

GENERAL INFORMATION



25th International
Organization for Mycoplasmaology Congress

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Program IOM 2024 – Hotel Cristina-Las Palmas de Gran Canaria

Sunday 07	Monday 08	Tuesday 09	Wednesday 10	Thursday 11
	9:00 Opening Ceremony	9:00 Keynote Lecture 2	9:00 Keynote Lecture 3	
	9:30 Emmy Klieneberger-Nobel Award Lecture	9:50 Symposium 2	9:50 Symposium 3	9:00 Seminar 4
	10:30 Coffee Break	10:30 Coffee Break	10:30 Coffee Break	10:30 Coffee Break
Taxonomy meeting 12:00-14:00 Room: Santa Catalina	11:00 Seminar 1	11:00 Symposium 2	11:00 Symposium 3	11:00 General Meeting & Closing Ceremony
		11:40 Derrick Edward Award Lecture	11:40 Short Talks 3	
		12:10 Short Talks 1		
	13:00 Lunch	13:00 Lunch	13:00 Lunch	13:00 Lunch
IRPCM meeting 15:00-17:00 Room: Santa Catalina	14:00 IRPCM	14:00 IRPCM	14:00 IRPCM	
	15:00 Keynote Lecture 1 & Robert F. Whitcomb Award	15:00 Seminar 2	15:00 Seminar 3	
	15:50 Symposium 1			
	16:30 Coffee Break	16:30 Coffee Break	16:30 Coffee Break	
17:00 – 18:30 IOM Board meeting Room: Santa Catalina	17:00 Symposium 1	17:00 Short Talks 2	17:00 Short Talks 4	
		17:40 Peter Hannan Award Lecture	17:30 – 19:00 Poster Session 1	17:30 – 19:00 Poster Session 2
Welcome Reception Hotel Cristina Swimming pool terrace 19:00	IOM Board Dinner Meeting point at the hotel at 19:00	Old Town Visit Meeting point at the hotel at 19:00	Gala Dinner Meeting point at the hotel at 19:30	

IRPCM meetings

Rooms	Monday 08 14:00 - 15:00	Tuesday 09 14:00 - 15:00	Wednesday 10 14:00 - 15:00
Santa Catalina (11th level)	Clinical Human	-	Avian
Las Palmas	Chemotherapy of mycoplasma infections	Porcine	New and Emerging Species
Gran Canaria	Ruminant	Molecular Genetics and Cell Biology	Plant and Arthropod

Internet Access

Net: IOM

Keyword: IOW2024!

Registration Desk

The IOM 2024 Congress Registration Desk will be located in level P between Gran Canaria' and Las Palmas rooms.

The desk will be open:

- From 17:00h to 19:00h on Sunday 7th, July.
- From 08:00h-18:00h on Monday 8th, July
- From 9:00 to 13:00h for the rest of the congress.

Scientific program

Scientific Program Monday 08

09:00 – 09:30 **Opening Ceremony**

09:30 – 10:30 **Emmy Klieneberger-Nobel Award Lecture**

Chairs: Inna Lysnyansky

Alain Blanchard

From Gene Cloning to Genome Engineering:
a Mycoplasma Journey

10:30 – 11:00 **Coffee Break**

11:00 – 13:00 **Seminar 1 - Virulence & Diagnostic**

Chairs: Aizhen Guo & Salvatore Catania

11:00 **Florence Tardy**

O-05 *Mycoplasma equirhina*, a neglected player in equine respiratory disorders?

11:15 **Jennifer Guiraud**

O-18 *Mycoplasma pneumoniae* epidemic in France, 2023-2024

11:30 **Elyse Levenda**

O-69 Interactions of *Mycoplasma penetrans* with urethral epithelial tissue culture cells

11:45 **Anneke Feberwee**

O-67 Virulence of two recent Dutch *Mycoplasma synoviae* isolates in broilers and demonstration of *M. synoviae* in lesions by an *in situ* hybridization test

12:00 **Alexandra Burne**

O-71 The invertebrate *Galleria mellonella* confirms differences in virulence potential between *Mycoplasma alligatoris* and *Mycoplasma crocodyli*, two closely related Crocodylian pathogens

12:15 **Calvin Ko**

O-23 Development of a viability-qPCR detection system and *in vitro* growth evaluation of *Mycoplasma hyopneumoniae*

12:30 **Nadeeka Wawegama**

O-01 Development of a model of *Mycoplasma bovis* mastitis in sheep

Scientific Program Monday 08

13:00 – 14:00

Lunch

14:00 – 15:00

IRPCM

15:00 – 16:30

Symposium 1

Virulence, pathogenesis and control

Chairs: Li Xiao & Glenn Browning

15:00

Keynote Lecture and Robert F. Whitcomb Award

Saskia Hoguenout

How a mollicute induces developmental changes in its host and attracts insect vectors

15:50 **Martina Seruga Music**

O-60 '*Candidatus Phytoplasma solani*' predicted effectors SAP11-like and SAP54-like are individually sufficient to alter phenotype of transformed Arabidopsis plants

16:10 **Wei Wei**

O-25 Artificial Intelligence-Based Diagnosis of Phytoplasma Diseases: A Case Study on Tomato Plants Infected by Potato Purple Top Phytoplasma

16:30 – 17:00

Coffee Break

17:00 **Gang Zhao**

O-38 Mycoplasma Nucleomodulin MbovP475 promotes inflammatory cytokines transcription by Remodeling chromatin of macrophages

17:20 **Xiong Qiyan**

O-37 Efficacy evaluation in pigs of a combined inactivated vaccine against *Mycoplasma hyopneumoniae* and *Mycoplasma hyorhinis*

17:40 – 18:10

Peter Hannan Award Lecture

Chairs: Li Xiao & Glenn Browning

Chris Morrow

A 40-year struggle with *Mycoplasma synoviae*: an insidious pathogen hiding as a commensal

Scientific Program Tuesday 09

09:00 – 10:30

Symposium 2

Diversity, outbreaks and surveillance

Chairs: Cécile Bébéar & Alain Blanchard

09:00

Keynote Lecture

Benjamin Roche

Understanding the interplay between host and pathogen diversities: opportunities for prevention of emerging infections?

09:50 **Joachim Spergser**

O-56 Species diversity within family *Mycoplasmataceae* – a fresh perspective on the expansion of genera *Mycoplasma* and *Ureaplasma* with 140 novel species entities

10:10 **Michael Kube**

O-50 Genomic Insights into the Sugar Beet Pathogen '*Candidatus Phytoplasma solani*' driving the Outbreak in Germany

10:30 – 11:00

Coffee Break

11:00 **Maureen Diaz**

O-28 Harnessing clinical laboratory data sources for surveillance of *Mycoplasma pneumoniae* infections in the United States

11:20 **Mary Brown**

O-57 *Mycoplasma agassizii*: Coevolution with Ancient Land Tortoises or Introduction to Wild Populations?

11:40 – 12:10

Derrick Edward Award Lecture

Chairs: Cécile Bébéar & Alain Blanchard

Patrick Meyer Sauter

Mycoplasma pneumoniae: delayed re-emergence, new diagnostics, and evaluation of antibiotic treatment

Scientific Program Tuesday 09

12:10 – 13:00

Short Talks 1

Chairs: Sathya Kulappu Arachchig & Calvin Ko

Lars Vogelgsang

O-32 From Sequence to Activity: Insights into the Hgal-RM-System of *Mycoplasma hominis*

Maverick Monié—Ibanes

O-24 Airways and gut microbiome disturbance and resilience dynamics during polymicrobial bovine respiratory disease

Beatriz Almeida Sampaio

O-34 Assessment of immune response in goats using recombinant P40 and MAG_1560 as vaccine candidates for *Mycoplasma agalactiae*

Jitra-Marie Jittasevi

O-09 Deciphering genome transplantation mechanisms as a step towards understanding basic principles of life

Hani Alnakhli

O-35 Development of a Subunit Vaccine Against *Mycoplasma gallisepticum* Utilizing Diverse Surface Proteins

Elisabet Frutos Grilo

O-08 Mycoplasma-Derived Vesicles: Novel Therapeutic Vehicle for Lung Disorders

Zhixin Feng

O-36 Mycoplasma shares a similar immune escape mechanism to mediate persistent infection

13:00 – 14:00

Lunch

14:00 – 15:00

IRPCM

15:00 – 16:30

Seminar 2 – Genomics and beyond

Chairs: Veronica Jarocki & Shigeyuki Kakizawa

15:00 **Anna-Marie Ilic**

O-54 Power of Codon Usage Analysis for Phylogenetic Reconstruction of the *Mollicutes*

15:15 **M'hamed Derriche**

O-12 Host Environmental Factors Promote Horizontal Dissemination of Integrative Conjugative Elements (ICE) in Ruminant Mycoplasmas

Scientific Program Tuesday 09

15:30 **Sabine Pereyre**

O-33 Circularization, transcription and transfer capacity of integrative and conjugative elements of *Mycoplasma hominis*

15:45 **Sergi Torres-Puig**

O-31 Prepare for Landing: use of a double site-specific recombination system to stably insert foreign DNA sequences in the chromosome of *Mycoplasma feriruminatoris*.

16:00 **Patrick Hogan**

O-29 Improved CRISPR-base editor tools for genome edition in *Mycoplasma bovis*: Application to surface proteins

16:15 **Javier Gonzalez de Miguel**

O-07 Engineering Mycoplasma for the treatment of Idiopathic Pulmonary Fibrosis

16:30 – 17:00 **Coffee Break**

17:00 – 17:30 **Short Talks 2**

Chairs: Laure Beven & Amir Hadjinoormohammadi

Manon Vastel

O-02 $\beta(1-6)$ glucan homopolymer in mycoplasma capsules

Doukun Lu

O-64 Identification of Nucleomodulins of *Mycoplasma mageritensis* by Magnetic bead enrichment and Proximity-Based Biotinylation Approaches

Sathya N. Kulappu Arachchige

O-39 Assessment of tracheal mucosal thickness is the most powerful and reproducible method for evaluation of the efficacy of vaccines against *Mycoplasma gallisepticum* in poultry

Salim Chibani

O-49 Breaking down the complexity of *Mycoplasma hominis*

Mitchell Balish

O-16 Synergistic Interactions among Antimicrobial Agents Targeting *Mycoplasma pneumoniae* Biofilms In Vitro

17:30 – 19:00 **Poster Session 1**

Scientific Program Wednesday 10

09:00 – 10:30 **Symposium 3**
Omics and high-throughput approaches

Chairs: Christine Citti & Sergi Torres Puig

09:00 **Keynote Lecture**

Héctor Argüello-Rodríguez

Disclosing pig-pathogen interactions through meta-omics tools

09:50 **Chih-Horng Kuo**

O-53 Assessing the recent revisions of *Mollicutes* taxonomy based on genome-scale analyses of phylogenetic inferences and gene content comparisons

10:10 **Glenn Browning**

O-03 Characterisation and comparison of the genomes of feline mycoplasmas

10:30 – 11:00 **Coffee Break**

11:00 **Yoshihito Kitaoku**

O-55 Mycoplasmaogenesis: Towards Definition of the Obscured Contour

11:20 **Alessandra Tata**

O-47 Ambient Mass Spectrometry-based culturomics: a novel, rapid, and accurate approach for monitoring the metabolic behavior of *Mycoplasma*: a proof-of-concept demonstration on *Mycoplasma gallisepticum*

11:40 – 13:00 **Short Talks 3**

Chairs: Maureen Diaz & Sabine Pereyre

John W. Sanford

O-11 A Surface Post-Translational Modification System is Conserved in *Mycoplasma genitalium*, *Mycoplasma mycoides*, and JCVI-Syn3A

Imdad Ullah

O-04 Molecular detection and isolation of *Mycoplasma bovis* strains from tissue samples of *Bos grunniens* (Yak)

Marina Marcos Silva

O-30 Heterologous expression of *Mycoplasma pneumoniae* major adhesins in the close related species *Mycoplasma genitalium*.

Michele Gastaldelli

O-21 Isolation of a potentially novel *Mycoplasma* species related to *M. bovirhinis* from dairy cattle affected by BRD in Northern Italy

Scientific Program Wednesday 10

Morgan Hunte

O-66 In vivo disease severity in a mouse model of *Mycoplasma pneumoniae* is influenced by the adherence state of bacteria during inoculum preparation.

Jan Werner Böhm

O-51 Analysis of the Genomic Core of *Phytoplasmas* and other *Mollicutes*

Li Xiao

O-22 Development of a real-time PCR assay for simultaneously detecting *Mycoplasma genitalium* and its mutations associated with fluoroquinolone resistance in clinical specimens

Anne Bouchardon

O-06 Can BactoBox® be used for Mycoplasma viable cell counting?

Yukiko Nakura

O-48 Identification of an endonuclease and N6-adenine methyltransferase from *Ureaplasma parvum* SV3F4 strain

Chloé Ambroset

O-52 Hotspot of recombination in *Metamycoplasma equirhinis*: evidence of multiple horizontal gene transfer events originating from bacteria sharing the same ecological niche

13:00 – 14:00

Lunch

14:00 – 15:00

IRPCM

15:00 – 16:30

Seminar 3 - Cell Biology

Chairs: Birgit Henrich & Eric Baranowski

15:00 **Laure Beven**

O-15 Unlocking Spiroplasma helix secrets: fibril's role in morphological resilience

15:15 **Aizhen Guo**

O-10 Cyclic adenylate synthase MbovP496 regulates *Mycoplasma bovis* growth by affecting potassium ion transport channels

Scientific Program Wednesday 10

15:30 **Hengning Wu**

O-62 Structural analysis and Molecular dynamics simulations of urease from *Ureaplasma parvum*

15:45 **Federico Gabriel Mirkin**

O-61 The structural landscape of the secretome of phytoplasmas, master modulators of plant architecture

16:00 **Prescott Atkinson**

O-63 An ABC transporter pair are essential for the synthesis of the *Mycoplasma genitalium* biofilm structural exopolysaccharide

16:15 **Shigeyuki Kakizawa**

O-14 Serum and albumin free media for Mycoplasmas

16:30 – 17:00 **Coffee Break**

17:00 – 17:30 **Short Talks 4**

Chairs: Rohini Chopra & Rubén Rosales

Theresa Wagner

O-13 Mycoplasma extracellular vesicle interaction with the bovine host

Maryne Jay

O-26 Recent updates for VIGIMYC, a settled 20-year old surveillance network dedicated to ruminant mycoplasmas

Hezron O. Wesonga

O-17 Recent observations on use of Tulathromycin and oxytetracyclines in the treatment of contagious bovine pleuropneumonia in Kenya

Musa Mulongo

O-45 Report of CBPP expert Workshop on measurement of efficacy in Clinical Trials

James Miser Akoko

O-27 Development of a scalable CBPP Control Strategy for Pastoral Production Systems: Preliminary findings

17:30 – 19:00 **Poster Session 2**

Scientific Program Thursday 11

09:00 – 10:30

Seminar 4 - Immunology

Chairs: Florence Tardy & Miklós Gyuranecz

09:00 **Thomas Démoulins**

O-43 Temperature impacts the bovine ex vivo immune response towards *Mycoplasma bovis*

09:15 **Rohini Chopra Dewasthaly**

O-46 A window into the immune responses of sheep experimentally infected with *M. agalactiae* – Role of Vpma phase variation and differential responses elicited by individual “Phase-Locked” Vpma Expression Variants

09:30 **Sahar Zare**

O-42 Could the GAPDH-Enhanced MS-H Strain Redefine Vaccine Efficacy?

09:45 **Thatcha Yimthin**

O-44 Immune responses elicited by Janus-faced *Mycoplasma mycoides* - glycans make the difference

10:00 **Manoel Neres Santos Junior**

O-41 Microorganism-host interaction and the immunomodulatory mechanisms of synthetic genome *Mycoplasma mycoides* subsp. *capri* (Mmc) strains in caprine peripheral blood mononuclear cells culture

10:15 **Lucas Miranda Marques**

O-40 Development and immunogenicity of a multiepitope recombinant antigen for the diagnosis of *Mycoplasma genitalium*

10:30 – 11:00

Coffee Break

11:00 – 13:00

General Meeting & Closing Ceremony

13:00

Lunch