

Organized by



21ST ESCV



EUROPEAN SOCIETY FOR
CLINICAL VIROLOGY

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Final Programme

Under the Auspices



HELLENIC REPUBLIC
MINISTRY OF TOURISM

23-26 SEPTEMBER - ZAPPEION MEGARON

ATHENS  2018



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Committees

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Javier Buesa (*Spain*)

Peter Coyle (*Qatar*)

Mariet Feltkamp (*The Netherlands*)

Heli Harvala (*United Kingdom*)

Paul Klapper (*United Kingdom*)

Andreas Mentis (*Greece*)

Hubert Niesters (*The Netherlands*)

Svein Arne Nordbø (*Norway*)

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Elizaveta Padalko (*Belgium*)

Paulo Paixão (*Portugal*)

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Anna Papa (*Greece*)

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Susanne Gjeruldsen Dudman (*Norway*)

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Athanasios Tsakris (*Greece*)

Pamela Vallely (*United Kingdom*)

Alexandra Valsamakis (*USA*)

Annemiek van der Eijk (*The Netherlands*)

Welcome Message



Dear Colleagues and friends,

It is our great pleasure to invite you to the **21st ESCV Annual Meeting** which will be held in Athens, 23-26 September, 2018.

The ESCV Annual Meeting has been a major event for the Clinical Virology scientific community and it is becoming more popular, comprehensive, innovative and influential, while maintaining high standards of scientific quality and a family atmosphere. The 21st ESCV Annual Meeting is promising to be an exciting event, covering all timely topics of Clinical Virology, enabling delegates to exchange knowledge with world's leading experts, network with colleagues and discuss the latest advances on "traditional" and emerging viruses.

The ESCV 2018 Scientific Committee is preparing a new inspiring Programme for this event. The Conference will include all of its "classical" features, such as keynote lectures, oral presentations, poster sessions and awards to outstanding clinical virologists. Furthermore, state-of-the-art diagnostic applications on Clinical Virology from leading companies are expected to be presented in industry-sponsored symposia.

Athens, as the host city for the 21st ESCV Annual Meeting is an excellent choice since it combines natural beauty, cultural wealth and an array of up-to-date infrastructures that not only guarantee organizational efficiency, but also promise a highly refreshing and pleasurable experience for all participants. Furthermore, Athens is a symbolic city with fundamental contribution in science, philosophy and arts, recognized as the birthplace of the Western civilization and Democracy. Situated in the very heart of Athens, the Congress venue itself, the Zappeion Megaron, is a "living" testament of Greece's long and diverse modern history.

The Local Organizing Committee is fully motivated and will make every possible effort to offer an unforgettable experience for all ESCV 2018 participants, this time with a specific Greek flavour.

We look forward to welcoming you in Athens in September 2018, eager to exchange views on our field and ready to enjoy the marvelous late summer overlooking the Aegean coastline.



George Sourvinos
Conference Chair



Javier Buesa
ESCV President



Programme at a Glance

Sunday 23 rd September 2018	12.00 - 13.00	Pre-Conference Industry-Sponsored Symposium (in Greek language)
	13.55 - 14.00	Welcome Notes, Chair of 21st ESCV AM
	14.00 - 15.30	Session 1: Respiratory Viruses
		Keynote Lecture
		Oral presentations (O01-O06)
		Heine - Medin Award
	15.30 - 16.00	Coffee Break
	16.00 - 17.30	Session 2: Viruses in the immunosuppressed host
		Keynote Lecture
	Oral presentations (O07-O12)	
17.30 - 18.45	Session 3: Prevention / Vaccines	
	Keynote Lecture	
	Oral presentations (O13-O15)	
18.45 - 19.45	Industry-Sponsored Symposium	
19.45 - 20.45	Opening Ceremony - Welcome Addresses	
	Opening Lecture: Prof. Harald zur Hausen (Nobel Laureate)	
20.45	Welcome reception	

Monday 24 th September 2018	08.30 - 09.30	Industry-Sponsored Symposium
	09.30 - 10.30	Session 4: Viral Pathogenesis and Immune Responses
		Keynote Lecture
		Oral Presentations (O16-O18)
	10.30 - 11.00	Coffee Break
	11.00 - 12.30	Session 5: Emerging Viruses
		Gardner Lectureship
		Oral Presentations (O19-O22)
	12.30 - 14.00	Lunch
		ESCV Council Meeting (including lunch)
	14.00 - 15.00	Industry-Sponsored Symposium
	15.00 - 16.00	Industry-Sponsored Symposium
	16.00 - 17.30	Session 6: Hepatitis Viruses
Keynote Lecture		
	Oral Presentations (O23-O26)	
17.30 - 18.00	Coffee Break	
18.00 - 19.30	Session 7: Congenital & Neonatal Viral Infections	
	Keynote Lecture	
	Oral Presentations (O27-O30)	
19.30 - 21.00	Poster Session (P001-P158)	

Programme at a Glance



Tuesday 25 th September 2018	08.30 - 09.30	Industry-Sponsored Symposium
	09.30 - 10.30	Session 8: Diagnostic Advances in Clinical Virology I / Point-of-Care Diagnostics Industry Lecture Award Oral Presentations (O31-O33)
	10.30 - 11.00	Coffee Break
	11.00 - 12.30	Session 9: Viral Gastroenteritis / CNS infections Keynote Lecture Oral Presentations (O34-O37)
	12.30 - 13.30	Lunch - Poster Session (P159-P318) ENPEN Meeting
	13.30 - 14.30	Industry-Sponsored Symposium
	14.30 - 15.30	Industry-Sponsored Symposium
	15.30 - 16.40	Session 10: HIV / Sexually transmitted viral infections Keynote Lecture Oral Presentations (O38-O40)
	16.40 - 17.05	Coffee Break
	17.05 - 18.15	Session 11: Diagnostic Advances in Clinical Virology II / Clinical Metagenomics Keynote Lecture Oral Presentations (O41-O43)
	18.15 - 18.35	ESCV General Assembly
	18.40	Departure for the Greek Night Dinner

Wednesday 26 th September 2018	08.30 - 09.30	Industry-Sponsored Symposium
	09.30 - 11.00	Session 12: Viral Oncogenesis Keynote Lecture Oral Presentations (O44-O47)
	11.00 - 11.30	Coffee Break
	11.30 - 12.00	Industry Lecture Award
	12.00 - 13.30	Session 13: Clinical Syndromes Keynote Lecture Oral Presentations (O48-O51)
	13.30 - 14.00	Closing Remarks - Hand over (Presentation of 22nd ESCV meeting)



Scientific Programme

12.00 - 13.00 **Pre-Conference Industry-Sponsored Symposium (in Greek language)**

13.55 - 14.00 **Welcome Address**
Chair of the 21st ESCV Annual Meeting

14.00 - 15.30 **Session 1
Respiratory Viruses**
Chair: Maria S​o Jos​e Nascimento, Ron Fouchier

14.00 - 14.30 **Keynote Lecture**
Respiratory viruses: progress and gaps
Laurent Kaiser (Switzerland)

14.30 - 15.30 **Oral Presentations**

O01 Influenza B virus of the Yamagata-lineage was the cause of an epidemic 2017/18 influenza season in Denmark
R. Trebbien
Statens Serum Institut, Denmark

O02 Spanish enteroviruses surveillance in respiratory infections and molecular epidemiology of EV-D68, 2014-2018
R. Gonz​alez
Instituto de Salud Carlos III, Spain

O03 Molecular characterization of Influenza strains circulated in patients admitted to ICU during the 2017-18 season in Italy
A. Piralla
Fondazione IRCCS Policlinico San Matteo, Italy

O04 Dual-RNAseq enables full genome assembly of measles virus, minority-variant detection and host-pathogen interactions delineation
T. Karamitros
Hellenic Pasteur Institute, Greece

O05 Detailed analysis of influenza B virus infections diagnosed at the Leipzig University Hospital during three consecutive years
M. H​onemann
Leipzig University and University Hospital, Germany

Heine-Medin Award **O06** Optimization and collection efficiency of different air-samplers to collect infectious aerosolized respiratory viruses from the air
S. Herfst
Erasmus MC, The Netherlands

15.30 - 16.00 **Coffee Break**

16.00 - 17.30 **Session 2
Viruses in the immunosuppressed host**
Chair: Elisabeth Puchhammer-St​ockl, Fausto Baldanti

16.00 - 16.30 **Keynote Lecture**
New vaccines and antiviral drugs for CMV
Paul Griffiths (UK)

16.30 - 17.30 **Oral Presentations**

O07 Plasma levels of Torque Teno Virus in HIV-1 infected patients at diagnosis of infection and after one year under treatment
C. Pronier
CHU Pontchaillou & IRSET - INSERM UMR 1085 - University of Rennes 1, France

O08 Metagenomic virus sequencing of living donor-recipient kidney transplant pairs reveals JC Polyomavirus transmission
V. Kufner
University of Zurich, Switzerland

Scientific Programme

- O09** NKG2C Deletion is a Risk Factor for Human Cytomegalovirus-Viremia and Disease after Lung Transplantation
H. Vietzen
Medical University of Vienna, Austria
- O10** Pretransplantation BK polyomavirus genotyping by a Luminex immunoassay in donor-recipient pairs shows that infection after kidney transplantation is of donor origin
M.C.W. Feltkamp
Leiden University Medical Center, The Netherlands
- O11** Single measurements of TTV as a marker of long-term immunosuppression in renal transplantation patients
E. Gore
University of Groningen, The Netherlands
- O12** Cytomegalovirus (CMV)-Specific Polyfunctional T-Cell Responses after Liver Transplantation (LT) quantified by Intracellular Cytokine Staining (ICS)
F.X. López-Labrador
Conselleria de Sanitat & Instituto De Salud Carlos III, Spain

17.30 - 18.45 **Session 3** **Prevention / Vaccines**

Chair: Peter Coyle, Athanasios Tsakris

17.30 - 18.00 **Keynote Lecture** Vaccination - challenges in realizing their potential Mike Catchpole (ECDC)

18.00 - 18.45 **Oral Presentations**

- O13** Persistent systemic rotavirus vaccine infection in a child with X-linked SCID
T. Yoshikawa
Fujita Health University, Japan
- O14** Antiviral activity of Brincidofovir against Parvovirus B19
G. Gallinella
University of Bologna, Italy
- O15** Measles virus genotyping reveals two importations events during the measles outbreak (2017-8) in Greece.
E. Horefti
Hellenic Pasteur Institute, Greece

18.45 - 19.45 **Industry-Sponsored Symposium**

19.45 - 20.45 **Opening Ceremony - Welcome Addresses**

Prof. George Sourvinos, Chair of the 21st ESCV Annual Meeting
Prof. Javier Buesa, President of ESCV
Mrs Maria Stratigaki, Vice Mayor of the City of Athens
Mrs Elena Kountoura, Minister of Tourism

Opening Lecture
Prof. Harald zur Hausen (Nobel Laureate)
Prevention of Cancer: the Perspective of Identifications of Cancer-Linked Infections

20.45 **Welcome Reception**



Sunday 23rd September 2018



Scientific Programme

08.30 - 09.30 **Industry-Sponsored Symposium**

09.30 - 10.30 **Session 4
Viral Pathogenesis and Immune Responses**

Chair: Hans Hirsch, Mariet Feltkamp

09.30 - 10.00 **Keynote Lecture**

Using novel viruses and proteomics to understand the interaction between HCMV and the immune system
Richard Stanton (UK)

10.00 - 10.30 **Oral Presentations**

O16 Determining the mechanism of transport and excretion of Epstein-Barr virus encoded small RNAs from infected cells
G. Khan

United Arab Emirates University, United Arab Emirates

O17 Identification of an NK inhibitory function by an HCMV protein of the RL11 family

V.M. Vlachava

Cardiff University, United Kingdom

O18 Effect of viral genetic variability in Hepatitis C virus pathogenesis
I. Karakasiliotis

Democritus University of Thrace, Hellenic Pasteur Institute, Greece

10.30 - 11.00 **Coffee Break**

11.00 - 12.30 **Session 5
Emerging Viruses**

Chair: Marcus Panning, Heli Harvala

11.00 - 11.30 **Gardner Lectureship**

Emerging arboviruses in the Mediterranean region
Anna Papa (Greece)

11.30 - 12.30 **Oral Presentations**

O19 Cutavirus DNA in skin of cutaneous T-cell lymphoma and organ transplant patients but not in healthy adults

M. Söderlund-Venermo

University of Helsinki, Finland

O20 Development of *ex-vivo* ELISpot assay for the evaluation of DENV-specific T-cell response

I. Cassaniti

Fondazione IRCCS Policlinico San Matteo, Italy

O21 Diseases transmitted by *Aedes spp.* mosquitoes - Urgent prevention and response measures in Greece

A. Vakali

Hellenic Center for Disease Control and Prevention, Greece

O22 Severe encephalitis caused by mammalian 1 bornavirus

K. Korn

Universitätsklinikum Erlangen, Germany

12.30 - 14.00 **Lunch**

ESCV Council Meeting (including lunch)

14.00 - 15.00 **Industry-Sponsored Symposium**

15.00 - 16.00 **Industry-Sponsored Symposium**

16.00 - 17.30 **Session 6
Hepatitis Viruses**

Chair: Anne-Marie Roque-Afonso, Susanne Gjeruldsen Dudman

Scientific Programme



Monday 24th September 2018

- 16.00 - 16.30 **Keynote Lecture**
HEV infection in Europe
Jacques Izopet (France)
- 16.30 - 17.30 **Oral Presentations**
- O23** Prevalence of Occult Hepatitis B infection in chronic hepatitis C and Cryptogenic hepatitis Patients
B. Çakal
Istanbul University, Turkey
- O24** Evaluation of the detection and quantification of HBV RNA in serum as a potential biomarker in HBeAg-negative chronic hepatitis B virus (HBV) infection
E. Hadziyannis
National and Kapodistrian University of Athens, Greece
- O25** Hepatitis E infection in solid organ transplant recipients in Turkey
A.A. Sayiner
Dokuz Eylul University, Turkey
- O26** Hepatitis E infection as a secondary condition in hepatitis C patients and as a possible risk factor in the development of hepatocellular carcinoma
C. Crossan
Glasgow Caledonian University, UK
- 17.30 - 18.00 **Coffee Break**
- 18.00 - 19.30 **Session 7**
Congenital & Neonatal Viral Infections
Chair: Pamela Valley, Andreas Mentis
- 18.00 - 18.30 **Keynote Lecture**
New Aspects in prenatal and postnatal CMV infection
Klaus Hamprecht (Germany)
- 18.30 - 19.30 **Oral Presentations**
- O27** Functional impairment of CMV-reactive cellular immunity during pregnancy
L. Deml
Lophius Biosciences GmbH, Germany
- O28** Prolonged Parvovirus B19 DNAemia in pregnant women: Prevalence, comprehensive serological analysis and fetal complication risk
L. Weseslindtner
Medical University of Vienna, Austria
- O29** Cytomegalovirus DNAemia in Pregnant Women with High IgG Avidity Index; is it a Valuable Tool for Diagnosing Nonprimary Infections?
I. Karageorgou
Hellenic Pasteur Institute, Greece
- O30** Clinical, neuroimaging and audiological findings in young infants with congenital cytomegalovirus infection referred at neonatal hearing screening.
A. Vossen
Leiden University Medical Center, The Netherlands
- 19.30 - 21.00 **Poster Session (P001-P158)**



Scientific Programme

08.30 - 09.30 Industry-Sponsored Symposium

09.30 - 10.30 Session 8 Diagnostic Advances in Clinical Virology I / Point-of-Care Diagnostics

Chair: Annemiek van der Eijk, Nikos Spanakis

09.30 - 10.00 Industry Lecture Award

The virology lab of the future: Impact of Point of Care diagnostics
Eric Claas (The Netherlands)

10.00 - 10.30 Oral Presentations

O31 Rapid influenza A/B and RSV testing to improve outbreak management in long-term and acute care facilities

C. Lowe

Providence Health Care & University of British Columbia, Canada

O32 Interpretation software: is there an added value for users of in-house multiplex real time PCR based diagnostics?

K. Dierickx

OLVZ Aalst, Belgium

O33 Evaluation of Panther Fusion® Respiratory kit in a hospitalized population

M. Pichon

Infectious Agents Institute & National Reference Center for Respiratory Viruses, France

10.30 - 11.00 Coffee Break

11.00 - 12.30 Session 9 Viral Gastroenteritis / CNS infections

Chair: Javier Buesa, Alexandra Valsamakis

11.00 - 11.30 Keynote Lecture

Taking gastro-surveillance into 21st century
Thea Kølsen Fischer (Denmark)

11.30 - 12.30 Oral Presentations

O34 Etiology of Gastrointestinal Pathogens Causing Acute Gastroenteritis in Children from Kansas City, USA, 2011 to 2016

R. Selvarangan

Children's Mercy & University of Missouri-SOM, USA

O35 High viral shedding in hospitalized patients infected with emerging recombinant norovirus GII.P16-GII.2

S.K.C. Cheung

The Chinese University of Hong Kong, China

O36 Genetic diversity of noroviruses circulating in longitudinal birth cohorts in low-resource countries

J. Vinjé

CDC, USA

O37 Emergence of rotavirus G12 in a neonatal intensive care unit in Ankara

A. Altay-Kocak

Baskent University, Turkey

12.30 - 13.30 Lunch - Poster Session (P159-P318)

European Network for Non-Polio Enteroviruses (ENPEN)

Update to the collaborative activities

Heli Harvala and Thea Kølsen Fischer

13.30 - 14.30 Industry-Sponsored Symposium

14.30 - 15.30 Industry-Sponsored Symposium

Scientific Programme



Tuesday 25th September 2018

15.30 - 16.40 **Session 10**
HIV / Sexually transmitted viral infections

Chair: Svein Arne Nordbø, Elizaveta Padalko

15.30 - 15.55 **Keynote Lecture**

Human Antibodies in the treatment of viral infections
Florian Klein (Germany)

15.55 - 16.40 **Oral Presentations**

O38 How can next generation sequencing improve the surveillance of transmitted antiretroviral resistance?

J. Fonager

Statens Serum Institut, Denmark

O39 Adenosine causes read-through into the late region of the HPV16 genome in a guanosine-dependent manner

H. Yu

Lund University, Sweden

O40 "All-in-One" HIV-1 *pol*-PCR and Next-Generation-Sequencing for the analysis of drug resistant HIV-1 *pol* quaspecies

N. Lübke

Heinrich-Heine University, Germany

16.40 - 17.05 **Coffee Break**

17.05 - 18.15 **Session 11**
Diagnostic Advances in Clinical Virology II / Clinical Metagenomics

Chair: Hubert Niesters, Randall Hayden

17.05 - 17.30 **Keynote Lecture**

Metagenomics for pathogen detection in encephalitis
Judith Breuer (UK)

17.30 - 18.15 **Oral Presentations**

O41 Genotyping of enterovirus and adenovirus using next generation amplicon sequencing discloses frequent infections with two virus strains in children from the Norwegian MIDIA study

O. Cinek

Charles University, Czech Republic

O42 Results from metagenomic sequencing of clinical samples during 2016-2018

M. Lind Karlberg

Public Health Agency of Sweden, Sweden

O43 Implementing Next Generation Sequencing to Enhance Virological Surveillance of Influenza during the 2017/18 Season in Wales

C. Moore

Wales Specialist Virology Centre, United Kingdom

18.15 - 18.35 **ESCV General Assembly**

18.40 **Departure for the Greek Night Dinner**



Scientific Programme

08.30 - 09.30 **Industry Sponsored Symposium**

09.30 - 11.00 **Session 12
Viral Oncogenesis**

Chair: Paul Klapper, Paulo Paixão

09.30 - 10.00 **Keynote Lecture**

From HPV infection to carcinoma
Stina Syrjänen (Finland)

10.00 - 11.00 **Oral Presentations**

O44 Searching HPV genome for methylation sites involved in molecular progression to cervical precancer. Results from *E6*, *E7* and *UTR* genes
C. Kottaridi

National and Kapodistrian University of Athens, Greece

O45 Human endogenous retroviruses are overexpressed and demethylated in right colon cancer tissue, and packaged in plasma extracellular vesicles of colon cancer patients

M. Dolci

University of Milan, Italy

O46 Molecular characterization of human papilloma virus isolates from head and neck squamous cell carcinoma

R. Dhodapkar

Jawaharlal Institute of Postgraduate Medical Education and Research, India

O47 Analysis of Human Papillomavirus (HPV) 16 *E6*, *E7* genes and Long Control Region in cervical samples of Italian women

M. Martinelli

University of Milano-Bicocca, Italy

11.00 - 11.30 **Coffee Break**

11.30 - 12.00 **Industry Lecture Award**

Evolution of influenza viruses
E. Pariani

12.00 - 13.30 **Session 13
Clinical Syndromes**

Chair: Louis Kroes, Giorgio Gallinella

12.00 - 12.30 **Keynote Lecture**

Comprehensive testing for respiratory infections - making a difference to patient pathway
Kate Templeton (UK)

Scientific Programme



12.30 - 13.30

Oral Presentations

- O48** Frequency and clinical characteristics of Epstein-Barr virus (EBV), cytomegalovirus (CMV), human herpesvirus-6A (HHV-6A), HHV-6B, HHV-7 infections in children visiting emergency room (ER)
F. Hattori
Fujita Health University School, Japan
- O49** Fat embolism syndrome in sickle cell disease in association with acute parvovirus B19 infection
T. Lampejo
Guy's and St Thomas' NHS Foundation Trust, UK
- O50** Evaluating biochemical signatures of viral infections in the central nervous system
A. Bosworth
Public Health England, Birmingham Heartlands Hospital, UK
- O51** Detection of Parvovirus B19 DNA in Blood of Patients with Dilated Cardiomyopathy Not Compatible with Active or Recent Viral Infection
A. Russcher
Leiden University Medical Center, The Netherlands

13.30 - 14.00

Closing Remarks - Hand Over

(Presentation of the 22nd ESCV Meeting)

Wednesday 26th September 2018



Posters' Index / Poster Sessions

- P001** **In vitro inhibitory effect of pomegranate (*punica granatum* L.) peel extract and the correspond fractions on influenza virus replication**
Withdrawn by the author
- P002** **Point of care testing for the detection of influenza viruses: does speed compromise analytical performance?**
B. Vanmassenhove*, A. Hervent, L. Persijn, L. Vynckier, G. Alliet (Oostende, Belgium)
- P003** **Fifteen years of evolution of human respiratory syncytial virus subgroup A in Normandy, France.**
J. Moriceau, A. Vabret, J. Dina* (Caen, France)
- P004** **The Sigma-Virocult® specimen collection system is highly compatible with molecular syndromic panel-based testing of respiratory pathogens**
E. Xenaki*, A. Dermitzaki, N. Malliarakis, M. Stamataki, M. Ergazaki, G. Sourvinos (Heraklion, Greece)
- P005** **Influenza activity in Izmir, Turkey, October 1, 2017-February 20, 2018**
C. Cicek, M. Kayin, O. Altun Koroglu, E.U. Saz, F. Bacakoglu, H. Pullukcu, A. Zeytinoglu* (Izmir, Turkey)
- P006** **Adenoviral Respiratory Infections in Singapore**
C.C. Wong* (Singapore, Singapore), T.T. Nguyen, K.K. Coleman, A.W.L. Wong, S.C. Ang, P.K. Kian, T.K. Cheng, K.P. Chan, G.C. Gray, J.G. Low
- P007** **Epidemiological and molecular investigation of non-seasonal influenza-related viral respiratory infections in Northern Italy during four consecutive influenza seasons (2014-2018)**
C. Galli*, L. Pellegrinelli, G. Anselmi, V. Primache, S. Binda, E. Pariani (Milan, Italy)
- P008** **Respiratory syncytial virus surveillance in the Czech Republic: present and future**
L. Novakova*, H. Jirincova, D.Trnka, R. Limberkova, J. Kyncl, A. Nagy, M. Havlickova (Prague, Czech Republic)
- P009** **Phylogenetic characterization of human rhinoviruses from infants in Sarlahi, Nepal**
J. Kuypers* (Seattle, WA, USA), G. A. Perchetti, H. Y. Chu, A. S. Magaret, J. Katz, S. K. Khatry, S. C. LeClerq, K. R. Jerome, J. M. Tielsch, M. C. Steinhoff, J. A. Englund
- P010** **Detection and Characterisation of Measles Virus in Ireland 2017/2018**
Tuite G.*, Neary M., Cotter S., Ronayne A., De Gascun CF., Connell J. (Dublin, Ireland)
- P011** **Epidemiology of WUPyV among hospitalized children with respiratory tract infections in Beijing, China**
L.S. Zheng* (Beijing, China)
- P012** **Classifying viral respiratory infections through human transcriptome analysis on a rapid, easy-to-use, molecular platform**
R. J. Crisp* (Salt Lake City, UT, USA), C. Gritzen, T. Wilson, J. Nawrocki, M. Deneris, C. L. Baird, E. M. Ott, J. Jones, J. Bastar, H. Kim, S. House, D. Cohen, A. Leber, A. C. Hemmert
- P013** **Presence of respiratory viruses in ICU patients with community acquired-pneumonia (CAP): a one-year retrospective single center study**
M. Giry, B. Misset, D. Boyer, A. Baron, L. Lemée, J.C. Plantier, M. Gueudin* (Rouen, France)
- P014** **Estimating the burden of human coronaviruses during the last 5 seasons at National Influenza Centre Slovenia**
N. Berginc*, K. Prosenc (Maribor, Slovenia)
- P015** **Antiviral effect of an essential oil derived from three aromatic plants against viruses causing infections of the upper respiratory system**
M. Tseliou* (Heraklion, Greece), SA. Pirintsos, C. Lionis, E. Castanas, G. Sourvinos
- P016** **Unexpected dominance of influenza type B during the 2005/2006 and 2017/2018 epidemic seasons in the Czech Republic**
M. Havlickova, H. Jirincova, D. Trnka*, J. Kyncl, R. Limberkova, L. Novakova, A. Nagy (Prague, Czech Republic)
- P017** **Comparison of throat swabs, oral fluid collection devices (Oracol) and FTA® cards for the molecular detection and genotyping of measles virus**
B. Bankamp* (Atlanta, GA, USA), C. Sein, E. Pukuta Simbu, R. Anderson, E. Abernathy, M. Chen, K.A. Wannemuehler, D. Waku, E.N. Lopareva, J. P. Icenogle, P.A. Rota, J.L. Goodson
- P018** **Molecular detection of fifteen respiratory viruses in hospitalized children - first year results of four-year prospective study from Croatia**
S. Ljubin-Sternak* (Zagreb, Croatia), I. Ivković-Jureković, M. Mijac, I. Kale, D. Slacanac, B. Kolarić, A. Lukić-Gričić, J. Vraneš
- P019** **Etiology and seasonality of viral respiratory tract infections in Antalya, Turkey**
O.M. Parkan* (Antalya, Turkey), A.E. Daloglu, B.O. Peker, I. Saglik, O. Koyuncu Ozyurt, D. Mutlu, D. Colak
- P020** **Investigation of respiratory infections**

Posters' Index / Poster Sessions

- with the film Array RP in adults and children
 G. Chronopoulou*, C. Vossou, A. Kouki, E. Pagonidou (Athens, Greece)
- P021** **Rapid detection of respiratory pathogens with the ePlex multiplex platform**
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S. D'Arcangelo*, D. Bailey, A. Bown, E. Aarons, T. Brooks (Salisbury, UK)

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D. Guerendiain* (Edinburgh, UK), S. Malini, A. Donovan, W. Wong, S. Campbell, B. Conn, K. Cuschieri

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Faculty Index

B

Fausto Baldanti

Professor, Department of Clinical, Surgical, Diagnostics and Pediatric Sciences, University of Pavia, Italy Molecular Virology Unit, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy

Judith Breuer

Professor, Division of Infection and Immunity, University College London, London, United Kingdom

Javier Buesa

President ESCV, Professor, Department of Microbiology, School of Medicine, University of Valencia, Valencia, Spain

C

Mike Catchpole

Dr, Chief Scientist ECDC, Visiting Professor at Imperial College London and City University London, London, United Kingdom

Eric C.J. Claas

PhD, Molecular Medical Microbiologist, Department of Medical Microbiology, Leiden University Medical Centre, Leiden, The Netherlands

Peter Coyle

Professor, Department of Virology, Hamad General Hospital, Doha, Qatar

D

Susanne Gjeruldsen Dudman

Dr., MD, PhD, Senior Medical Officer, Head of Norwegian National Polio Enterovirus MMR Reference Laboratory, Department Vaccinopreventable Diseases, Norwegian Institute of Public Health, Oslo, Norway

F

Mariet Feltkamp

Dr., MD, PhD, Associate Professor of Medical Virology, Department of Medical Microbiology, Leiden University Medical Center, Leiden, The Netherlands

Ron A.M. Fouchier

Dr., PhD, Professor of Molecular Virology, Department of Viroscience and National influenza Center, Erasmus MC Rotterdam, The Netherlands

G

Giorgio Gallinella

Associate Professor in Microbiology, University of Bologna, Department of Pharmacy and Biotechnology, S. Orsola - Malpighi Hospital - Microbiology, Bologna, Italy

Paul D. Griffiths

MD, DSc, FRCPath, Professor, Centre for Virology, University College London Medical School, London, United Kingdom

H

Klaus Hamprecht

Professor, Institut für Medizinische Virologie und Epidemiologie der Viruskrankheiten, University of Tuebingen, Germany

Heli Harvala

Dr., PhD, MsC, MD, FRCPath, Consultant Medical Virologist, NHS Blood and Transplant, Colindale, London, United Kingdom

Randall T. Hayden

MD, Director, Clinical Pathology Laboratories, Director, Clinical and Molecular Microbiology, Department of Pathology, St. Jude Children's Research Hospital, Memphis, TN U.S.A.

Hans H. Hirsch

Professor, Department of Biomedicine, University of Basel, Basel, Switzerland

I

Jacques Izopet

Professor of Virology, Biology Institute - Toulouse University Hospital & INSERM UMR1043 / CNRS UMR5282, National Reference Center of Hepatitis E virus, Toulouse, France

K

Laurent Kaiser

Professor, Dr. Med., Head of the Division of Infectious Diseases, Geneva University Hospital, Laboratory of Virology & Geneva Centre for Emerging Viral Diseases, Geneva, Switzerland

Paul Klapper

Professor of Clinical Virology, Faculty of Biology, Medicine, and Health; Division of Infection, Inflammation and Respiratory Medicine, The University of Manchester, Manchester, United Kingdom

Faculty Index



Florian Klein

Professor, Institute of Virology, University Hospital of Cologne, Cologne, Germany

Thea Kølsen Fischer

Professor, Virology Surveillance and Research Section, Department of Microbiological Diagnostics and Virology, Statens Serum Institut, Copenhagen, Denmark

Louis Kroes

Professor of Medical Microbiology - Clinical Virology, Head of the Department of Medical Microbiology, Leiden University Medical Center (LUMC), Leiden, The Netherlands

M

Andreas F. Mentis

MD, PhD, Clinical Microbiologist, Head, Public Health Laboratories, Hellenic Pasteur Institute, Athens, Greece

N

Maria São José Garcia Alexandre (MSJ Nascimento)

Full Professor, Head, Microbiology Laboratory, Biological Sciences Department, Faculty of Pharmacy, University of Porto, Porto, Portugal

Hubert (Bert) G.M. Niesters

Prof. Dr., Medical Molecular Microbiologist, Full Professor in Medical Microbiology / Molecular Clinical Virology, The University of Groningen, University Medical Center Groningen, Groningen, The Netherlands

Svein Arne Nordbø

MD, Senior Consultant, Department of Medical Microbiology, St. Olavs Hospital, Trondheim University Hospital & Associate Professor, Department of Clinical and Molecular Medicine, Faculty of Medicine and Health Sciences, Norwegian University of Science and Technology (NTNU), Trondheim, Norway

P

Elizaveta Padalko

Professor/Lecturer in Virology, Head of Laboratories of Infectious Serology and Molecular Microbiology, Ghent University Hospital; Faculty of Medicine and Biomedical Sciences, Ghent University, Ghent, Belgium

Paulo Paixão

MD, PhD, Professor, Head of the Unit of Infection of the Nova Medical School / Faculdade de Ciências Médicas de Lisboa, Lisbon, Portugal

Marcus Panning

Prof. Dr. med., Senior Physician Diagnostics, Institute of Virology, Center for Microbiology, Virology and Hygiene, Freiburg, Germany

Anna Papa

Professor, Director of the Department of Microbiology, Medical School, Aristotle University of Thessaloniki, Thessaloniki, Greece

Elisabeth Puchhammer-Stöckl

Professor Dr., MD, Head, Center for Virology, Medical University of Vienna, Vienna, Austria

R

Anne-Marie Roque-Afonso

Professor of Virology, Head of Virology Department, Director of National Reference Centre for HAV, Hôpitaux Universitaires Paris Sud - Université Paris Sud - INSERM U1993, Villejuif, France



Faculty Index

S

George Sourvinos

Professor, Department of Clinical Virology, Medical School, University of Crete - Head, Laboratory of Clinical Virology, University Hospital of Crete, Greece

Nikos Spanakis

Associate Professor, Department of Microbiology, Medical School, University of Athens, Athens, Greece

Richard Stanton

Dr., Senior Lecturer, Cardiff University, Cardiff, United Kingdom

Stina Syrjänen

DDS, PhD, FDSRCSEd (hon), Professor and Head, Department of Oral Pathology and Radiology, Institute of Dentistry, Faculty of Medicine, University of Turku & Chief Physician (co-affiliation), Department of Pathology, University Hospital of Turku, Turku, Finland

T

Kate Templeton

Consultant Clinical Scientist, Head of Molecular Diagnostics, Royal Infirmary, Edinburgh - Honorary Senior Lecturer in Medical Microbiology, University of Edinburgh, Edinburgh, United Kingdom

Athanasios Tsakris

MD, PhD, FRCPath, Professor and Head of the Department of Microbiology Medical School National and Kapodistrian University of Athens, Athens, Greece

V

Pamela Vallely

Manchester Royal Infirmary, Virology, Manchester, United Kingdom

Alexandra Valsamakis

MD, PhD, Professor of Pathology, Director of Clinical Virology and Molecular Microbiology Laboratories, Division of Medical Microbiology, Department of Pathology, The Johns Hopkins Hospital, Baltimore, MD U.S.A.

Annemiek van der Eijk

MD, PhD, Medical Microbiologist, Head of Unit Clinical Virology, Department of Viroscience, Erasmus MC, Rotterdam, The Netherlands

Z

Harald zur Hausen

Nobel Laureate

M.D., D.Sc. (Hon), M.D.s (Hon), Deutsches Krebsforschungszentrum (German Cancer Research Center), Heidelberg, Germany

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Industry Symposia

Sunday 23rd September 2018

12.00 - 13.00 **GALENICA - OLIVOS SCIENCE**

Novel Natural Antiviral Combinations against upper respiratory infections: New Perspectives (in Greek language)

Prof Elias Castanas

Laboratory of Experimental Endocrinology, School of Medicine, University of Crete, Crete, Greece

Prof. Christos Lionis

Director of the Department of Social Medicine, School of Medicine, University of Crete, Crete, Greece

Prof. Stergios Pirintsos

Department of Biology, University of Crete, Heraklion, Crete, Greece, Botanical Garden, University of Crete, Rethymnon, Crete, Greece

Prof. George Sourvinos

Department of Clinical Virology, Medical School, University of Crete - Head, Laboratory of Clinical Virology, University Hospital of Crete, Greece



18.45 - 19.45 **QIAGEN**

Cutting-edge workflows and clinical outcomes in integrated molecular diagnostics

Importance of Ct values in clinical diagnostics: QIAstat-Dx Syndromic Testing vs routine methodology

Prof. Vincent Thibault

Head of Virology Lab, University Hospital of Rennes, France

Rapid and Fully Automated Implementation of LDTs on the NeuMoDx Molecular System

Sundu Brahmasandra

President and COO, NeuMoDx Molecular, USA



Monday 24th September 2018

08.30 - 09.30 **SIEMENS HEALTHINEERS**

Syndromic Multiplex Real-Time PCR: A Comprehensive Solution for Viral Diagnosis and Pathogens Surveillance

Chairman: Prof. George Sourvinos

Department of Clinical Virology, Medical School, University of Crete - Head, Laboratory of Clinical Virology, University Hospital of Crete, Greece

1. Syndromic testing for respiratory tract infections: Why epidemiology matters

Prof. Dr. med. Marcus Panning

Institute of Virology, Medical Center, University of Freiburg, Freiburg, Germany

2. Clinical value of multiplex PCR syndromic approach for the diagnosis of acute viral central nervous system infections

Prof. Anna Papa, MD, PhD

Head of the Department of Microbiology, Medical School, Aristotle University of Thessaloniki, Thessaloniki, Greece



Monday 24th September 2018

14.00 - 15.00 DIASORIN

Herpes Simplex Viral Infections: clinical overview and diagnostic implications

1. Herpes Virus Infections: A Clinical Overview

Prof. Matteo Bassetti

Infectious Disease Division, Santa Maria della Misericordia University Hospital, Udine, Italy

2. A New Comprehensive Solution for Molecular Detection of Herpes Simplex Virus Infections

Michelle Tabb, PhD

DiaSorin Molecular LLC, Cypress, CA USA

3. Molecular Diagnosis of Viral Meningoencephalitis with the DiaSorin Molecular Simplexa Solution: Experience of the French National Reference Center for Herpesviruses

David Boutolleau, PhD

University Hospital La Pitié-Salpêtrière - Charles Foix, National Reference Centre for Herpesviruses, Virology Department and Sorbonne Universités, Paris, France



15.00 - 16.00 BIOMÉRIEUX

Turning innovation into patient care: Benefits of rapid, Syndromic testing

15:00-15:05 Welcome Remarks

Chairman: Prof. Christine Ginocchio

Vice President, Scientific and Medical Affairs, BioFire Diagnostics, a bioMérieux company

15:05-15:25 How rapid pathogen identification impacts care in patients with suspected meningitis / encephalitis

Dr. Matthias Klein

Clinical Neurologist, Ludwig-Maximilians-University Munich, Klinikum Großhadern

15:25-15:40 A LEAN Point-Of-Impact respiratory test at the Emergency Department in a Tertiary Referral Hospital

Prof. Dr. H.G.M. Niesters, PhD

Director, Laboratory of Clinical Virology, University Medical Center Groningen, The Netherlands

15:40-16:00 BioFire® FilmArray® Respiratory and ME Panels in Clinical Molecular Diagnostics Laboratory - 8 years of experience

Ass. Prof. Dr. Darja Duh

Head of Laboratory for Clinical Molecular Diagnostics, NLZOH, Maribor





Industry Symposia

Tuesday 25th September 2018

08.30 - 09.30 ABBOTT MOLECULAR

Improving the diagnostic virology test journey - discover how Alinity m can transform your molecular lab

Dr. Michael Palm

Director of Scientific Affairs and Innovation, Abbott Molecular, Chicago, USA

Dr. Jens Dhein

Director Scientific Affairs EMEA, Abbott Molecular, Wiesbaden, Germany



13.30 - 14.30 VELA DIAGNOSTICS

1. HIV genotypic resistance testing in clinical practise using the Vela NGS platform

Jacques Izopet, Prof.

Chief of Virology Department, Institut Fédératif de Biologie CHU Toulouse, Toulouse, France

2. Verification of the 1st and 2nd version of the VELA HCV Genotyping NGS Assay

Samir Dervisevic, Dr.

Consultant Virologist, Norfolk and Norwich University Hospital, Great Britain

3. Preliminary Results of the new Sentosa HBV Genotyping and Resistance Assay

Robert Ehret, Dr.

Head Molecularbiologist, Medizinisches Infektiologiezentrum Berlin, Berlin, Germany

4. Clinical performance of a fully automated next-generation sequencing platform for HCV resistance testing

Stéphane Chevaliez, Prof., PhD

Head, Virology Unit CHU Mondor, Deputy Director, French National Reference Center for Viral Hepatitis B, C and delta, Créteil, France



14.30 - 15.30 ROCHE

Quantification of CMV and EBV DNA in transplant patients: Challenges and opportunities

Alexandra Valsamakis

MD, PhD, Professor of Pathology, Johns Hopkins University School of Medicine, Director, Molecular Microbiology and Clinical Virology Laboratories, The Johns Hopkins Hospital, Baltimore, MD, USA

David Navarro

MD, PhD, Professor of Microbiology, School of Medicine, Head of Division of Virology and Molecular Microbiology, Clinic University Hospital, Valencia, Spain



Wednesday 26th September 2018

08.30 - 09.30 **CEPHEID**

Virology Testing for Improved Patient Impact

1. Point of care testing for Flu/RSV in emergency department to manage winter outbreaks

Dr Eleni Nastouli

Consultant Virologist, University College Hospital London UK

2. New models of care for Hepatitis in hard to reach people

Dr Stéphane Chevaliez

Department of Virology & INSERM U841, Henri Mondor Hospital, University of Paris XII, Créteil, France

3. Simplifying HBV viral load testing and disease management

Dr Sara Uceda

Ospedale Maggiore Policlinico, University of Milan, Milan, Italy





The 2018 ESCV Awardees

Sunday 23rd September 2018

14.30 - 15.30 **Heine-Medin Award**



Dr. Sander Herfst
Erasmus MC Rotterdam, The Netherlands

Monday 24th September 2018

11.00 - 11.30 **Gardner Lectureship**



Prof. Anna Papa
Aristotle University of Thessaloniki, Thessaloniki, Greece

Tuesday 25th September 2018

09.30 - 10.00 **bioMérieux Award**



Dr. Eric Claas
Leiden University Medical Center, The Netherlands

Wednesday 26th September 2018

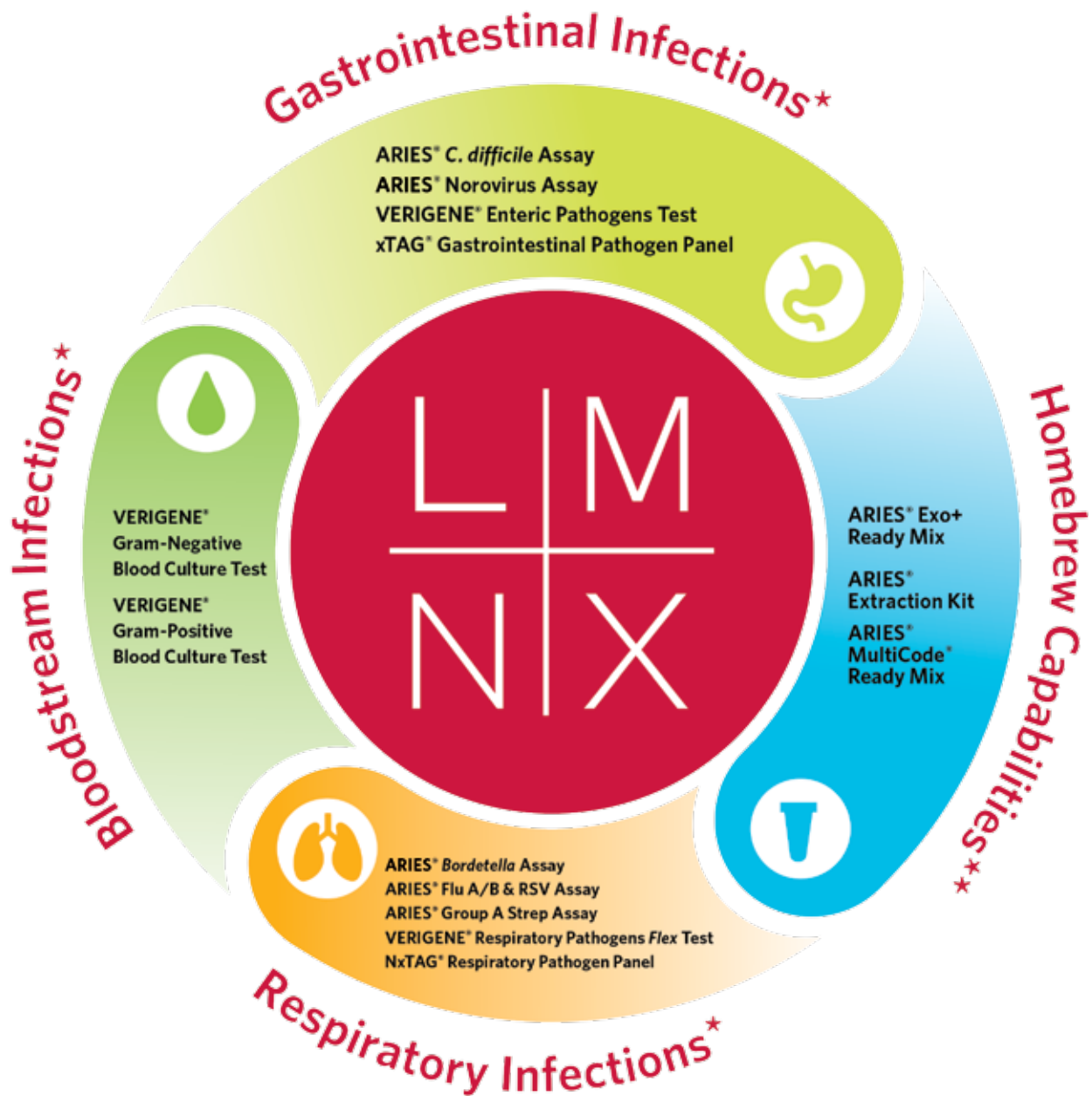
11.30 - 12.00 **Abbott Diagnostics Award**



Dr. Elena Pariani
Università degli Studi di Milano, Italy

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General Meeting Information

Registrations

Pre-registration counter

For participants who have already registered. Please have the confirmation e-mail sent by the Meeting Secretariat close at hand. If you still have an outstanding payment, you may settle your account in cash or by credit card (Visa & Mastercard will be accepted). We accept only EURO (€).

Onsite registration counter

For participants registering and paying their registration fees onsite: you will need to fill in an onsite registration form. Payment will be accepted in cash or by credit card (Visa & Mastercard will be accepted). We accept only EURO (€).

Onsite registration fees

ESCV Members	580,00 €
Non ESCV Members	650,00 €
Research Assistants / Trainees	510,00 €
Students	510,00 €
Retired Members	230,00 €
Accompanying Members	100,00 €
Exhibitors	100,00 €

Important Notes

- **Members** need to provide written proof of their membership when registering, otherwise non-member registration fees will apply. All ESCV Members should have financially settled their 2018 membership fee in order to benefit from the discounted registration fee
- **Research Assistants / Trainees** need to provide written proof of their position when registering, otherwise non-member registration fees will apply
- **Students** must be PhD candidates at the time of registration and need to provide written proof of their student status when registering, otherwise non-member registration fees will apply
- **Accompanying members** may not register for the event or participate in the scientific programme and may not be paid for by MedTech Europe Members.

Registration Fees for Delegates include:

- ⊠ Admission to all scientific sessions
- ⊠ Admission to the exhibition hall
- ⊠ The meeting material (meeting bag, final programme, badge)
- ⊠ Certificate of attendance
- ⊠ Welcome Reception on the first evening
- ⊠ Coffee-breaks during the meeting
- ⊠ Lunches during the meeting

Registration Fees for Exhibitors include:

- ⊠ Admission to all scientific sessions
- ⊠ Admission to the exhibition hall
- ⊠ Welcome Reception on the first evening
- ⊠ Coffee-breaks during the meeting
- ⊠ Lunches during the meeting

Registration Fees for Accompanying Members include:

- ⊠ Welcome Reception on the first evening
- ⊠ One (1) half day tour

General Meeting Information



Name Badges

Participants will receive their badges onsite at the registration desk. The meeting badge should be worn by all participants at all times during the meeting to ensure access to the relevant areas. This includes the scientific sessions, the coffee-breaks and lunches, the exhibition area and other areas of the meeting venue as well as the social activities. Only participants wearing their meeting badge will be admitted to the above mentioned areas and activities.

The following badge colors are in use at the Meeting:

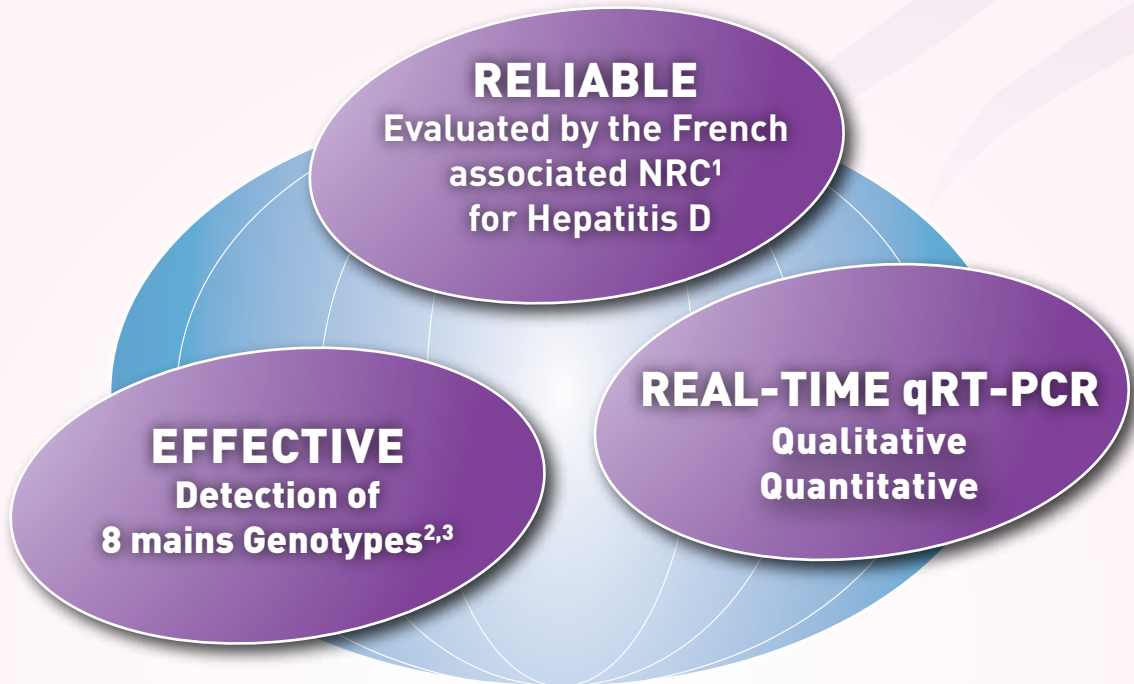
Speaker	Delegate	Chair
Industry	Visitor	

Secretariat & Exhibition Working Hours

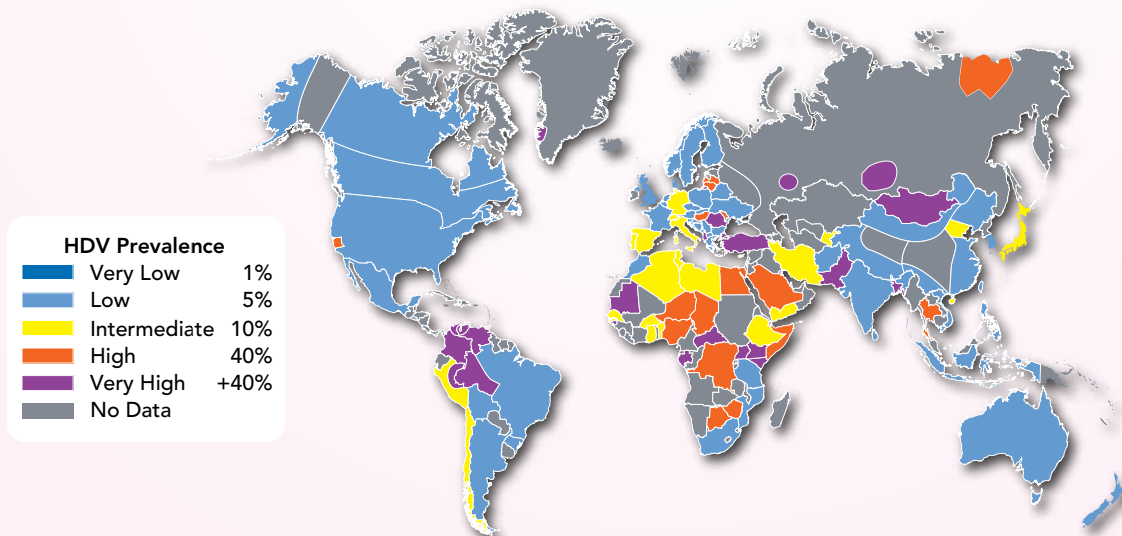
Days	Secretariat working hours	Exhibition working hours
Sunday 23 rd September 2018	11.00 - 20.45	12.00 - 19.45
Monday 24 th September 2018	08.00 - 21.00	09.00 - 19.30
Tuesday 25 th September 2018	08.00 - 18.30	09.00 - 18.15
Wednesday 26 th September 2018	08.00 - 14.00	09.00 - 13.00

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Hepatitis Delta is responsible for serious chronic hepatitis



Think **HDV** in all chronic **HBV** positive patients with any liver dysfunction



20 million people are infected with chronic viral Hepatitis D worldwide

1. Avicenne Hospital, Bobigny, France
2. Cf. Performances study indicated in the data sheet
3. F. Le Gal and all. Performance characteristics of a new consensus commercial Kit for Hepatitis D Virus RNA Viral Load quantification kit. JCM. 2016; DOI:10.1128/JCM.02027-16

Certificates Of Attendance

All registered delegates will receive a Certificate of Attendance.

Accreditation

The **21st Annual Meeting of the European Society for Clinical Virology, ATHENS, Greece, 23/09/2018-26/09/2018** has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME[®]) with **16** European CME credits (ECMEC[®]s).

Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME[®] credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME[®] credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME[®] for ECMEC[®]s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

EACCME[®] Credits

Each participant can only receive the number of credits he/she is entitled to according to his/her actual participation at the event once he/she has completed the **evaluation form**. Cf. criteria 9 and 23 of UEMS 2016.20.

Scientific Programme

Sunday 23 rd September 2018	4 ECMEC [®] s
Monday 24 th September 2018	5 ECMEC [®] s
Tuesday 25 th September 2018	4 ECMEC [®] s
Wednesday 26 th September 2018	3 ECMEC [®] s

The EACCME[®] awards ECMEC[®]s on the basis of 1 ECMEC[®] for one hour of CME with a maximum of 8 ECMEC[®]s per day. Cf. Chapter X of UEMS 2016.20.

Certificate of Accreditation

To obtain a Certificate of Accreditation, delegates must complete the evaluation form **only for the sessions that they attend** during the Meeting.

At the end of the Meeting, delegates are requested to return the completed evaluation form to the registration desk. Certificates of Accreditation will be sent by e-mail, within 60 days from the completion of the Meeting.



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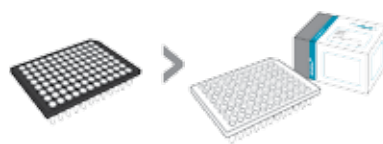


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Join us
for our
Lunch Snack:
Monday
12:30

WORKFLOW



AM16 Sample Preparation

PCR Setup

Cycler PCR

Analysis

Presentation Guidelines



General

The official language of the 21st ESCV Annual Meeting is **English**, therefore all types of presentations must be prepared and delivered in English. The time reserved for each presentation varies according to the presentation and session type.

Oral Presentations

Oral presentations are organized in sessions comprising of 3 - 6 presentations according to the topic of each session. Authors are kindly asked to follow the assigned time strictly, the remaining time for the presentation and discussion will be announced and managed by the session chair.

Supported Presentation formats

Please, prepare your presentation preferably using PowerPoint version 2010 or 2013, however versions 2007 and 2003 are also supported.

Supported file types

Presentation: PPT, PPA, PPTA, PPTX, PDF

Video: AVI, MPG, MKV, MOV, MP4, WMV

Audio: WMA, MP3, WAV

Please note that the presentations need to be prepared in 4:3 ratio.

Presentation preview desk

You will be assisted in the Presentation preview desk by the technicians, who will help you upload your presentation to the intranet. You will also be able to review your presentation and to verify that it has been transferred correctly to the network.

Your presentation must be uploaded as much in advance as possible, but no later than **TWO HOURS BEFORE** the beginning of the respective session. Presentations for an early morning session must be uploaded the day before. When uploading multimedia files, do not forget to double check all your video files and all links to these multimedia that files are functional.

In the Auditorium

Your presentation will be transferred directly to the Auditorium through the intranet.

Once the presentation is launched on the computer in the respective lecture room, you will advance your own slideshow using the remote control.

All speakers are requested to be present in the lecture room **10 MINUTES BEFORE** the session starts to meet with the session chair. Please, do not come at the last minute with your own computer into the lecture room: you will **NOT BE ABLE** to connect it. All presentations must be uploaded in the Presentation Preview desk beforehand.

In case any problems arise, there will be assistance staff in the Auditorium.



Poster Presentations

Dimensions of posters

- 📏 Portrait orientation
- 📏 A0 Poster size - 84,1 cm (width) x 118,9 cm (height)

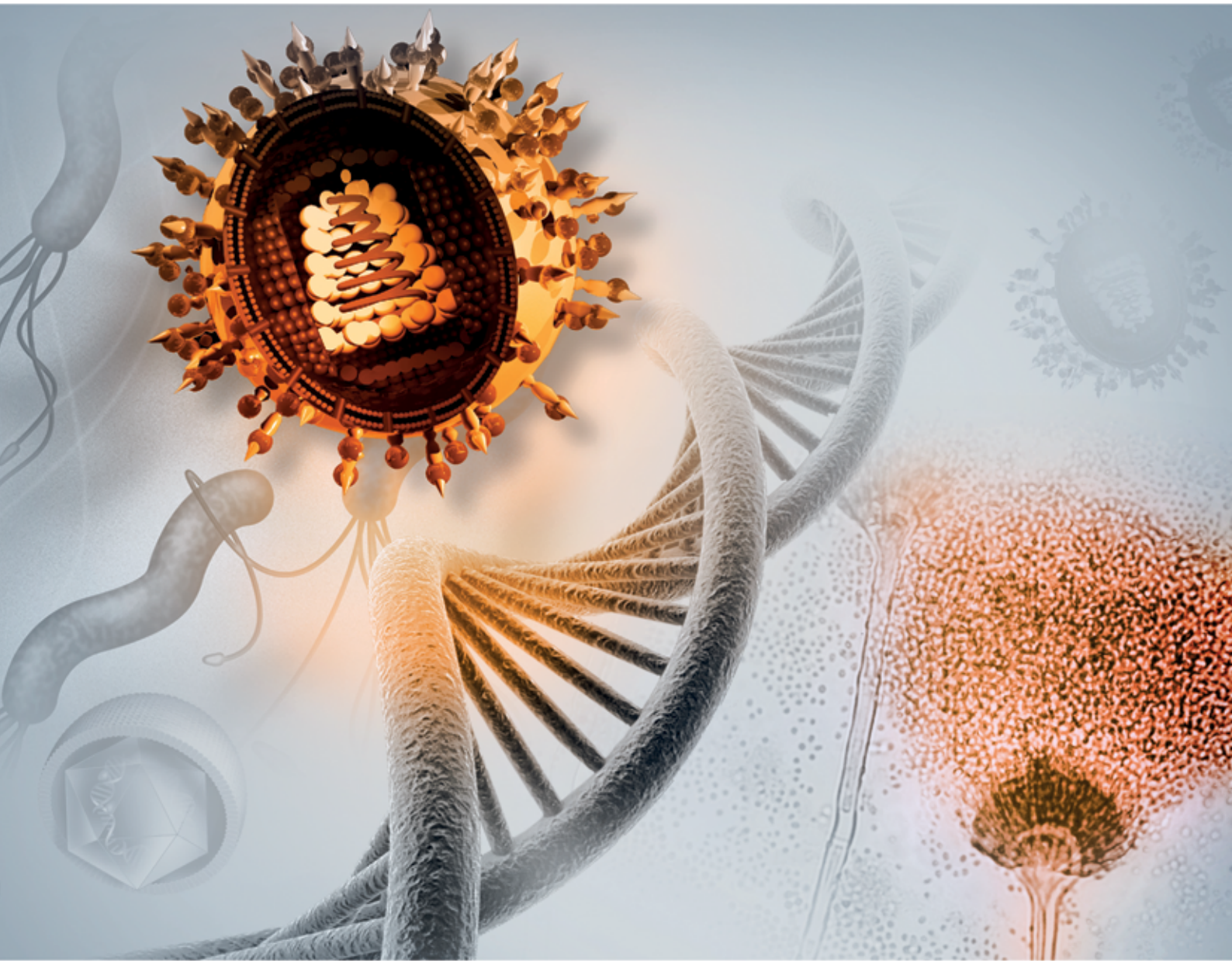
Posters on several sheets are not advised.

Session	Posters to be presented	Mounting time	Presentation time	Removal date & time
Respiratory Viruses	P001 - P055	Sunday 23 rd September from 11.00 to 20.30	Monday 24 th September 19.30 - 21.00	Monday 24 th September 21.00 to 22.00 and Tuesday 25 th September 08.00 to 09.00
Viruses in the immunosuppressed host	P056 - P103			
Prevention / Vaccines	P104 - P120			
Viral Pathogenesis and Immune Responses	P121 - P133			
Emerging Viruses	P134 - P152			
Viral Oncogenesis	P153 - P158			
Hepatitis Viruses	P159 - P199	Tuesday 25 th September from 09.30 to 12.00	Tuesday 25 th September 12.30 - 13.30	Up to Wednesday 26 th September, 13.00
Congenital & Neonatal Viral Infections	P200 - P217			
Diagnostic Advances in Clinical Virology I / Point-of-Care Diagnostics	P218 - P244			
Viral Gastroenteritis / CNS infections	P245 - P275			
HIV / Sexually transmitted viral infections	P276 - P295			
Diagnostic Advances in Clinical Virology II / Clinical Metagenomics	P296 - P310			
Clinical Syndromes	P311 - P318			

Important Notes:

- 📏 Each board will have a poster number printed and posters must be mounted to the corresponding poster board.
- 📏 Material for mounting the poster will be provided on site.
- 📏 Presenters are requested to stand by their poster during the presentation time allocated to them.
- 📏 Set-up, removal and storage of posters are the presenters' responsibility.
- 📏 Any posters remaining after the removal date & time will be disposed of by the conference staff and will not be stored.

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General Information

Venue

The **Zappeion Conference & Exhibition Center** has witnessed the history of Athens for the past 120 years. It has been a key site for some of the nation's most significant moments, and has always been integrally linked to the Olympic Movement. Even though its uses were varied, it has become a landmark in the Greek capital, thus fulfilling the donor's initial wishes.

Apart from the conference rooms (with translation systems in 9 foreign languages) there are also luxurious reception areas, providing wi-fi internet connection (speed up to 24 Mbps), capability of telephone and fax support, security and control systems (fire, electricity provision, alarm, internal and external television circuit), modern areas of hygiene and other facilities systems.

Access to the Zappeion Conference & Exhibition Center

From Athens International Airport:

By metro

Metro Line 3. Syntagma Square is the closest metro station to the Zappeion Conference & Exhibition Center (350 m)

By bus

Express bus X95 connects directly the Athens International Airport "El. Venizelos" to Syntagma Square (350 m)

Athens, the host city

Each year, more and more travelers are choosing Athens for their leisure and business travel all year round. There are several reasons; Athens offers a variety of things to see and do, and most of the times, under favourable weather conditions.

Athens' transportation network is user-friendly; there are numerous museums and archeological sites and hundreds of restaurants to satisfy every taste.

Surrounded by a lining of stunning seas and mountains, Athens is filled with gems just waiting to be discovered.

Located at the crossroads of three continents, the capital of Greece with an overall population of close to four million has often been the hub of many cultures. Characterized by a culture and people that are welcoming and hospitable, every visitor just feels at home.

Athens is also an ideal congress destination, combining state-of-the-art infrastructure, excellent congress facilities and easy access from all over the world with world-class cultural attractions, modern amenities, diverse entertainment and natural beauty.

Official Language

The official language of the 21st ESCV Annual Meeting is English.

Banking Facilities and ATMs

Banks in Athens are generally open from Monday to Friday, from 08:00 to 14:30. There are cash machines (ATMs) nearby. The closest one is 2 minutes walking distance from the meeting venue.

If you require additional information, please ask at the registration desk staff. They will be able to direct you to the closest bank.

Insurance, Liability





All participants are reminded that the ESCV 2018 Annual Meeting Organization (ESCV, PCOs and Meeting Venue) are not liable for any losses, accidents or damage to persons or private property. Participants and accompanying persons are strongly advised to make their own arrangements in respect to health, personal and travel insurance in their country of origin. Participation in all excursions, tours etc, is at personal risk.

General Information



In case of emergency

You can use the following numbers:

 Police	100
 Emergency Number	112
 First Aid	166
 Fire Department	199

Internet access / Wi-fi

Wireless internet is available in all areas at the conference venue during the conference time.

Mobile Phones

All participants are asked to switch mobile phones off or to silent mode during the scientific sessions.

Smoking

Smoking is not permitted in closed public areas, **including the conference venue and the atrium**, airports, hotels, restaurants, shops, or workplaces and is only allowed in specifically designated areas.

Video Recording

All keynote lectures will be video recorded. These will then be available free of charge for ESCV members as an E-learning program.

Dress code

The dress code for the conference, including the Welcome Reception and the Greek Night Dinner, is informal.

Time Zone

Greece is +2h GMT/UTC during standard time.

Electricity

In Greece the electrical current is 220V, AC (50 Hz). Electrical sockets comply with European regulations.

Currency

Since 2002, the currency used in Greece is the euro (€). One euro is divided up into 100 cents.

Weather

While the month of September in Athens is still quite warm, the summer heat starts to cool off as the fall season approaches. The average temperature this month is 24°C (75°F), while the average low drops to 19°C (66°F), and the average high is still a warm 28°C (82°F).

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Social Programme

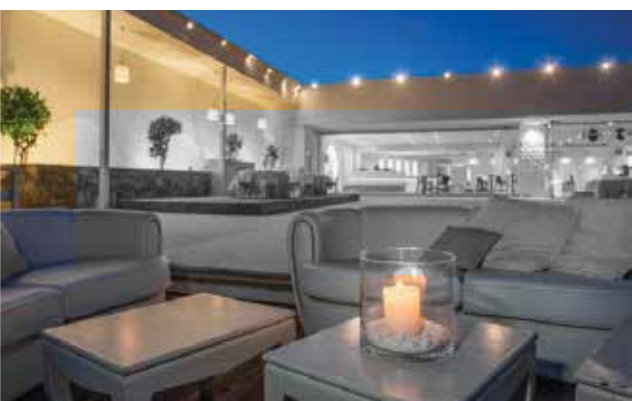


Welcome Reception

Sunday, 23rd September 2018

20.45

Atrium (Peristylon)
of Zappeion Conference & Exhibition Center



Greek Night Dinner

Tuesday, 25th September 2018

18.45

“Amaltheia, the Place”

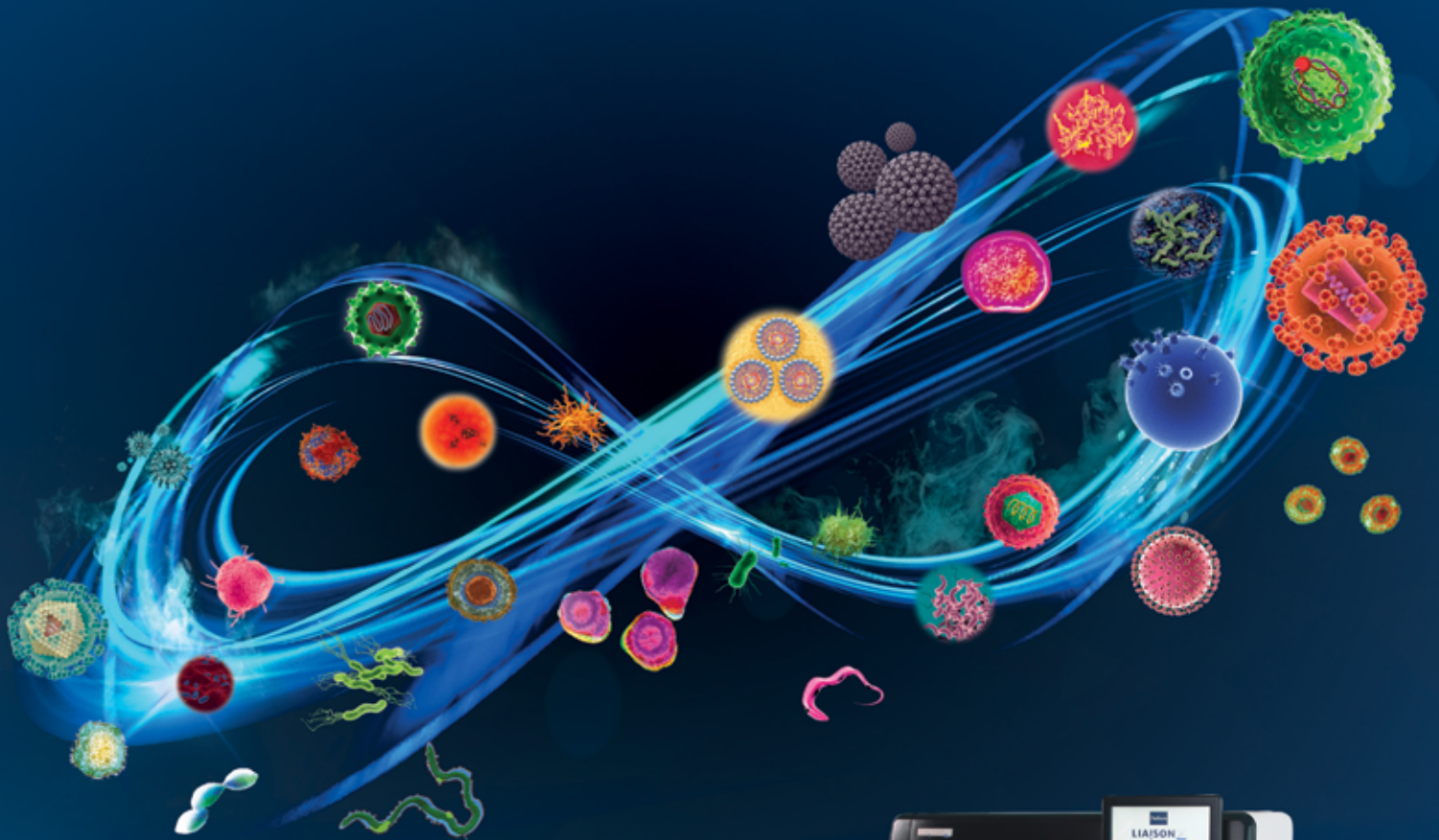


A short (20') bus ride from the Zappeion Conference & Exhibition Center through Poseidonos Avenue - the so-called “Athenian Riviera” - will bring us to one of the most idyllic sceneries of Attica : “Amaltheia, The Place”, a unique event venue located not by, but ON the beach, provides the perfect backdrop for a memorable Greek Night Dinner: traditional Greek *mezedes* (delicacies) and drinks, paired with popular folk dances, highlight the essence of Greek *philoxenia* (hospitality) and lift our spirits as the sun sets and the night lingers on...

Ticket (not included in the registration fee)*: **60 € per person** (subsidized cost)

* If you have already booked your Greek Night Dinner ticket online, you will receive it, together with your badge onsite at the registration desk

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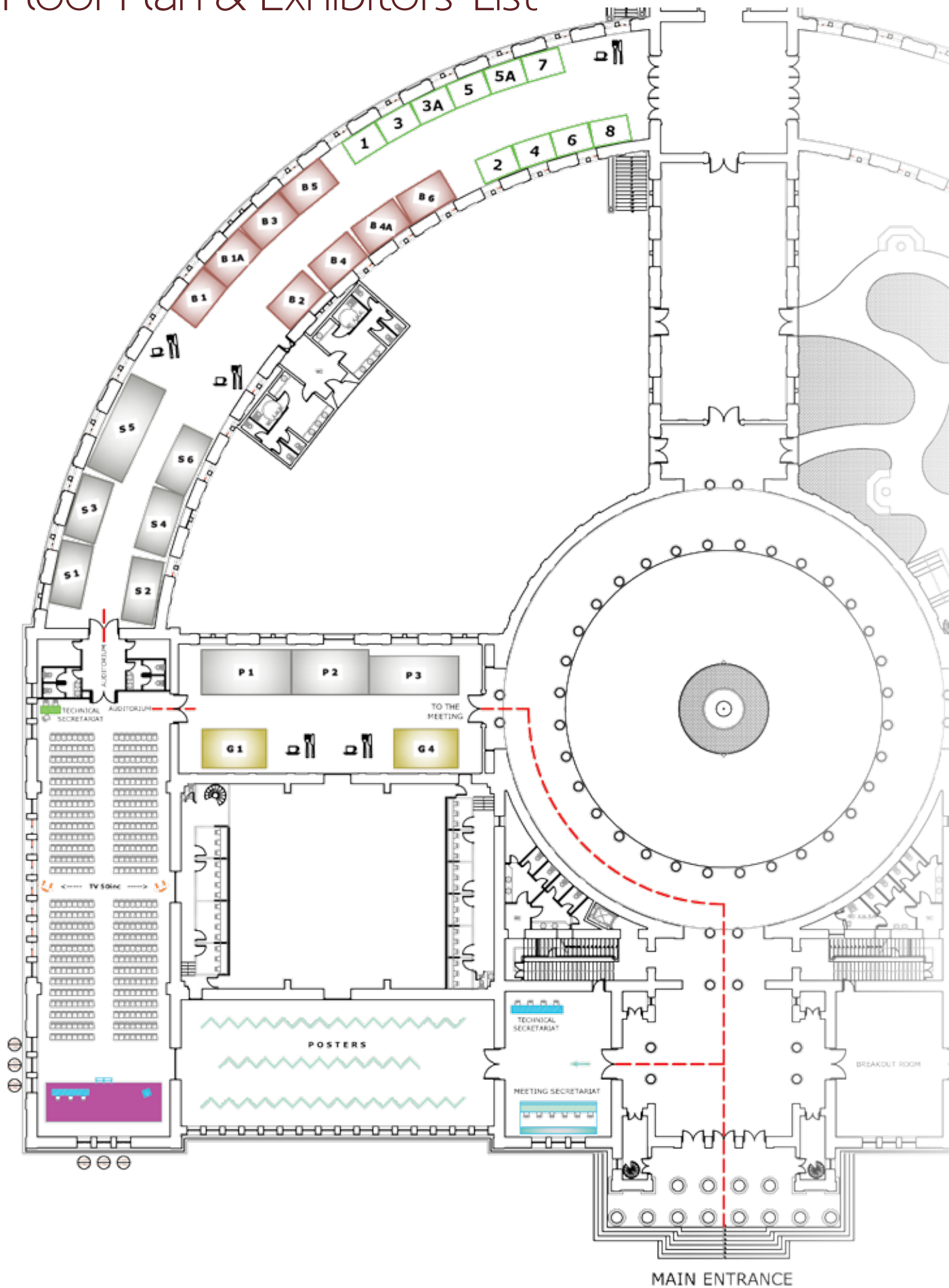
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* Projected release Q3 2016 ex US

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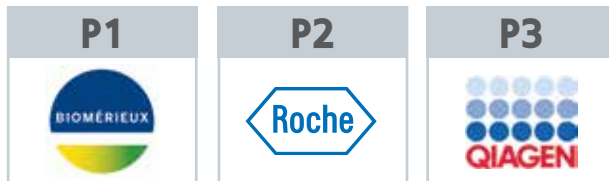


Floor Plan & Exhibitors' List



Floor Plan & Exhibitors' List

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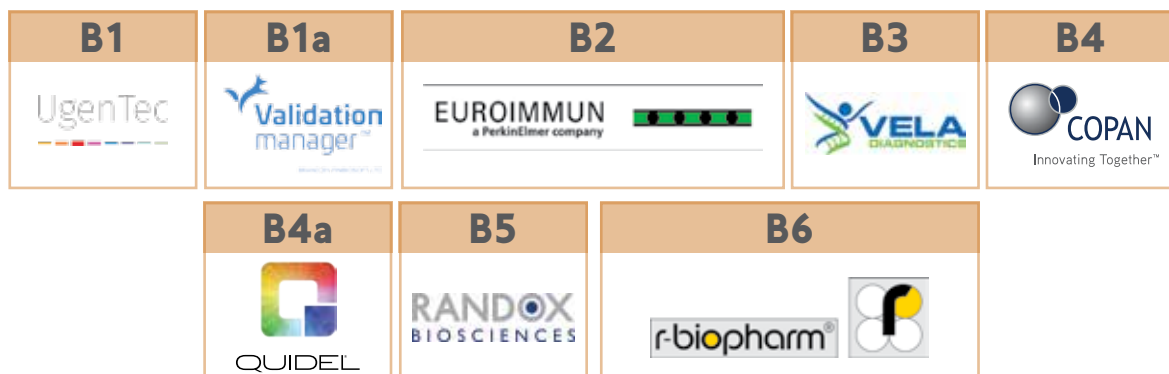
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 ce antigen, treponemal test, anti-HBc, productivity, complete, spots, support
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 early infant diagnosis, strategic, plasma separation card, HBV, timely, immunc
BsAg, trust, HIV-1 RNA, avidity, standardisation, HSCT, congenital, process optimisation, inr
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 , HIV-1/HIV-2 subtype determination, HTLV I/II, sustainability, solutions, **workflow**, your needs, a
 CV RNA, efficient solutions, HBV surface antigen, treponemal test, anti-HBc, productivity, comp
 ng flexibility, **HIV Duo**, clinically relevant, actionable results, integration, solid organ transplant
 ng-edge technology, toxoplasmosis, connectivity, HBeAg, HSV 1, LEAN methodology, turnaro



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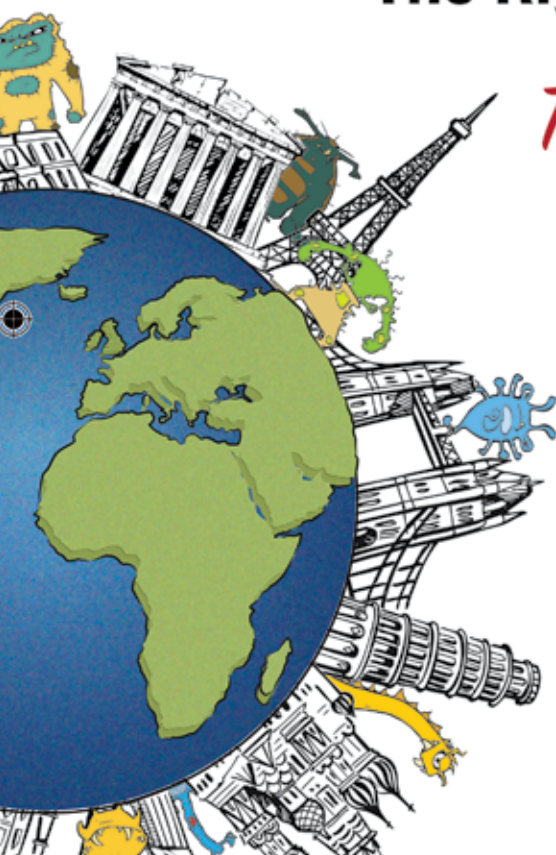
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