The 9th International Conference on Legionella
Rome, 26th - 30th September 2017

Auditorium Antonianum
Viale Manzoni, 1 - 00185
ROME
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. 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 spp., 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
ORGANIZING COMMITTEE

Boccia Stefania
Università Cattolica del Sacro Cuore, Fondazione Policlinico ‘Agostino Gemelli’, Rome, Italy

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Sapienza University, Rome, Italy

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University Roma III, Roma, Italy

SCIENTIFIC COMMITTEE

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National Reference Centre of Legionella, Lyon, France

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Roy Craig
Waldemar Von Zedtwitz Professor and Vice-Chair of Microbial Pathogenesis

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SCIENTIFIC COMMITTEE

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De Jong Birgitta
European Centre for Disease Prevention and Control, Stockholm, Sweden

Exner Martin
Institute for Hygiene and Public Health, University of Bonn, Germany

Gaia Valeria
Swiss National Reference Centre for Legionella, Bellinzona, Switzerland

INVIDTED SPEAKERS

Berjeaud Jean-Marc
University of Poitiers, Poitiers, France

Buchrieser Carmen
Institut Pasteur, Paris, France

Cooley Laura
CDC’s National Center for Immunization and Respiratory Diseases, Atlanta, USA

Edelstein Paul Herbert
University of Pennsylvania, Philadelphia, USA

Hadjichristodoulou Christos
University of Thessaly, Larissa, Greece

Hilbi Hubert
Institute of Medical Microbiology, University of Zurich, Zurich, Switzerland

Lee Susanne
Director Leegionella Ltd

Palusinska-Szysz Marta
Maria Curie-Sklodowska University, Lublin, Poland

Pruden Amy
Virginia Tech, Blacksburg, USA
The 9th International Conference on Legionella will be held at the Auditorium Antonianum, viale Manzoni, 1 Rome.  
http://www.auditoriumantonianum.it/en/
The congress venue is located in a strategic and central area of Rome, just 1400 metres far from the principal train and underground station, Termini.

HOW TO GET THERE

From both the international airport of Rome you can reach the centre of Rome quickly by train, buses or private coaches.

• TO/FROM FIUMICINO AIRPORT

TRAINS FROM/TO THE FIUMICINO AIRPORT
From the railway station, located in the airport, near the Arrivals and Departures terminals, you can reach the city centre in many, frequent Trenitalia’s connections:
• Leonardo Express, a non-stop service exclusively for airport passengers to/from Rome Termini railway station leaving every 15 minutes* with a journey time of 32 minutes
• Regional FL1 trains to/from other stations in Rome, including Rome Tiburtina, with departures every 15 minutes on weekdays and every 30 minutes on weekends and holidays
* - departures every 30’ from Fiumicino Airport before 07.08 and after 21.08 and between 10.08/10.38 and 14.08/14.38
- departures every 30’ from Rome Termini before 06.20 and after 20.20 and between 09.50/10.20 and 13.50/14.20

BUSES FROM/TO THE AIRPORT
A lots of buses companies are available from/to the city from “Leonardo da Vinci” Airport:

COTRAL:
• The scheduled bus stops are opposite Terminal 2, Arrivals. To reach them follow the “Regional Bus Station” signs.
• Information on the service: tickets can be purchased at the authorized sales point (news stands, tobacconists, etc.) or, with a surcharge, on-board the bus.
• It takes about an hour.

SIT BUS SHUTTLE
• The buses stop at the BUS hub adjacent to the Terminal 3 exits - Arrivals, bus rank no. 1. To reach them follow the “Regional Bus Station” signs.
• Information on the service: the service operates every day, from Monday to Sunday. Tickets can be purchased online or directly on board the bus. The journey is about 55 minutes and buses leave about every 30 minutes.

T.A.M. S.R.L.
• The buses stop at the BUS hub adjacent to the Terminal 3 exits, Arrivals, bus rank no. 4. To reach them follow the “Bus Station” signs
• Information on the service: the service operates every day, from Monday to Sunday. Tickets can be purchased directly on board the bus. The journey is about 45 minutes - leaving every 30 minutes
http://www.tambus.it

TERRAVISION
• The buses stop at the BUS hub adjacent to the Terminal 3 exits, Arrivals, bus rank no. 3. To reach them follow the “Bus Station” signs.
• Information on the service: the service operates every day, from Monday to Sunday. Tickets can be purchased online or on board the bus. The journey is about 55 minutes and buses leave about every 30 minutes.
www.terravision.eu

ATRAL - SCHIAFFINI
• The buses stop at the BUS hub adjacent to the Terminal 3 exits, Arrivals, bus rank no. 4. To reach them follow the “Bus Station” signs.
• The service operates every day, from Monday to Sunday.
• Tickets can be purchased online, directly on board the bus or at the authorized agents in the Arrivals hall, Terminal 3
http://www.romeairportbus.com

• TO/FROM CIAMPINO AIRPORT

TRAINS From/to CIAMPIMO AIRPORT
The nearest train station to the Giovan Battista Pastine Airport is in the town of Ciampino, connected to the airport by COTRAL/SCHIAFFINI buses every 30 minutes. The journey time is, on average, 5 minutes. The cost of the ticket, for sale both on board and from the ground staff is 1 euro.

BUSES FROM/TO THE CIAMPINO AIRPORT
A daily connection between the airport and Rome Termini railway station is provided by these companies:

ATRAL - COTRAL - SIT - TERRAVISION - SCHIAFFINI

All the bus stops are opposite International Departures. For information on timetables, routes, and the cost of tickets see the websites of the various bus companies

• ARRIVING FROM TERMINI STATION:

• By foot, 1400 metres (about 15 minutes)
• By underground, line A (direction Anagnina), MANZONI station (100 metres)
• By bus, line 714, MERULANA/LABICANA stop
other buses to/from the congress venue:
• Line 3 or 810, MANZONI/MERULANA stop
• Line 16 or 717, MERULANA/LABICANA

For more information consult the Local public transport website
http://www.atac.roma.it/page.asp?p=52
CONFERENCE
PRELIMINARY PROGRAM

TUESDAY, SEPTEMBER 26TH, 2017

13:00-19:00 Registration and exhibition
17:00-18:30 Welcome address and conference opening

Lectio Magistralis
Edelstein P.
Legionnaires’ disease, a brief history

WORLD TRENDS OF LEGIONELLA INFECTION

De Jong B.
Legionnaires’ disease from a European perspective

Cooley L.
A Watershed Moment: The Increasing Challenge of Legionnaires’ Disease in the United States

19:00-21:00 Welcome Cocktail at the “Istituto Nazionale degli Studi Romani”

WEDNESDAY, SEPTEMBER 27TH, 2017

08:00-17:30 Registration and exhibition

MORNING SESSION

08:30-10:30 HOST - LEGIONELLA INTERACTIONS

Hilbi H.
Modulation of membrane dynamics and cell migration by Legionella

Roy C.
A new approach to identify Legionella pneumophila effector mutants with distinct virulence phenotypes

Selected oral communications

10:30-11.00 Coffee break

11:00-13.00 HOST - LEGIONELLA INTERACTIONS, CONTINUED

Palusinska-Szysz M.
The role of lipids in Legionella-host interaction

Selected oral communications

Lunch Time
AFTERNOON SESSION

14:00-15:30  Poster Session 1

15:30-18:30  IMMUNOLOGY AND HOST SUSCEPTIBILITY

   Zamboni D.
   Recognition of Legionella by intracellular receptors in macrophages
   
   Selected oral communications

   GENETICS AND DIVERSITY

   Buchrisier C.
   Molecular mimicry of eukaryotic proteins, a main virulence strategy of Legionella
   
   Selected oral communications

   Round table: discussion on the topics (critical aspects, pros and cons, etc.) presented in the session of the day

THURSDAY, SEPTEMBER 28TH, 2017

08:00-17:30  Registration and exhibition

MORNING SESSION

08:30-10:30  CLINICAL ASPECTS, TREATMENT, AND HOST RELATIONSHIP

   Selected oral communications

10:30-11:00  Coffee break

11:00-13:00  Epidemiology and Outbreak investigation

   Selected oral communications

   Sponsored Symposium

   Lunch Time
AFTERNOON SESSION
14:00-15:30 Poster Session 2
16:00-17:30 DIAGNOSIS AND TYPING

*Moran-Gilad J.*
The future of Legionella typing in the Genomics Era

*Jarraud S.*
Diagnosis and Legionella typing of atypical forms of legionellosis

Selected oral communications

Round table: discussion on the topics (critical aspects, pros and cons, etc.) presented in the session of the day

17:30-00:00 Tour of the ancient Roman Avenue “Appia Antica” and Gala dinner at “Villa Dino”
www.villadino.com

FRIDAY, SEPTEMBER 29TH, 2017

08:00-17:30 Registration and exhibition

MORNING SESSION

08:30-10:30 ECOLOGY OF LEGIONELLA, AND INTERACTION WITH ENVIRONMENTAL RESERVOIRS

*Ashbolt N.*
The original cat and mouse interplay: with picky amoebae and persistent L. pneumophila

*Bertjeaud J.M.*
Natural antimicrobial substances to control proliferation of L. pneumophila

Selected oral communications

10.30-11.00 Coffee break

11.00-13.00 LEGIONELLA DETECTION AND DIFFUSION IN THE ARTIFICIAL RESERVOIRS

*Hadjichristodoulou C.*
Legionella colonization of water systems aboard passenger ships and differences with accommodation sites (hotels etc.)

Selected oral communications

Sponsored Symposia
AFTERNOON SESSION

14:00-15:30 Poster sessions 3
15:30-18:00 PREVENTIVE AND CONTROL STRATEGIES

**Exner M.**
The German experiences with Legionella risk regulation

**Lin Y.E.**
The evaluation of mandatory Legionella environmental surveillance in healthcare facilities in Taiwan: clinical and environmental perspectives

Selected oral communications

Round table: discussion on the topics (critical aspects, pros and cons, etc.) presented in the session of the day

SATURDAY, SEPTEMBER 30TH, 2017

08:30-12:00 Exhibition

09:00-12:00 LEGIONELLA GUIDELINES IN DIFFERENT COUNTRIES

**Stout J.**
U.S. guidance and standards

**Lee S.**
European Legionella Guidelines

Selected oral communications

Round table: discussion on the topics (critical aspects, pros and cons, etc.) presented in the session of the day

CHALLENGES AND FUTURE PERSPECTIVES

**Pruden A.**
Advancing a Framework for Prebiotic/Probiotic control of Legionella in Distribution Systems and Plumbing

**Gaia V.**
The European perspectives of Legionella surveillance and control

Selected oral communications

12:00-12:30 Closing remarks