



The 9th International Conference on
L e g i o n e l l a

Rome, 26th - 30th September 2017



Auditorium Antonianum
Viale Manzoni, 1 - 00185
ROME

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WELCOME LETTER



Paola Borella

University of Modena and
Reggio Emilia, Modena,
Italy

Dear Participants,

It is our pleasure to welcome you to the 9th International Conference on *Legionella* in Rome, Italy, from the 26th to 30th of September 2017.

This year we will celebrate forty years since *Legionella pneumophila* was identified, after the first outbreak of Legionnaires' disease in Philadelphia in 1976.

Since then, we have learnt a lot about these bacteria, we have improved our capability to conduct appropriate epidemiological investigations, and thanks to geographical information analysis and typing methods, we are now able to better identify the source of infection.



Maria Luisa Ricci

Italian National Institute of
Health, Rome, Italy

We also have recognised the importance of appropriate risk assessment on water systems in order to rapidly apply the best control measures and adopt different disinfection procedures, being aware that there is not a single recipe. In fact, every situation must be thoroughly studied and every intervention must be tailored.

Knowledge on ecological niches of *Legionella* has been expanded. Moreover, the recent DNA sequencing technologies to monitor microbial population in water systems appear to be quite promising for a better understanding of behaviours devised by this intriguing bacterium to survive in the environment.

Regarding diagnostic methods, the introduction of urinary antigen detection has given a boost in detecting cases, but the development and validation of other fast and accurate molecular methods are needed.

The number of identified species is increasing day by day, and in addition to traditional procedures, integrated multi “omics” technologies help to clarify the molecular basis of pathogenesis and evolution of most of these species. However, a better understanding of the interaction between the bacterium and the host, with special reference to the population at risk, would be desirable.

We consider this International Conference a great opportunity to define state of the art about all the aspects concerning *Legionella*, and we do hope that new ideas for future researches and collaborative studies in this field will arise.

We warmly welcome you to Rome, the “Eternal” city. Here, the ancient Romans laid the foundations of their empire, leaving spectacular signs in culture, architecture, city planning, politics and laws, which survived to present day, leaving people coming from all over the world astonished.

The Local Organising Committee is willing to offer you the best hospitality in terms of location, accommodation and, last but not least, good food and the opportunity to choose among a number of guided trips in Rome and surroundings for you and your accompanying persons.

On behalf of the Conference organisers we sincerely welcome you to the 9th International Conference on *Legionella* 2017.

Paola Borella and Maria Luisa Ricci
Chairs, *Legionella* 2017



SCIENTIFIC COMMITTEE

Ashbolt Nicholas

University of Alberta, Alberta, Canada

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Yale University of Medicine, New Haven, United States of America

Stout Janet E.

Special Pathogens Laboratory, Pittsburgh, United States of America

Uldum Anker Søren

Statens Serum Institut, Copenhagen, Denmark

Zamboni Dario

University of São Paulo, São Paulo, Brazil

INVITED SPEAKERS

Berjeaud Jean-Marc

University of Poitiers, Poitiers, France

Buchrieser Carmen

Institut Pasteur, Paris, France

Cooley Laura A.

CDC's National Center for Immunization and Respiratory Diseases, Atlanta, United States of America

Edelstein Paul Herbert

University of Pennsylvania, Philadelphia, United States of America

Hadjichristodoulou Christos

University of Thessaly, Larissa, Greece

Hilbi Hubert

Institute of Medical Microbiology, University of Zürich, Zürich, Switzerland

Lee Susanne

Director Legionella Ltd, United Kingdom

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Maria Curie-Skłodowska University, Lublin, Poland

Pruden Amy

Virginia Tech, Blacksburg, United States of America

ORGANIZING COMMITTEE

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Roma III University, Rome, Italy



SOCIAL EVENTS

WELCOME COCKTAIL AT THE “ISTITUTO NAZIONALE DI STUDI ROMANI”

The Welcome Cocktail will be held on 26th of September, from 7.30 p.m. to 9.00 p.m., at The Istituto degli Studi Romani. The institute has its location in the former convent of Saints Bonifacio and Alessio, at the top of the Aventino hill, one of the most impressive hills of Rome. The walk (about 2.7 km), that divides the Auditorium Antonianum from the Cocktail venue, shows a view of the best monuments of the Eternal City. It begins from the Colosseum, it runs along the Palatine Hill to finally reach the Circus Maximus. Therefore, the journey from the Conference venue to the Istituto degli Studi Romani offers a precious and unique opportunity to immerse yourself in Roman history.

Transfer from Congress venue to “Istituto Studi Romani” with private bus.

The Istituto degli Studi Romani is in Piazza dei Cavalieri di Malta, 2, 00153 Rome.

<http://www.studiromani.it/html/sede.htm>



TOUR AT “VILLA DEI QUINTILI” AND GALA DINNER AT “VILLA DINO”

On September 28th at 5.45 p.m. it will be held a guided tour of Villa dei Quintili and afterwards the Gala Dinner at Villa Dino. Villa Dino, set within one of the most important archaeological parks in the world, including Villa dei Quintili and the Seneca Mausoleum, is among the largest and most prestigious villa of Rome. Embellished with a huge park, enriched with palm, olive and lemon trees and ancient monuments, Villa Dino offers a reality out of the ordinary.

Transfer from Congress venue to “Villa dei Quintili” and “Villa Dino” with private bus.

Villa dei Quintili is in Via Appia Nuova 1092, 00178 Roma.

Villa Dino is in Via Appia Antica 249/B, 00178 Roma.



SCIENTIFIC PROGRAMME

TUESDAY, SEPTEMBER 26TH, 2017

- 13:00-18:45 Registration and exhibition
- 16:15-17:00 Welcome address and conference opening
Paola Borella University of Modena and Reggio Emilia, Modena, Italy
Maria Luisa Ricci Italian National Institute of Health, Rome, Italy
Chairs, *Legionella* 2017 Organizing Committee
Giovanni Rezza Director of Department of Infectious Diseases, Italian National Institute of Health, Rome, Italy
Paolo Visca Department of Science - Roma Tre University FEMS delegate and SIMGBM Treasurer
Fausto Francia President of Italian Society of Hygiene
- 17:00-18:30 **SESSION 1 - GLOBAL TREND OF LEGIONNAIRES' DISEASE**
Chairs: **Giovanni Rezza** Director of Department of Infectious Diseases, Italian National Institute of Health, Rome, Italy
Valeria Gaia Swiss National Reference Centre for *Legionella*, Bellinzona, Switzerland
- 17:00-17:45 Legionnaires' Disease, a Brief History
Paul H. Edelstein (*Invited speaker*)
University of Pennsylvania, Philadelphia, United States of America
Lectio Magistralis
- 17:45-18:15 Legionnaires' Disease from a European Perspective
Birgitta de Jong (*Invited speaker*)
European Centre for Disease Prevention and Control, Stockholm, Sweden
- 18:15-18:45 A Watershed Moment: The Increasing Challenge of Legionnaires' Disease in the United States
Laura A. Cooley (*Invited speaker*)
Center for Disease Control, Atlanta, United States of America
- 19:30-21:00 Welcome Cocktail at the "Istituto Nazionale di Studi Romani"
<http://www.studiromani.it/html/sede.htm>

WEDNESDAY, SEPTEMBER 27TH, 2017

- 08:30-18:00 Registration and exhibition
- 08:30-10:30 **SESSION 2 - PATHOGENESIS, IMMUNOLOGY AND HOST CELL INTERACTIONS**
Chairs: **Carmen Buchrieser** Institute Pasteur, Paris, France
Dario Zamboni University of São Paulo, São Paulo, Brazil
- 08:30-09:00 Modulation of Membrane Dynamics and Cell Migration by *Legionella*
Hubert Hilbi (*Invited speaker*)
University of Zürich, Zürich, Switzerland
- 09:00-09:30 A New Approach to Identify *Legionella pneumophila* Effector Mutants with Distinct Virulence Phenotypes
Craig Roy (*Invited speaker*)
Yale University of Medicine, New Haven, United States of America
- 09:30-09:45 The Dot/Icm Type IV Secretion System Effector LtpM Defines a New Family of Modular Glycosyltransferases
Gunnar Neels Schroeder
Queen's University Belfast, Belfast, Northern Ireland
- 09:45-10:00 New Insights Into the *Legionella* Type 1 Secretion System
Hussein Kanaan
University of Lyon, Lyon, France



SCIENTIFIC PROGRAMME

- 10:00-10:15 *Legionella pneumophila* Modulates Mitochondrial Dynamics To Trigger Metabolic Repurposing of Infected Macrophages
Pedro Escoll
Institute Pasteur, Paris, France
- 10:15-10:30 Manipulation of Host Metabolism by *Legionella pneumophila* Effectors that Activate and Inhibit mTORC1
Justin A. De Leon
University of California, Berkeley, United States of America
- 10:30-11:00 Coffee Break
- 11:00-13:00 **SESSION 2 - PATHOGENESIS, IMMUNOLOGY AND HOST CELL INTERACTION (CONTINUED)**
Chairs: **Craig Roy** Yale University of Medicine, New Haven, United States of America
Carmen Buchrieser Institute Pasteur, Paris, France
- 11:00-11:30 Recognition of *Legionella* by Intracellular Receptors in Macrophages
Dario Zamboni (Invited speaker)
University of São Paulo, São Paulo, Brazil
- 11:30-12:00 The Role of Lipids in *Legionella*-Host Interaction
Marta Palusinska-Szys (Invited speaker)
Maria Curie-Skłodowska University, Lublin, Poland
- 12:00-12:15 ER Remodeling by the Large GTPase Atlastin (Sey1/Atl3) Promotes Vacuolar Growth of *Legionella pneumophila*
Bernhard Steiner
University of Zürich, Zürich, Switzerland
- 12:15-12:30 SnpL, a Nucleomodulin Effector Protein of *Legionella pneumophila* Targets Host Transcription Elongation Machinery
Shivani Pasricha
University of Melbourne, Melbourne, Australia
- 12:30-12:45 Structural Insights Into *Legionella* RidL-Vps29 Retromer Subunit Interaction Reveal Displacement of the Regulator TBC1D5
Kevin Bärlocher
University of Zürich, Zürich, Switzerland
- 12:45-13:00 When Life Gives You Lemons in the Form of Oxidants...: A Peek Into the Molecular Underpinnings of How *Legionella* Copes with Oxidative Stress in Water
Nilmini Mendis
McGill University, Montreal, Canada
- 13:00-14:00 Lunch
- 14:00-15:30 **POSTER SESSION 1 - ROOMS EXHIBITION AREA**
• PATHOGENESIS AND IMMUNOLOGY • GENETICS AND GENOMICS
- 15:30-16:45 **SESSION 3 - GENETICS AND GENOMICS**
Chairs: **Hubert Hilbi** University of Zürich, Zürich, Switzerland
Sophie Jarraud National Reference Center of *Legionella*, University of Lyon, Lyon, France
- 15:30-16:00 Molecular Mimicry of Eukaryotic Proteins, a Main Virulence Strategy of *Legionella*
Carmen Buchrieser (Invited speaker)
Institute Pasteur, Paris, France
- 16:00-16:15 Retroelement-Guided Protein Diversification in *Legionella pneumophila*
Diego Arambula
University of California, Los Angeles, United States of America



SCIENTIFIC PROGRAMME

- 16:15-16:30 Genetics of Widely Distributed Natural Transformability in *Legionella pneumophila* Clinical Isolates
Xavier Charpentier
International Centre of Research and Infectology, University of Lyon, Lyon, France
- 16:30-16:45 Evolution of Host-Adaptation in the Bacterial Order *Legionellales*
Lionel Guy
Uppsala University, Uppsala, Sweden
- 16:45-17:15 Coffee Break
- 17:15-18:00 **SESSION 3 - GENETICS AND GENOMICS (CONTINUED)**
Chairs: **Jacob Moran-Gilad** National Microbiology Focal Point & Head of Microbiology Cooperation, Jerusalem, Israel
Christopher Ginevra Centre National de Référence des légionelles, Lyon, France
- 17:15-17:30 Genomic Evolutionary History of Legionnaires' Disease in Scotland
Bryan Wee
University of Edinburgh, Edinburgh, United Kingdom
- 17:30-17:45 The *Legionella* Genus Genome: a Global View of the Genus Evolution
Laura Gomez-Valero
Institute Pasteur, Paris, France
- 17:45-18:00 Whole Genome Sequence Analysis of the *Legionella pneumophila* Population Within the Water System of a Large Occupational Building
Victoria Chalker
Public Health England, London, United Kingdom

THURSDAY, SEPTEMBER 28TH, 2017

- 08:15-16:15 Registration and exhibition
- 08:15-09:15 **SESSION 4 - CLINICAL ASPECTS, TREATMENT, ROUTE OF EXPOSURE AND HOST RELATIONSHIP**
Chairs: **Laura A. Cooley** Center for Disease Control, Atlanta, United States of America
Maria Cristina Rota Italian National Institute of Health, Rome, Italy
- 08:15-08:45 Clinical Characteristics of *Legionella* Infection
Paul H. Edelstein (Invited speaker)
University of Pennsylvania, Philadelphia, United States of America
- 08:45-09:00 Route of Exposure to Aerosol and Legionnaires' Disease or Pontiac Fever
Richard Bentham
Flinders University, Adelaide, Australia
- 09:00-09:15 *Legionella* Aerosols from Shower to an Ex Vivo Human-Porcine Respiratory Model
Severine Allegra
University of Lyon, Lyon, France
- 09:15-09:45 Coffee Break
- 09:45-11:45 **SESSION 5 - DIAGNOSIS AND TYPING**
Chairs: **Søren Anker Uldum** Statens Serum Institut, Copenhagen, Denmark
Christian Lück Reference Laboratory Legionella, Dresden, Germany
- 09:45-10:15 Diagnosis and *Legionella* Typing of Atypical Forms of Legionellosis
Sophie Jarraud (Invited speaker)
National Reference Center of *Legionella*, University of Lyon, Lyon, France



SCIENTIFIC PROGRAMME

- 10:15-10:45 The Future of *Legionella* Typing in the Genomics Era
Jacob Moran-Gilad (*Invited speaker*)
National Microbiology Focal Point & Head of Microbiology Cooperation, Jerusalem, Israel
- 10:45-11:00 LegioTyper: a Fully Automated and Rapid Detection Method for Serotyping of *Legionella pneumophila*
Anne Gründel
Dresden University of Technology, Dresden, Germany
- 11:00-11:15 The Average Nucleotide Identity Index is a Taxonomic Tool That Can Also Be Useful for Determining the Epidemiological Relationship Between *Legionella pneumophila* Genomes
Maria José Figueras
University Rovira i Virgili, Reus, Spain
- 11:15-11:30 Utility of Rapid Techniques in the Legionnaires' Disease Outbreak in Manzanares, Spain, December 2015-February 2016
Juan Carlos Montero
Regional Public Health Laboratory - Health Sciences Institute Talavera de la Reina, Spain
- 11:30-12:30 **SESSION PROUDLY SPONSORED BY IDEXX**
Comparing Modern and Traditional Culture-Based Methods for Detection of *Legionella* and the Significance of Quantification of *Legionella Pneumophila* Vs. All *Legionella* Species
- 11:30-11:35 Welcome to participants and Introduction to Legiolert
Dan Broder
Staff Scientist at IDEXX, Portland, Maine, United States of America
- 11:35-11:45 Performance of Legiolert vs. ISO 11731-2:2004 in German Potable Waters
Martin Exner
University of Bonn, Bonn, Germany
- 11:45-11:55 Performance of Legiolert vs. ISO 11731:1998 in Italian Waters
Maria Luisa Ricci
Italian National Institute of Health, Rome, Italy
- 11:55-12:30 **ROUND TABLE DISCUSSION:**
The Merits and Concerns Associated with Exclusive Detection of *L. Pneumophila* in Conjunction with a Water Safety Plan
Participants: **Martin Exner, Maria Luisa Ricci, Amy Pruden, Nicholas Ashbolt**
- 12:30-13:30 Lunch
- 13:00-14:30 **POSTER SESSION 2 - ROOMS EXHIBITION AREA**
• EPIDEMIOLOGY AND SURVEILLANCE • OUTBREAKS INVESTIGATION AND CASE REPORT
• CLINICAL ASPECTS AND TREATMENTS • DIAGNOSIS AND TYPING
- 14:30-16:15 **SESSION 6 - SURVEILLANCE AND OUTBREAK INVESTIGATIONS**
Chairs: **Pedra Brandsema** Centre for Infectious Disease Control, National Institute for Public Health and the Environment, Bilthoven, The Netherlands
Carmen Pelaz Institute of Health Carlos III, Majadahonda, Madrid, Spain
- 14:30-14:45 Legionnaires' Disease from the Other Side of the World: the New Zealand Perspective
David R. Murdoch
University of Otago, Christchurch, New Zealand
- 14:45-15:00 A National Cross-Sectional Study to Uncover the Hidden Burden of Legionnaires' Disease: The LegiNZ Study
David R. Murdoch
University of Otago, Christchurch, New Zealand



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- 15:00-15:15 Community-Acquired Cases of Legionnaires' Disease: the Proportion Technically Preventable by Applying the German Drinking Water Ordinance?
Udo Buchholz
Robert Koch Institute, Berlin, Germany
- 15:15-15:30 *Legionella pneumophila* in the Flint Water Supply: A Molecular Epidemiology and Virulence Assessment
Michele Swanson
University of Michigan, Ann Arbor, United States of America
- 15:30-15:45 Spatial Distribution of Legionellosis at the Small Area Level in the City of Barcelona: 2000-2016
Pau Gallés
Public Health Agency of Barcelona, Barcelona, Spain
- 15:45-16:00 Factors Associated With the Occurrence of Further Cases in Accommodations Associated With a Cluster of Travel-Associated Legionnaires' Disease Cases After Implementation of Control Measures
Emmanuel Robesyn
European Centre for Disease Prevention and Control, Stockholm, Sweden
- 16:00-16:15 Epidemiology and Microbiology of Recurrent Accommodation Sites Implications for Surveillance and Prevention
Sebastian Crespi Rotger
Biolinea Int., Palma de Mallorca, Spain
- 16:45-00:30 Tour of "Villa dei Quintili" and Gala Dinner at "Villa Dino"

FRIDAY, SEPTEMBER 29TH, 2017

- 08:15-19:30 Registration and exhibition
- 08:15-10:00 **SESSION 7 - ECOLOGY OF *LEGIONELLA* AND INTERACTION WITH ENVIRONMENTAL RESERVOIRS**
Chairs: **Alexander Kirschner** Medical University Vienna, Vienna, Austria
David R. Murdoch University of Otago, Christchurch Christchurch, New Zealand
- 08:15-08:45 The Original Cat and Mouse Interplay: With Picky Amoebae and Persistent *Legionella pneumophila*
Nicholas Ashbolt (Invited speaker)
University of Alberta, Edmonton, Canada
- 08:45-09:15 Natural Antimicrobial Substances to Control Proliferation of *Legionella pneumophila*
Jean Marc Berjeaud (Invited speaker)
University of Poitiers, Poitiers, France
- 09:15-09:30 Survival Patterns and Virulence of Viable but Non-Culturable *Legionellae* Induced by Starvation
Alexander Kirschner
Medical University of Vienna, Vienna, Austria
- 09:30-09:45 *Legionella pneumophila* Prevents Cell Division and DNA Replication of *Acanthamoeba Castellanii*
Ascel Samba-Louaka
University of Poitiers, Poitiers, France
- 09:45-10:00 Temperature Induced Viable but Non-Culturable *Legionella pneumophila* Cells are Virulent Against Amoebae and Macrophage-Like Cells
Silvia Cervero-Aragó
Medical University of Vienna, Vienna, Austria
- 10:00-10:30 Coffee break



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- 10:30-12:00 **SESSION 8 - *LEGIONELLA* DETECTION AND DIFFUSION IN THE ARTIFICIAL RESERVOIRS**
Chairs: **Nicholas Ashbolt** University of Alberta, Edmonton, Canada
Susanne Lee *Legionella* LTD., United Kingdom
- 10:30-11:00 *Legionella* Colonization of Water Systems Aboard Passenger Ships and Differences with Accommodation Sites (Hotels Etc)
Christos Hadjichristodoulou (Invited speaker)
University of Thessaly, Larissa, Greece
- 11:00-11:30 *Legionella* Detection in Environments and Their Impacts on the Occurrence of Legionellosis in Japan
Kura Fumiaki (Invited speaker)
National Institute of Infectious Diseases Tokyo, Japan
- 11:30-11:45 Prevalence and Diversity of *Legionella* in US Cooling Towers
Brian H. Raphael
Centers for Disease Control and Prevention, Atlanta, United States of America
- 11:45-12:00 Identification of Cooling Tower Microbiota Supporting the Growth of *Legionella pneumophila*
Sebastien P. Faucher
McGill University, Montréal, Canada
- 12:00-13:00 **SESSION PROUDLY SPONSORED BY PALL**
Can *Legionella* be controlled by engineering measures?
Chair & welcome and opening
Martin Exner (Invited speaker)
University of Bonn, Bonn, Germany
- 12:00-12:30 Compliance with Drinking Water System Regulation: The German Approach
Roland Suchenwirth
Lower Saxony Health Authorities, Hannover, Germany
- 12:30-13:00 Technical prerequisites for a safe Drinking Water System for *Legionella*
Stefan Pleischl
University of Bonn, Bonn, Germany
- 13:00-14:00 Lunch
- 13:30-15:30 **POSTER SESSION 3 - ROOMS EXHIBITION AREA**
• MISCELLANEUS • MICROBIAL ECOLOGY • PREVENTION AND CONTROL
- 14:00-14:30 **ESGLI BUSINESS MEETING**
- 15:30-17:15 **SESSION 9 - PREVENTIVE AND CONTROL STRATEGIES**
Chairs: **Paola Borella** University of Modena and Reggio Emilia, Modena, Italy
Sebastian Crespi Rotger Biolinea, Palma de Mallorca, Spain
- 15:30-16:00 The Evaluation of Mandatory *Legionella* Environmental Surveillance in Healthcare Facilities in Taiwan: Clinical and Environmental Perspectives
Yusen Eason Lin (Invited speaker)
National Kaohsiung Normal University, Kaohsiung City, Taiwan
- 16:00-16:30 Controlling *Legionella* in Building Water Systems: How Does Monochloramine Measure Up?
Janet E. Stout
Special Pathogens Laboratory, Pittsburgh, United States of America
- 16:30-16:45 Corrosive Effect on Various Pipe Materials Following Different Treatments for *Legionella* Spp Control in Hospital Water Systems
Isabella Marchesi
University of Modena and Reggio Emilia, Modena, Italy



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- 16:45-17:15 **Sponsored presentation (Grundfos) Experiences in-situ Prepared Chlorine Dioxide in *Legionella* Treatment**
Michael Skovgaard
Senior Manager, Global Programs GPMA Dosing & Disinfection
- 17:15-17:45 Coffee Break
- 17:45-19:00 **SESSION 9 - PREVENTIVE AND CONTROL STRATEGIES (CONTINUED)**
Chairs: **Janet E. Stout** Special Pathogens Laboratory, Pittsburgh, United States of America
Yusen Eason Lin National Kaohsiung Normal University, Kaohsiung City, Taiwan
- 17:45-18:00 A Multicenter Study on *Legionella* Air Contamination in Italian Healthcare Facilities: Comparison of Different Sampling Methods
Osvelda De Giglio
University of Bari, Bari, Italy
- 18:00-18:15 Maxi Impact of Temperature, Copper and Silver Exposure on the Viability and Recovery of Clinical and Environmental Strains of *Legionella pneumophila*
Michèle Prévost
Polytechnique Montréal, Montréal, Canada
- 18:15-18:30 Prevention and Control of *Legionella* spp. Colonization in Dental Units
Beatrice Casini
University of Pisa, Pisa, Italy
- 18:30-18:45 *Legionella* Colonization Of Hotel Water Supply Systems In Touristic Places Of Greece: Associations With System Characteristics and Physicochemical Parameters
Maria A. Kyritsi
Department of Medicine University of Tessaly, Larissa, Greece
- 18:45-19:00 Risk Assessment of *Legionella* in Hospital Washbasins: Water and Aerosol
Pasqualina Laganà
University of Messina, Messina, Italy
- 19:00-19:30 **ROUND TABLE:**
discussion on the topics (critical aspects, pros and cons, etc.) presented in the session of the day



SCIENTIFIC PROGRAMME

SATURDAY, SEPTEMBER 30TH, 2017

- 08:30-13:30 Registration and exhibition
- 08:30-11:00 **SESSION 10 - LEGIONELLA GUIDELINES IN DIFFERENT COUNTRIES**
Chairs: **Birgitta de Jong** European Centre for Disease Prevention and Control, Stockholm, Sweden
Maria Luisa Ricci Italian National Institute of Health, Rome, Italy
- 08:30-09:00 European *Legionella* Guidelines
Susanne Lee (*Invited speaker*)
Legionella LTD., United Kingdom
- 09:00-09:30 U.S. Guidance and Standards
Janet E. Stout (*Invited speaker*)
Special Pathogens Laboratory, Pittsburgh, United States of America
- 09:30-10:00 The German Experiences with *Legionella* Risk Regulation
Martin Exner (*Invited speaker*)
University of Bonn, Bonn, Germany
- 10:00-10:20 *Legionella* Guidelines in the Russian Federation:
Harmonization in Accordance to International Standards
Igor Tartakovskiy
Gamaleya Research Center of Epidemiology and Microbiology, Moscow, Russia
- 10:20-10:40 *Legionella* Regulation in Australia
Richard Bentham
Flinders University, Adelaide, Australia
- 10:40-11:00 Italian *Legionella* Guidelines: a Special Focus on Dental Unit Waterlines
Maria Luisa Ricci
Italian National Institute of Health, Rome, Italy
- 11:00-11:30 Coffee break
- 11:30-13:30 **SESSION 11 - CHALLENGES OF LEGIONELLA AND FUTURE PERSPECTIVES**
Chairs: **Paul H. Edelstein** University of Pennsylvania, Philadelphia, United States of America
Janet E. Stout Special Pathogens Laboratory, Pittsburgh, United States of America
- 11:30-12:00 Advancing a Framework for Prebiotic/Probiotic Control of *Legionella*
in Distribution Systems and Building Plumbing
Amy Pruden (*Invited speaker*)
Virginia Tech in Blacksburg, Virginia, United States of America
- 12:00-12:30 Technology Advancement Supporting *Legionella* Control in Dubai
Redha H. Salman
Health and Safety Department-Dubai Municipality, Dubai UAE
- 12:30-13:00 The European Perspectives of *Legionella* Surveillance and Control
Valeria Gaia (*Invited speaker*)
Swiss National Reference Centre for *Legionella*, Bellinzona, Switzerland
- 13:00-13:30 Presentation of *Legionella* 2021
- Closing remarks: **Paola Borella and Maria Luisa Ricci**





QUIDEL®



GRUNDFOS



The 9th International Conference on
Legionella

Rome, 26th - 30th September 2017

CONFERENCE OFFICE



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