany and Costa Rica

13:20 – 13:40 Prisca Mattmann, Zurich, Switzerland

An update on *Chlamydiaceae* in wild, feral and domesticated pigeons in Switzerland

13:40 – 14:00 Marloes Heijne, Lelystad, The Netherlands

Rapid transmission of *Chlamydia gallinacea* in a layer hen flock

14:00 – 14:20 Monika Szymańska-Czerwińska, Pulawy, Poland

Whole-Genome Sequencing of avian *Chlamydia abortus* strains isolated from wild birds

14:20 – 14:40 David Longbottom, Pencuik, UK

Genomic analysis of an intermediate *C. psittaci* – *C. abortus* strain

14:40 – 15:00 Yvonne Pannkoek, Amsterdam, The Netherlands

Population structure, phylogeny and functional genomics of *Chlamydiales*

15:00 – 15:20 COFFEE BREAK

*Chairs: Anton Gerilovych, Vitaliy Bolotin*

15:20 – 16:00 SERVAAS A. MORRÉ, Amsterdam, The Netherlands

Invited Lecture The role of host genetic markers in the the susceptibility to and severity of Chlamydiae and chlamydia-like infections

**16:00 – 16:20 CLOSING REMARKS AND AWARDS**

**17:00 – 19:00 WINE TOUR**

**Poster Session**

Thursday, October 04, 16:00 - 17:00 (Posters will be displayed throughout the entire meeting)

**Poster flash presentations: 1-7**

**Poster Chlamydia: 8-11**

**Poster other bacteria: 12-15**

	<b>Authors</b>	<b>Title</b>
1.	YAKOOB, H.; LIU, C.; GRIMM, M.; SLADE, J.; BERRY, A.; KINTNER, J., WHITTIMORE, J.; SCHOBORG, R.	The Human Immunodeficiency Virus (HIV) drugs dolutegravir and elvitegravir inhibit <i>Chlamydia trachomatis</i> and <i>C. muridarum</i> development in culture.
2.	COUSINS, E., O'NEILL, C., MARSH, P., CLARKE, IN.	Plasmid Loss in <i>Chlamydia muridarum</i>
3.	UNTERWEGER, C.; SETUDEH, S.; INIC-KANADA, A.; STEIN, E; BARISANI-ASENBAUER, T.; LADINIG, A.	Clinical outcome of ocular infection with <i>Chlamydia suis</i> S45 in nursery piglets
4.	A. MURCIA-BELMONTE, D. ÁLVAREZ, N. ORTEGA, J.A. NAVARRO, E. GÓMEZ-LUCÍA, A.J. BUENDÍA, L. DEL RÍO, J. SALINAS AND M.R. CARO	Effect of sex hormones on the establishment of the immune response induced by vaccination against <i>Chlamydia abortus</i> in a mouse model
5.	FONTSECA, M.; MONTBRAU, C.; SALINAS, J.; CARO, M.R.; GUTIERREZ-EXPOSITO, D.; ARTECHE, N.; PEREZ, V.; BENAVIDES, J.; BEZOS, J.; GARCÍA-SECO, T.; DOMÍNGUEZ L.4; SITJÀ, M.; MARCH, R.	Efficacy of a new inactivated vaccine against <i>Chlamydia abortus</i> and <i>Salmonella enterica</i> serovar Abortusovis experimental challenges of pregnant ewes
6.	MONTBRAU, C.; FONTSECA, M.; ROCA, M. ORTEGA, N.; DEL RÍO, L.; ALVAREZ, D.; MURCIA-BELMONTE, A.; CARO, M.R.; SALINAS, J.; MARCH, R.; SITJÀ, M.	Protective efficacy of a new inactivated vaccine against <i>Chlamydia abortus</i> in a pregnant mouse model
7.	RIGAMONTI, S.; FLORIANO, A.M.; LONGBOTTOM, D.; SCALTRITI, E.; COMANDATORE, F.; CASADEI, G.; CAPUCCI, L.; DONATI, M.; VICARI, N.; MAGNINO, S.	Genomic analysis of pmps and plasticity zone of two <i>C. pecorum</i> isolates from a chamois and a water buffalo
8.	VAN DOOREMALEN, W.; MORRE, S.A.; VAN DER WIELEN, P.; AMMERDORFFER, A.	Presence of <i>Waddlia chondrophila</i> in drinking water systems in the Netherlands
9.	CASPE, S.G.; LONGBOTTOM, D.; MILNE, E.; LIVINGSTONE, M.; WATTEGEDERA, S.; AITCHISON, K.; ENTRICAN, G.; SARGISON N.; CHIANINI, F.	Why are there different clinical outcomes in multifetal sheep infected with <i>Chlamydia abortus</i> ?
10.	HORVATEK TOMIC, D.; QUILCOT, A. M.; GOTTSTEIN, Z.; LUKAC, M.; PRUKNER-RADOVCIC, E.	Presence of <i>Chlamydiaceae</i> in different birds kept in zoos and other collections in Croatia



11.	<u>KRIVOSHEI, I.</u> ; PESCH, T.; PRÄHAUSER, B., POSPISCHIL, A.; BOLOTIN, V.; BOREL, N.	<i>Chlamydia abortus</i> and <i>Chlamydia pecorum</i> infections in ruminants in Ukraine
12.	<u>OREKHOVA, G.</u> ; ZAVGORODNIY, A.; BOLOTIN, V.	Serological screening for <i>Yersinia enterocolitica</i> serotypes O:3, O:6.30 and O:9 in ruminants and pigs during 2015-2017
13.	<u>ZLENKO, O.</u> ; DURR, A.; SCHWARZ, J.; VYDAIKO, N.B.; GERILOVYCH, A.P.	MLVA analysis of <i>Franchisella tularensis</i> samples collected on the territory of Ukraine from 1997 to 2016
14.	<u>MYKHAILENKO, A.</u> ; SCHWARZ, J.; DUERR, A.; BOLOTIN, V.; GERILOVYCH, A.	Characterization of Ukrainian <i>Brucella</i> strains by a Bruce-ladder multiplex polymerase chain reaction assay
15.	<u>BILOIVAN, O.</u> ; DUERR, A.; SCHWARZ, J.; STEGNIY, B.; SOLODIANKIN, O.; GERILOVYCH, A.	Validation of qPCR method for detection of <i>Bacillus anthracis</i> pXO2 plasmid at NSC IECVM