7TH MEETING OF THE EUROPEAN SOCIETY FOR CHLAMYDIA RESEARCH

JULY 1-6, 2012

VU UNIVERSITY AMSTERDAM
European Scientific Committee 2012: 7th Meeting
Servaas Morré (Chair; The Netherlands)
Angelika Stary (Austria)
Per-Anders Mårdh (Sweden)
Mirja Puolakkainen (Finland)
Ian Clark (UK)
Mattias Maass (Austria)
Judit Deák (Hungary)
Konrad Sachse (Germany)
Gilbert Greub (Switzerland)
Patrick Horner (UK)

Local organising committee:

Servaas A. Morré (The Netherlands)
Sander Ouburg (The Netherlands)
SUNDAY JULY 1ST

Time
14.00  Registration
       In front of the Amstelzaal, VU University Medical Centre

16.00  Word of Welcome
       Prof.dr. Servaas Morré

16.05  Opening lecture: “Chlamydia – yet another array”
       Prof.dr. Andreas Pospischil

17.00  Social gathering
       Drinks and snacks. In front of the Amstelzaal
Session: Typing

Moderators: Björn Herrmann & Yvonne Pannekoek

Time  
9.00  Comparison of multilocus sequence typing and multilocus typing microarray of Chlamydia trachomatis strains in Argentina  

9.20  Multi Locus Sequence Typing of Chlamydia psittaci and Chlamydia pecorum from birds and mammals reveals an association between Chlamydia genotypes and host species  
Yvonne Pannekoek, Zahide Eroğlu, Wendy C. Keijzers, Konrad Sachse, Bernhard Kaltenboeck, Karine Laroucau, Arie van der Ende

9.40  Chlamydia trachomatis serovar distribution in clinical genital specimens from Tunisian patients: high prevalence of C. trachomatis serovar E and mixed infections  
Houda Gharsallah, Olfa Frikha-Gargouri, Hanen Sellami, Fatma Besbes, Abir Znazen and Adnene Hammami

10.00  Distinct clusters and mixing of Chlamydia trachomatis genotypes in Paramaribo, Suriname and Amsterdam, the Netherlands  
Reinier Bom, Jannie van der Helm, Sylvia Bruisten, Leslie Sabajo, Antoon Grünberg, Henry de Vries

10.15  MLVA subtyping of genovar E Chlamydia trachomatis individualizes the Swedish variant and anorectal isolates from men who have sex with men  
Olivia Peuchant, Chloé Le Roy, Björn Herrmann, Maithé Clerc, Cécile Bébéar, Bertille de Barbeyrac

10.30  Genotyping of Chlamydia trachomatis strains from men who have sex with men and women in the Netherlands, Sweden and USA: Evidence for tissue tropism or not?  
Reinier Bom, Linus Christerson, Sylvia Bruisten, Resha Yass, Justin Hardick, Göran Bratt, Charlotte Gaydos, Servaas Morré and Björn Herrmann

10.45  Chlamydia trachomatis genotypes and plasmid variants detected in clinical urogenital samples in the Southeastern European region of Russia  
Feodorova VA, Konnova SS, Druzhkin IN, Polyanina TI, Tambovskaya VA, and Motin VL

11.00  Chlamydia trachomatis genotyping from South-American samples using an ompA-based DNA microarray assay  
Gallo Vaulet, ML; Ruettger, A; Entrocassi, AC; Portu, AI; Di Bartolomeo, S; Occhionero, M; Castro, E; K. Sachse, Rodriguez Fermepin, M.
Break: 11.15 – 11.40

**Session: Serology**

*Moderators: Paddy Horner & Servaas Morré*

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<th>Time</th>
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<tr>
<td>12.00</td>
<td>11</td>
<td>The Role of Local Antibodies in <em>Chlamydia trachomatis</em> Infection and the Correlation between Antibody Response and Chlamydial Load over a Four Month Period</td>
<td>Wiggins RC, Morris GM, Habgood L, and Lacey CJN</td>
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<tr>
<td>12.15</td>
<td>12</td>
<td>Chlamydia pneumoniae and cardiovascular diseases: Serology exploration</td>
<td>Fouzia.RADOUANI, Mohammed HASSAR</td>
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<tr>
<td>12.30</td>
<td>13</td>
<td>Detection of abnormal prostate cancer markers in a Chlamydia-infected man suffering from lower urinary tract symptoms</td>
<td>Vitaly Smelov, Andrey Novikov</td>
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<td>13.00</td>
<td>15</td>
<td>The most prevalent C. trachomatis serogroup B serovars D and E induce the highest levels of IgG: 2 independent cohorts and 2 different serological assays</td>
<td>Esmée Lanjouw, Stephan P. Verweij, Caroline J. Bax, Koen D. Quint, Paul M. Oostvogel, P. Joep Dörr, Jolein Pleijster, Susanne K. Kjaer, H.T. Tjhie, Adriaan J.C. van den Brule, Henry J.C. de Vries, Remco P.H. Peters, Sander Ouburg, and Servaas A. Morré</td>
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Lunch: 13.30 – 14.15
**Session: Immunology / Vaccinology**  
*Moderators: Kathleen Kelly & Toni Darville*

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<tr>
<td>14.15</td>
<td>Preclinical evaluation of memory responses induced by a multisubunit chlamydial vaccine</td>
<td>F. O. Eko, Q. He, C. Black, J. U. Igietseme</td>
</tr>
<tr>
<td>14.40</td>
<td>Progress towards the development of a chlamydial vaccine for koalas</td>
<td>Avinash Kollipara, Carmel George, Jon Hanger, Jo Loader, Galit Rawlinson, Jacqui Brumm, Karen Nilsson, Adam Polkinghorne, Kenneth Beagley, and Peter Timms</td>
</tr>
<tr>
<td>14.55</td>
<td>Identification of <em>Chlamydia trachomatis</em> immunodominant antigens in pigtail macaques following a genital infection</td>
<td>Luis M. de la Maza, Andy A. Teng, Xiaowu Liang, and Dorothy L. Patton</td>
</tr>
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<td>15.10</td>
<td>Comparative in vitro elicitation of reactive oxygen/nitrogen species and cytokines in <em>Chlamydia pneumoniae</em> and <em>Chlamydia trachomatis</em> infected human monocytes</td>
<td>Marangoni A., Bergamini C., Fato R., Cavallini C., Foschi C, Russo I., Nardini P., Cevenini R.</td>
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<td>15.25</td>
<td>Development of a Novel In-Cell Western (ICW) Neutralization Assay for Chlamydia Using Infrared Dyes and LI-COR Odyssey Instrument Technology</td>
<td>Jodie A. Field, Aimin Tang, Adam Finnefrock, Jon Heinrichs, and Jeffrey G. Smith</td>
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<td>15.55</td>
<td>B cells and Antibodies Induced by Intranasal <em>Chlamydia trachomatis</em> Mouse Pneumonitis (MoPn) Immunisation play an Important Role in Protection to Primary Genital Tract MoPn Infection</td>
<td>Annie George-Chandy, Anja Olsen, Frank Follmannand Peter Lawætz Andersen</td>
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<tr>
<td>16.10</td>
<td>Enhanced ICOS-L expression on DC of IL-10 knockout mice is critical for Th17 but not Th1 response in chlamydial infection</td>
<td>Xiaoling Gao, Lei Zhao, Megan Yang, Shuhe Wang, Hong Bai, Jie Yang and Xi Yang</td>
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<td>16.25</td>
<td>CD4+ T cell expression of MyD88 is required for normal resolution of <em>Chlamydia muridarum</em> genital tract infection</td>
<td>Lauren C. Frazer, Matthew A. Zurenski, Margaret A. Mintus, Toni Darville</td>
</tr>
</tbody>
</table>
Cardiovascular Markers and *Chlamydia pneumoniae* Antibodies, what does our expiriance show?
*Tatjana Grdanoska, Planinka Zafirovska, Branko Jaglikovski, Irina Pavlovskia I., Beti Zafirova, Kiril Mihajlov, Elena Trajkovska- Dokic, Milena Petrovska, Zhaklina Cekovska, Irena Kondova- Topuzovska, Ljubica Georgievska- Ismail, Nikola Panovski*

**INFLUENCE OF AGE IN THE CLINICAL DIDDERENTIATION OF ATYPICAL PNEUMONIA IN ADULTS**
*Naoyuki Miyashita, Yasuhiro Kawai, Hiroto Akaike, Kazunobu Ouchi, Niro Okimoto*

**HEMATOGENOUS DISSEMINATION OF *C. TRACHOMATIS* INFECTION**
*Nailya A. Zigangirova, Yulia P. Rumyantseva, Elena U. Morgunova, Elena A. Kost, Lubov V. Didenko, Ivan Petyaev*

**NON-THERMAL ARGON PLASMA IS BACTERICIDAL FOR CHLAMYDIA TRACHOMATIS**
*Natalia I. Kolkova, Nelly A. Zigangirova, Svetlana A. Ermolaeva, Elena V. Sysolyatina, Amir I. Tuhvatulin, Elena D. Fedina, Mikhail M. Vasiliev, Gregor E. Morfill*

Prevalence of antibodies against *Simkania negevensis* in sera of adult patients with respiratory and gastrointestinal symptoms, in Italy
*Manuela Donati, Natascia Fiani, Antonietta Di Francesco, Maria Di Paolo, Roberto Cevenini*

Detection of *Simkania negevensis* in cell culture by using a monoclonal antibody
*Manuela Donati, Maria Di Paolo, Simone Avanzi, Antonietta Di Francesco, Natascia Fiani, Roberto Cevenini*

*Chlamydia trachomatis* genotype distribution and other sexually transmitted coinfections in subjects attending a STD Outpatients Clinic in Italy
*Foschi C., Russo I., Entrocassi A. C., Marangoni A., Ostanello F., D’antuono A., Bellavista S., Trimarco R., Nardini P., Cevenini R.*

Processing of *Chlamydia abortus* Polymorphic Membrane Protein 18D during the chlamydial developmental cycle
*Nick M. Wheelhouse, Michelle Sait, Kevin Aitchison, Morag Livingstone, Kevin McLean, Neil Inglis, David G.E. Smith, David Longbottom*
Real-time PCR Detection of Chlamydia pneumoniae in Oropharyngeal Swabs Using the 3M™ Integrated Cycler
James T. Summersgill

Genome sequences of all Chlamydia psittaci genotype reference strains
Van Lent S., Piet J., Beeckman, D., van der Ende A., Bavoil P., Myers G., Vanrompay D., Pannekoek Y

Novel class of small molecule CPAF inhibitors block C.trachomatis infection in vitro
Daria Y. Davydova, Nailya A. Zigangirova, Aleksander V. Grishin, Anna S. Kariagina, Igor P. Lupu, Yuri F. Bely

Expression and immunogenicity of proteins encoded by Chlamydia muridarum plasmid in different mouse strains
Timea Mosolygo; Ildiko Faludi, Emese Petra Balogh, Adrienn, Karai, Fanni Kerekes, Valeria Endresz, Dezso P. Virok, Katalin Burian

Analysis of the expression of different interleukin-17 cytokines in mice infected with Chlamydomphila pneumonia
Timea Mosolygo; Jozsef Korcsik, Emese Petra Balogh, Ildiko Faludi, Dezso P. Virok, Valeria Endresz, Katalin Burian

Costs of testing for ocular Chlamydia trachomatis infection relative to two further mass treatment rounds in The Gambia
Emma Harding-Esch, Mireia Jofre-Bonet, Jaskiran Dhanjal, Sarah Burr, Tansy Edwards, Martin Holland, Ansumana Sillah, Sheila West, Tom Lietman, Jeremy Keenan, David Mabey, Robin Bailey

Comparison of isothermal amplification methods using HyBeacon™ probes for point-of-care detection of Chlamydia trachomatis
Colette O'Neill, Michael Andreou, Tom Brown, Duncan Clark, Paul Debenham, David French, John Holloway, Rebecca Howard, Peter Marsh, James Richardson and Ian Clarke.

Protective efficacy of UV inactivated EB formulated in cationic liposomes (CAF01) in a genital challenge model in Göttingen Minipigs
Sarah Bøje, Karin Ernehholm, Anja Olsen, Jørgen S. Agerholm, Gregers Jungersen, Frank Follmann, Peter Lawætz Andersen

Evaluation of ompA–based pyrosequencing assay for Chlamydia trachomatis genotyping
Kese Darja, Kogoj Rok, Potocnik Marko, Maticic Mojca

Identification of novel type III secretion substrates of Chlamydia trachomatis
Catarina Milho, Maria Cunha, Filipe Almeida, Rui Maurício, and Luís Jaime Mota
BACTERIAL GHOSTS AS AN ANTIGEN DELIVERY SYSTEM AGAINST OCULAR CHLAMYDIAL INFECTIONS – the concept
Jacqueline Montanaro, Aleksandra Inic-Kanada, Elisabeth Stein, Simone Schlacher, Nora Bintner, Sandra Belij, Marijana Stojanovic, Werner Lubitz, Talin Barisani-Asenbauer

Effect of vaginal lactobacilli on Chlamydia trachomatis infection

EVALUATION OF INTRATRACHEAL INOCULATION AS A ROUTE OF EXPERIMENTAL INFECTION WITH C. ABORTUS IN SHEEP AND EFFICACY OF VACCINATION
MR Caro; JA Navarro; N Ortega; AJ Buendía; MC Gallego; L Del Rio; F Cuello A. Murcia, D Alvarez, J Sanchez and J Salinas

DECREASING OF THE EFFICACY OF VACCINATION AGAINST CHLAMYDIA ABORTUS IN OVEREXPRESSING IL-10 TRANSGENIC MICE
MR Caro; JA Navarro; N Ortega; AJ Buendía; MC Gallego; L Del Rio; F Cuello A. Murcia and J Salinas

Could vascular Chlamydia pneumoniae infection be considered as a risk factor for chronic neurological diseases?
Di Pietro M., Schiavoni G., Cazzavillan S., Segala C., Bevilacqua P., Bonoldi E., d’Amore ES., Rassu M., Sessa S.

Antimicrobial activity of Mentha suaveolens against Chlamydia trachomatis

The large Pmp adhesin family – more than one function in chlamydial infection?
Elisabeth Becker, Johannes H. Hegemann

Eyescores: Open source software for the secure electronic collection of field data in trachoma studies and tools to assist in the documented grading of trachoma from photographic evidence
Chrissy H. Roberts, Tamsyn Derrick and Martin Holland

Evidence of the association of Chlamydia-like organisms with cases of bovine abortion in the UK
David Longbottom, Michelle Sait, Nicole Borel, Gilbert Greub, Frank Wright, Nick Wheelhouse

Detection of a novel Chlamydiaceae in wild birds in north western Italy
Francesca Rizzo, Nadia Vicari, Serena Robetto, Andrea Manfredini, Mauro Giammarino, Riccardo Orusa, Maria Lucia Mandola
High prevalence of *Chlamydia* spp. with a considerable proportion of chlamydial co-infections in clinically healthy sheep flocks

_Hannah Lenzko, Udo Moog, Anke Ruettger, Roland Diller, Christian Menge, Konrad Sachse, Lisa D. Sprague_

Distinct *Chlamydia trachomatis* epidemics in men who have sex with men and heterosexuals

_Reinier Bom, Jannie van der Helm, Maarten Schim van der Loeff, Martijn van Rooijen, Titia Heijman, Amy Matser, Henry de Vries, Sylvia Bruisten_

No title

_He, Qing_

THE LONG RESEARCH ROAD TO DEVELOPING HIGHLY SENSITIVE CHLAMYDIAL MONOCLONAL ANTIBODY AND GROUP AND SPECIES SPECIFIC CHLAMYDIAL ANTIGENS FROM 1956 TO 1983

_Howard M. Jenkin_

Bioaerosol as indicator of the health status in parrot and pigeon flocks

_Alenka Dovč, Cvetka Marhold, Uroš Krapež, Brigita Slavec, Štefan Pintarič, Gregor Jereb, Darja Keše_

CXCR3-dependent immunity exacerbates acute oviduct pathology throughout *Chlamydia muridarum* infection

_Janina Jiang, Cheryl I. Champion, Guangchao Liu, Heather K. Maxion, Karthika Balasubramanian, Christine Van Horn, Elizabeth Czornyj, and Kathleen A. Kelly._

Development of a real-time PCR for specific detection of *Waddlia chondrophila*

_Mohamed Barkallah, Imen Fendri, Gilbert Greub, Radhouane Gdoura_

Increased IL-8 relative expression induced by *Chlamydia trachomatis* infection in HeLa and CCL 20.2 cell cultures

_Portu, AI., Gallo Vaulet, ML., Rodríguez Fermepin, M._

Prevalence of *Chlamydia trachomatis* antibodies among trans (male to female transvestites, transsexuals or transgender) sex workers in Argentina

_Portu, AI, Gallo Vaulet, ML, Dos Ramos Farias MS, Avila MM, Rodríguez Fermepin, M._

*Chlamydiaceae* species and *Chlamydia psittaci* detection in fecal droppings from pigeons in Buenos Aires City public squares

_ML. Gallo Vaulet, AI. Portu, AC. Entrocassi, M. Mestre, K. Sachse, M. Rodríguez Fermepin_
TA32, a General Transcription Activator for σ-dependent genes, Activates Transcription by Contacting a Non-conserved Region in σ and DNA, and is a Potential Therapeutic Target
Xiaofeng Bao and Huizhou Fan

FIRST DETECTION OF CHLAMYDOPHILA PECORUM IN CAPTIVE BIRDS IN ARGENTINA
Frutos, MC. Gallo Vaulet, ML. Monetti, M. Venezuela, F., Kiguen, X.

Effect of the treatment for genitourinary co-infection by Chlamydia trachomatis and Ureaplasma urealyticum, on sperm DNA fragmentation and male fertility

Genotyping markers used for multi locus VNTR analysis with ompA (MLVA-ompA) retain stability through cell culture adaptation and multiple passages in diverse Chlamydia trachomatis genotypes including the Swedish new variant nvCT
Clare Labiran, Ian Clarke, Lesley Catcliffe, Rachel Skilton, Yibing Wang, Carinna Bjartling, Kenneth Persson, Peter Marsh

Molecular epidemiology snapshots of Chlamydia trachomatis infections in South America. CLAMINET: South American Network for Basic and Epidemiological Research on Chlamydia infections
Entrocassi AC, Gallo Vaulet ML, Cuffini MC, Castro E, Martinez Tagle MA, Occhionero M, Rodriguez Fermepin M.

A semipurified phenolic compound from Lithrea molleoides (Vell.) Engl. inhibits C. trachomatis in a selectively way
Entrocassi, A. C., Lopez, P., Gallo Vaulet, M.L., Portu, A.I., Ferraro, G., Rodriguez Fermepin, M.

High prevalence of genital Chlamydia trachomatis infection in men from Resistencia city, Chaco, Argentina
Piccoli, R. I, Gualtieri, V. P, Gallo Vaulet, M.L., Rodriguez Fermepin, M.

Chlamyophilapsittaci: isolation and prevalence in SPF flock
Yong Ling, Xi Chen, Junjing Yang and Cheng He

Undressing Waddlia chondrophila to use enriched outer membrane proteins in a specific ELISA.
Julia LIENARD, Antony CROXATTO, Alain GERVAIX, Carole KEBBI-BEGHDADI and Gilbert GREUB

Chlamydia Publications from the Laboratories of Howard M/ Jenkin During the Years of 1960-1985
Howard M. Jenkin
CHLAMYDIA TRACHOMATIS PREVALENCE STUDY IN A POPULATION AT HIGH RISK FOR SEXUALLY TRANSMITTED DISEASES IN MILAN, USING A MULTIPLEX MOLECULAR ASSAY
Archenti A., Biagiola P., Pasquali D., Casa R., Panuccio A.

Drinks are available at the bar in the Foyer in front of the Amstelzaal.
Session: Epidemiology 1
Moderators: Henry de Vries & Carina Bjartling

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<tr>
<td>9.00</td>
<td>Lymphogranuloma Venereum and chlamydia proctitis in men who have sex with men</td>
<td>HJC de Vries</td>
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<tr>
<td>9.25</td>
<td>The survey of Chlamydia trachomatis ano-rectal infections with genovar LGV strains (Lymphogranuloma venereum) and non LGV strains in France</td>
<td>Bertille de Barbeyrac, Maithé Clerc, Laure Imounga, Véronique Goulet, Chloé Le Roy, Olivia Peuchant, Guy La Ruche, Cécile Bébéar</td>
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<td>9.40</td>
<td>Chlamydia trachomatis infection among women in Italy: data from a Sentinel STI Surveillance System based on a network of microbiology laboratories</td>
<td>Salfa Maria Cristina, Regine Vincenza, Raimondo Mariangela, Camoni Laura, Suligoi Barbara</td>
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<td>9.55</td>
<td>A five year follow up of the new Swedish variant of Chlamydia trachomatis after introduction of appropriate testing in the south of Sweden</td>
<td>Carina Bjartling, Kenneth Persson, Berit Hammas, Håkan Janson, Carina Bjartling, Joakim Dillner, Lena Dillner</td>
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<tr>
<td>10.10</td>
<td>High prevalence of bacterial STI among women in rural Mopani District, South Africa</td>
<td>van der Eem L, Dubbink JH, Mbambazela N, Verweij SP, Ouburg S, Morre SA, Peters RP</td>
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<tr>
<td>10.25</td>
<td>Chlamydia trachomatis reported among US Army Soldiers</td>
<td>Clemmons NS, Jordan NN, Nowak G, Gaydos JC</td>
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<td>10.40</td>
<td>Effectiveness of annual register-based screening for Chlamydia among young people in the Netherlands: controlled trial with randomised stepped wedge design</td>
<td>IVF van den Broek, JEAM van Bergen, JSA Fennema, HM Götz, CJPAL Hoebe, RH Koekenbier, MEE Kretzschmar, GA de Wit, MAB van der Sande, N. Low and ELM Op de Coul</td>
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Break: 10.55 – 11.20
Session: Genomics and Bioinformatics

Moderators: Ian Clarke & Deborah Dean

Time No.
11.20 Whole-genome analysis of diverse Chlamydia trachomatis strains identifies phylogenetic relationships masked by current clinical typing
Simon R Harris, Ian N Clarke, Helena M B Seth-Smith, Anthony W Solomon, Lesley T Cutcliffe, Peter Marsh, Rachel J Skilton, Martin J Holland, David Mabey, Rosanna W Peeling, David A Lewis, Brian G Spratt, Magnus Unemo, Kenneth Persson, Carina Bjartling, Robert Brunham, Henry J C de Vries, Servaas A Morré, Arjen Speksnijder17, Cécile M Bébéar, Maïté Clerc, Bertille de Barbeyrac, Julian Parkhill1 & Nicholas R Thomson

11.40 Selection, Recombination, and Population Structure in Chlamydia trachomatis genomes
Sandeep J. Joseph1, Xavier Didelot3, Raymond Wan4, Timothy D. Read1,2 Deborah Dean4,5

12.00 Isolation of new Chlamydia species from feral sacred Ibis (Threskiornis aethiopicus): Candidatus Chlamydia ibidis
Fabien Vorimore, Suzanne Bastian, Lucie Deruyter, Anne Passet, Konrad Sachse, Patrik Bavoil, Garry Myers, Karine Laroucau.

12.15 Candidatus Syngnamydia venezia, a novel member of the phylum Chlamydiae and a potential model for host-pathogen coevolution
Alexander Fehr, Elisabeth Walther, Heike Schmidt-Posthaus, Lisbeth Nufer, Anthony Wilson, Helmut Segner, Andreas Pospischil, Lloyd Vaughan

Lunch: 12.30 – 13.15

Genomics and Bioinformatics Continued

13.15 mRNA sequencing of the Chlamydia trachomatis infected human neutrophil granulocyte transcriptome
Dezso P. Virok, Katalin Filkor, Timea Mosolygo, Katalin Burian, Valeria Endrezs, Judit Deak, István Nagy

13.30 Comparative genomic analysis of three Chlamydia pecorum strains associated with different disease manifestations
Michelle Sait, Morag Livingstone, Nick Wheelhouse, Bryan Markey, Simone Magnino and David Longbottom.

13.45 Genome-wide RNA interference as tool for characterization of host cell function in Chlamydia infection
Marion Rother, Erik González, Matteo Pardo, André Maeruer, Peter Braun, Thomas F. Meyer

14.00 Sequencing the genome of Chlamydia trachomatis directly from clinical samples
Helena M.B. Seth-Smith, Simon R. Harris, Colette O’Neill, Surendra Parmar, Rachel J. Skilton, Hamid Jalal, Ian N. Clarke and Nicholas R. Thomson
Session: Diagnostics

Moderators: Angelika Stary & Mirja Puolakkainen

Time | No. | Title |
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14.15 | 89 | Impact of Chlamydial Infection on Male Urethra Microbiota  
*Barbara Van Der Pol, Deming Mi, Qunfeng Dong, Barry Katz, Rongsua Rong*  
*Cheryl Densi, David E. Nelson and Dennis Fortenberry* |
14.40 | 90 | How to identify LGV genotypes in a diagnostic laboratory: Genotyping of Chlamydia trachomatis in NAAT positive rectal and pharyngeal specimens by pmpH-PCR  
*Suvi Korhonen, Eija Hiltunen-Back and Mirja Puolakkainen* |
14.55 | 91 | Chlamydial Genovars in Trachoma-Endemic Villages in Niger: Sequencing of Positive Ocular Samples Detected with Gen-Probe’s Aptima Chlamydia trachomatis Test  
*Julius Schachter, Jeanne Moncada, Erich Schneider, Andrew Rogér, Richard Stephens and Amza Abdou* |
15.10 | 92 & 93 | Validation of Copan SL-Solution for the detection of sexual transmitted infection in semen samples by culture and molecular amplification assays  
*Santina Castriciano, Arnalda Giambra Laura Conter, Francesca Meazzi, Sandra Mazzoli,*  
*Validation of ESwab for the collection of clinical specimens for the detection of Chlamydia trachomatis and Neisseria gonorrhoeae with Roche Cobas® 4800 CT/NG assay*  
*S. Castriciano, A. Squassina, S. Diani, V. Prina, V. Grazioli, D. DeMaria, M.G. Latino* |
15.25 | 94 | Chlamydia trachomatis in Cervical and Vaginal Samples from an APTIMA Specimen Collection and Transportation Kit and Liquid-Based Pap Vials  
*Max Chernesky, Dan Jang, Jodi Gilchrist and Marek Smieja* |
15.40 | 95 | Usefulness of Positron Emission Tomography for genital Chlamydia infection assessment in the murine model  
*Marangoni A., Nanni C., Quarta C., Foschi C., Russo I., Nardini P., D’Errico A., Rosini F., Aldini R., Cevenini R.* |

Break: 15.55 – 16.20
Session: Animal models

Moderators: Joseph Igietseme & Andreas Klos

Time | No. | Title                                                                 | Authors
--- | --- | ---------------------------------------------------------------------- | --------------------------------------------------
16.20 | 96  | *Chlamydia pneumoniae* and asthma bronchiale in a mouse model: Decrease in airway hyperresponsiveness to house dust mite allergen after pneumonia | Pavel Dutow, Sandra Lingner, Jenny Bode, Robert Laudeley, Silke Glage, Heinz-Gerd Hoymann, Anna-Maria Dittrich, Meike Müller, Armin Braun, and Andreas Klos

16.35 | 97  | Prevention of chlamydia-induced infertility by inhibition of local caspase activity | Joseph U. Igietseme, Yusuf Omosun, James Partin, Jason Goldstein, Qing He, Kahaliah Joseph, Debra Ellerson, Francis Eko, Claudiu Bandea, and Carolyn M. Black


17.05 | 99  | Development and histopathologic characterization of ureaplasmal and chlamydial endometritis murine model | Alvarez-Cevas S; Ramos-Gonzalez B; Navarro-Foz S; Añcer-Rodriguez J; Sanchez-Hernandez JJ; Noguera Salva R; Gallegos-Avila MG.
### Session: Molecular Biology & Pathogenesis 1

**Moderators: Michael Starnbach & Peter Timms**

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<tr>
<td>9.00</td>
<td>Genetic transformation of a naturally-occurring plasmid-free genital tract isolate of <em>Chlamydia trachomatis</em> (serovar F)</td>
<td>Yibing Wang, Simona Kahane, Rachel Skilton, Lesley Cutcliffe, Paul Lambden, Kenneth Persson, Carina Bjartling, Ian N Clarke</td>
</tr>
<tr>
<td>9.25</td>
<td>IFNγ-induced pathways are required to restrict <em>Chlamydia trachomatis</em> growth</td>
<td>Catarina Viana Nogueira and Michael Starnbach</td>
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<td>9.40</td>
<td>Chemical inhibition demonstrates that HtrA is essential for the viability of <em>Chlamydia trachomatis</em></td>
<td>Sarina Gloeckl, Pooja Patel, Joel DA Tyndall, Peter Timms, Matthew Bogyo, Wilhelmina M Huston</td>
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<td>10.10</td>
<td>Study of host-pathogen interactions in <em>Chlamydia psittaci</em> and <em>Chlamydia abortus</em>-infected chicken embryos reveals marked differences in dissemination and regulation</td>
<td>Maria Braukmann, Konrad Sachse, Ilse D. Jacobsen, Martin Westermann, Christian Menge, Hans-Peter Saluz, Angela Berndt</td>
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<tr>
<td>10.25</td>
<td>A Polimorphic Membrane Protein D Null Mutant is Deficient in Early Host Cell Interaction</td>
<td>Laszlo Kari, Timothy Southern, Carey Downey, Linnell Randall, Heather Watkins and Harlan Caldwell</td>
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**Break: 10.40 – 11.05**
Session: Pediatrics and Pregnancy

Moderators: Margaret Hammerschlag & Ingrid Rours

Time  | No.  | 11.05  | Prediction model for selective screening of *Chlamydia trachomatis* infection in Dutch pregnant women
      |      |        | G. Ingrid J.G. Rours, MD PhD; David van Klaveren, MSc, Roel P. Verkooijen, MD PhD; Vincent W. Jaddoe, MD PhD; Albert Hofman, MD PhD; Henri A. Verbrugh, MD PhD; Ewout W. Steyerberg, PhD
      |      |        | Prevalence and risk factors of *Chlamydia trachomatis* infection among Dutch pregnant adolescents and young women
      |      |        | G. Ingrid J.G. Rours, MD PhD; Alewijn Ott, MD PhD; Roel P. Verkooijen, MD PhD; Vincent W. Jaddoe, MD PhD; Albert Hofman, MD PhD; Henri A. Verbrugh, MD PhD

11.30  | 106 & 107  | Use of NAATs to Detect *Chlamydia trachomatis* in Children Being Evaluated for Suspected Sexual Abuse: Basis for the Recommendations of the 2010 Centers for Disease Control STD Guidelines
      |      |        | Margaret R. Hammerschlag, M.D.

11.45  | 108  | A Pseudo-Outbreak of Chlamydia trachomatis Infection Among Children Being Evaluated for Suspected Sexual Abuse
      |      |        | Emily Siffermann, MD, Michele Lorand, MD, Kathleen G Beavis, MD and Margaret R Hammerschlag, MD

12.00  | 109  | Prevalence and factors associated with *Chlamydia trachomatis*, *Neisseria gonorrhoeae* and *Mycoplasma genitalium* infection status in French pregnant women

12.15  | 110  | Seroprevalence of *Chlamydia trachomatis* antibodies in children
      |      |        | Kobkul Chotikanatis, Margaret R. Hammerschlag, Stephan Kohlhoff

Lunch: 12.30 – 13.15

13.00 – 13.30:  | 111  | Board meeting of the European Society for *Chlamydia* Research
      |      |        | Board members only
      |      |        | Location: Waver meeting room (ZH-1C118.17; below the Amstelzaal)

Free Afternoon
Session: Epidemiology 2
Moderators: Julius Schachter & Per-Anders Mårdh

Time                   | Title                                                                                     | Presenters
---                    | ------------------------------------------------------------------------------------------------| ----------------------------------------
9.00                   | Can we trust current surveillance systems as a source to understand the epidemiology of genital chlamydia infections? | Per-Anders Mårdh
9.40                   | A cross-sectional household survey of trachomatous eye disease and ocular infection with *Chlamydia trachomatis* on the Bijagos Archipelago of Guinea Bissau, West Africa: Small islands with big problems | A Last, E Cassama, S Burr, M Nabicassa, J Nacutum, M Holland, R Bailey
9.55                   | Urogenital Chlamydia trachomatis infection is a Hyperendemic Disease in Paramaribo, Suriname. Results from a Multiethnic Society | Jannie van der Helm, Reinier Bom, Antoon Grünberg, Sylvia Bruisten, Maarten Schim van der Loeff, Henry de Vries, Leslie Sabajo
10.10                  | CHLAMYDIA SCREENING IN IRELAND - NOT READY YET? RESULTS OF A PILOT STUDY OF OPPORTUNISTIC SCREENING FOR GENITAL CHLAMYDIA TRACHOMATIS INFECTION IN THE REPUBLIC OF IRELAND | Dr. Emer O’Connell, D Vaughan, R Brugha, M Balfe, M Cormican, P Gillespie, C O’Neill, C Coleman, C Fleming, M Fitzgerald, A Murphy, D O’Donovan
10.25                  | Screening of Chlamydia trachomatis Infection in men, Is It Necessary in Iran? | Fatholahzadeh Bahram, Bahador Abbas, Haghghi Hasanabad Morteza

Break: 10.40 – 11.05
### Session: Inhibition and Treatment

**Moderators:** Robin Bailey & Nicole Borel

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<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Authors</th>
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<tr>
<td>11.30</td>
<td>A single dose of water-filtered infrared A (wIRA) irradiation inhibits acute chlamydial infection</td>
<td>Hanna Marti, Christian Blenn, Claudia Dumree, Andreas Pospischil, Nicole Borel</td>
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<tr>
<td>11.45</td>
<td><em>Chlamydia trachomatis</em> test-of-cure cannot be based on a single highly sensitive laboratory test taken at least 3 weeks after treatment</td>
<td>Nicole HTM Dukers-Muijers, Arjen GCL Speksnijder, Servaas A Morré, Ingrid van den Broek, Marianne AB van der Sande, Petra Wolffs, Antionette Brink, Christian JPA Hoebe</td>
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<tr>
<td>12.00</td>
<td>Inhibition of <em>Chlamydia pneumoniae</em> infectivity by β-amino acid derivatives mimicking cationic antimicrobial peptides</td>
<td>Leena Pohjala, Dominik Ausbacher, Morten B. Strom, Pia Vuorela</td>
</tr>
<tr>
<td>12.15</td>
<td>In vitro inhibition of <em>Chlamydia trachomatis</em> and <em>Chlamydia pneumoniae</em> by extracts from a native Argentinian plant: <em>Hydrocotyle bonariensis</em> Lam.</td>
<td>Entrocassi, A. C., Ouvína, A., Gallo Vaulet, M.L, Ferraro, G., Rodriguez Fermein, M.</td>
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**Lunch: 12.30 – 13.15**

### Session: Chlamydia-like

**Moderators:** Gilbert Greub & Nicole Borel

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<th>Time</th>
<th>Presentation</th>
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<tr>
<td>13.15</td>
<td>Genomics of chlamydiae: insight into the biology and evolution of <em>Chlamydia</em> and <em>Chlamydia</em>-related bacteria</td>
<td>Claire Bertelli and Gilbert Greub</td>
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<tr>
<td>13.40</td>
<td>Chlamydiaceae, Parachlamydia and Waddia in porcine reproductive failures</td>
<td>Maria Koschwanez, Marina Meli, Andrea Vögtlin, Gilbert Greub, Xaver Sidler, Martin Handke, Titus Sydler, Carmen Kaiser, Andreas Pospischil, Nicole Borel</td>
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<td>13.55</td>
<td>Molecular characterization of atypical <em>Chlamydia</em> and evidence of their dissemination in different European and Asiatic chicken flocks by specific real-time PCR</td>
<td>Aleksandar Zocevic, Fabien Vorimore, Cvetka Marhold, Danijela Horvatek, Dongying Wang, Brigita Slavec, Zoi Prentza, Grigoris Stavrias, Estella Prakner-Radovic, Alenka Dove, Victoria I. Starkou, Karine Laroucau</td>
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<tr>
<td>14.10</td>
<td>Variation in outer membrane protein composition among Simkania negevensis, Waddlia chondrophila, and Parachlamydia acanthamoebae</td>
<td>Karin Aistleitner, Thomas Schott, Dorothea Anrather, Martin Pilhofer, Peter Pichler, Gustav Ammerer, Grant Jensen, and Matthias Horn</td>
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</table>
**Session: Molecular Biology and Pathogenesis 2**

*Moderators: Pricilla Wyrick & Patrik Bavoil*

**Time** | **No.** | **Title** | **Authors**
---|---|---|---
14.25 | 127 | A newly identified type-III secreted effector of *Chlamydia psittaci* targets the nucleus late in development | *Sergio Mojica, Kelley Hovis, Jason McDermott, Patrik Bavoil*

14.40 | 128 | Screen for type III secretion chaperones of *Chlamydia trachomatis* identifies a novel effector-chaperone pair, and also Slc1 as a multi-effector chaperone | *Sara V. Pais and Luís Jaime Mota*

14.55 | 129 | Cpn0803 of *Chlamydia pneumoniae* forms a ring-like tetrameric structure | *Chris B. Stone and James B. Mahony*

15.10 | 130 | Spatial correlation between the structure and function of *Chlamydia trachomatis* in host cell invasion revealed by electron microscopy | *David N Banbury, Raffaella Carzaniga, Tillmann Pape, Ken A Fields, Rey A Carabeo*

**Break: 15.25 – 15.45**

**Molecular Biology and Pathogenesis 2 Continued**

15.45 | 131 | An iron-dependent transcriptional regulator is generated from cleavage of the YtgC permease in *Chlamydia trachomatis* | *Christopher C. Thompson, Sophie Nicod, Denise S. Malcolm, Scott S. Grieshaber, and Rey Carabeo.*

16.00 | 132 | Increased risk of early onset scarring in trachoma associates with the HLA-C2 ligand of KIR in individuals who possess the CEN-B sub-haplotype | *Chrissy H. Roberts, Sandra Molina, Pateh Makalo, Hassan Joof, Sarah Burr, David C. Mahey, Robin Bailey, Matthew Burton and Martin Holland.*

16.15 | 133 | The profile of host micro RNA (miR) expression in trachomatous disease reveals miR-34c and -190b are associated with scarring | *Tamsyn Derrick, Chrrissy Roberts, Megha Rajasekhar, Sarah Burr, Hassan Joof, Pateh Makalo, Matthew Burton, Robin Bailey, David Mabey, Martin Holland.*

16.30 | 134 | Yaa1 - a potential door opener for *C. pneumoniae* internalization? | *Tim Fechtner and Johannes H. Hegemann*

16.45 | 135 | Chlamydia infection remodels the host histone code and potentiates host cell transformation | *Cindrilla Chumduri, Rajendra Kumar Gurumurthy, Thomas F. Meyer*

17.00 | 136 | Chlamydial mimicry of a paxillin-related motif that signals through focal adhesion kinase | *Tristan R. Thwaites, Ivan Campeotto, David N. Banbury, Ana T. Nogueira, Scott S. Grieshaber, and Rey A. Carabeo*

17.15 | 137 | Differences in the amino acid sequence of Inc proteins, and in the expression of inc genes, among *Chlamydia trachomatis* serovars correlate with the type of infection and with tissue tropism | *Filipe Almeida, Vítor Borges, Rita Ferreira, Maria José Borrego, João Paulo Gomes, and Luís Jaime Mota*
17.30 Chlamydia trachomatis hijacks intra-Golgi COG complex-dependent vesicle trafficking pathway
Pokrovskaya I.D., Szwedo J.W., Goodwin A., Lupashina T.V., Nagarajan U.M., and Lupashin V.V.

17.45 Chlamydia Co-opts the Rod-Shape Determining Proteins MreB and Pbp2 for Cell Division
Scot P. Ouellette, Gouzel Karimova, Agathe Subtil, and Daniel Ladant

19.00 Meeting dinner
Location: Koningszaal of the Royal Artis Zoo (see p. 24)
FRIDAY JULY 6TH

Session: Chlamydiae
Moderators: Konrad Sachse & Lee Ann Campbell

Time | Topic | Authors
--- | --- | ---
9.00 | Monitoring of an urban pigeon population reveals a high prevalence of chlamydiae other than Chlamydia psittaci | Konrad Sachse, Simone Kuehlewind, Anke Ruettger, Evelyn Schubert, Gernot Rohde

9.20 | Chlamydia pneumoniae induction of the expression of proatherogenic factors occurs through activation of the lectin-like oxidized LDL receptor-1 | Lee Ann Campbell, Amy W. Lee, Michael E. Rosenfeld, and Cho-chou Kuo

9.40 | ABC-cassette transporter 1 (ABCA1) expression in epithelial cells in Chlamydia pneumoniae infection | Juha T. Korhonen, Vesa Olkkonen, Riitta Lahesmaa, Mirja Puolakkainen

9.55 | Investigating the paradox of placental IDO expression and pathogenesis of ovine chlamydial abortion | Sean R Wattegedera, Julian Pearce, Nick Wheelhouse, Tim Baszler, Colin McInnes and Gary Entrican.

10.10 | Development of a latent infection following experimental infection of sheep by intranasal inoculation with Chlamydia abortus | Morag Livingstone, Stephen Maley, Arjan van der Zon, Mintu Nath, Nicholas Wheelhouse, Kevin Aitchison, Sean Wattegedera, Lucy Gilder, Kim Wilson, Mark Dagleish, Mara Rocchi, Gary Entrican, David Buxton, David Longbottom


10.40 | Emerging Chlamydia suis infections in pigs | K. Schautteet, E. De Clercq, D. Vanrompay


Break: 11.10 – 11.30

Session: Late Breakers
Moderators: Servaas Morré & Sander Ouburg

Time | Topic | Authors
--- | --- | ---
11.30 | BACTERIAL GHOSTS AS ANTIGEN DELIVERY SYSTEM FOR OCULAR SURFACE DISEASES – Anchoring of Antigens in Different Bacterial Membrane Compartments | Simone Schlacher, Jacqueline Montanaro, Aleksandra Inic-Kanada, Sandra Belij, Elisabeth Stein, Nora Bittner, Werner Lubitz, Talin Barisani-Asenbauer

12.00 | Closure

Lunch: 12.05 – 13.00
Meeting Dinner of the 7th meeting of the European Society for Chlamydia Research

Date: Thursday 5th of July
Time: 19.00-22.00
Location: Artis Royal Zoo (since 1838, one of the oldest Zoo’s in Europe), Koningszaal (King’s Hall)
Address: Natura Artis Magistra, Plantage Kerklaan 38-40, Amsterdam
Website: http://www.artis.nl/en/artis-royal-zoo/
Connection: Metro 51, 40 minutes from the VU University medical center (meeting facility)

Koningszaal (King’s Hall)
The King’s hall of the historic museum building, with the Lion and the Tiger in front of the richly ornamented entrance is recently renovated. During the renovation treasures from the past were restored to full glory: elegant wall paintings, beautiful panelled doors, and beautiful panelling on the ceilings. These glimpses into the past are carefully preserved and made visible again. During the meeting dinner the Artis Royal Zoo can be visited (access from the Koningszaal).