
ICAR2018
Conference
PROGRAM OUTLINE

The conference presentations will start on Thursday 24 May at 11:00, although there will be a registration period from 9:30 to 11:00 in the morning. The Conference will finish on Friday 25 May around 15:00.

In any case, attendees will be able to pick up the conference materials at the registration desk at any time during the conference. The conference/registration desk will be placed at the main hall at the conference venue (Torremolinos Congress Center)

ORAL PRESENTATIONS will take place according to the following structure:

Day	Sessions
Thursday, 24 May	➢ Antimicrobial materials science and surface chemistry. Antimicrobials in consumer products ➢ Antimicrobial chemistry ➢ Antimicrobial physics
Friday, 25 May	➢ Antimicrobial natural products I - Peptides ➢ Antimicrobial natural products II - Terrestrial and marine organisms ➢ Bacteriophages ➢ Biofilms ➢ Antimicrobial resistance. Mechanisms of action of antimicrobial agents

There will be 2 POSTER SESSIONS at the main hall at the conference venue according to the following structure:

Day	Time (tentative)	Sessions
Thursday, 24 May	From 15:30 to 16:15	➢ Biocontrol. Biosynthesis of antimicrobials ➢ Antimicrobial materials science and surface chemistry. Antimicrobials in consumer products ➢ Antimicrobial chemistry ➢ Non-antibiotic biocides ➢ Clinical and medical microbiology, infectious diseases and antimicrobials. Public health ➢ Techniques and Methods
Friday, 25 May	From 11:00 to 11:45	➢ Antimicrobial natural products I - Peptides ➢ Antimicrobial natural products II - Terrestrial and marine organisms ➢ Antimicrobial resistance. Mechanisms of action of antimicrobial agents ➢ Attenuation of virulence as antimicrobial strategy

Posters are expected to be posted during the whole day assigned. Presenters are expected to be available for discussion of their posters during the corresponding sessions.

SCIENTIFIC PROGRAM

9:30-11:00 **REGISTRATION & COFFEE**

Thursday, 24 May 2018 (At the main hall)
(Registration can also be done at any time during the Conference)

ORAL PRESENTATIONS

Thursday, 24 May 2018

Session:
Antimicrobial materials science and surface chemistry. Antimicrobials in consumer products

Chair: Cezarina Cela Mardare (Johannes Kepler University Linz, Austria)

11:00-12:00 **PLENARY LECTURE**
Medical devices decorated with stimuli-responsive polymers for contact-killing surfaces and antimicrobial competitive release
Carmen Álvarez-Lorenzo

12:00-12:15 Winery waste as an antimicrobial and antioxidant additive in packaging
Charlotte Vandermeer

12:15-12:30 Bacteria-triggered antimicrobial coatings to maintain drinking water quality
Melissa K.L.N Sikosana

12:30-12:45 Vancomycin loaded superparamagnetic $MnFe_2O_4$ nanoparticles coated with PEGylated chitosan to enhance antibacterial activity
Akbar Esmaeili

12:45-13:00 Mo-W-O system: A study on the mechanisms of antibacterial action via protons release
Cezarina Cela Mardare

13:00-14:00 **LUNCH BREAK (Buffet at the main hall)**

Sessions:
Antimicrobial physics
Antimicrobial chemistry

Chair: Kaplan Kirakci (Czech Academy of Sciences, Czech Republic)

14:00-14:15 Photo-inactivation of Gram-positive and Gram-negative bacteria by an octahedral molybdenum cluster complex
Kaplan Kirakci

14:15-14:30 Designer polymeric biocides
Simon Swift

14:30-14:45 New antibiotic leads targeting bacterial RNA polymerase holoenzyme assembly identified with a BRET drug discovery platform
Sara Sartini

14:45-15:00 A new look into an old natural biopolyester - the antimicrobial activity and chemistry of suberin
Rúben Miguel Lopes Rodrigues

15:00-15:15 Evaluation of antibacterial properties of copper alloys surfaces in long-term geriatric care facilities
Marius Colin

15:15-15:30 Advancing a new class of methionyl-tRNA synthetase (MetRS) antibiotics
Mansour Bassiri

15:30-16:15 **POSTER SESSION & COFFEE BREAK**
(at the main hall)

Friday, 25 May 2018

Sessions:
Antimicrobial resistance. Mechanisms of action of antimicrobial agents
Biofilms

Chair: Giuseppe Celenza (University of l'Aquila, Italy)

09:00-09:15	Effects of cerium oxide nanoparticles on bacterial outer membrane permeability and their potential application as antibiotic adjuvant in MDR pathogenic bacteria **Giuseppe Celenza**
09:15-09:30	Antibiotic resistance ABCF proteins reset the peptidyl transferase center of the ribosome to counter translational arrest **Marje Kasari**
09:30-09:45	Φ1207.3 of *Streptococcus pyogenes* is a Functional Bacteriophage carrying the macrolide efflux gene pair *mef*(A)/*msr*(D) **Gianni Pozzi**
09:45-10:00	Effect of an organic acids based feed additive and enrofloxacin on the prevalence of antibiotic-resistant *E. coli* in broilers **Nataliya Roth**
10:00-10:15	Investigating levels of evolved Arg_{10}-teixobactin resistance in methicillin-resistant *Staphylococcus aureus* **Edward John Taylor**
10:15-10:30	Antimicrobial effect of lysozyme in serum in patients with ventilation-associated pneumonia **Viktoryia Ziamko**
10:30-10:45	Biofilm formation in clinical isolates in ICU **Viktoryia Ziamko**
10:45-11:00	Copper alloys door handles: weapons against biofilms formation? **Gaelle Carré**
11:00-11:45	**POSTER SESSION & COFFEE BREAK** **(at the main hall)**

Sessions:
Antimicrobial natural products I - Peptides
Antimicrobial natural products II - Terrestrial and marine organisms
Bacteriophages

Chair: Goutam Gupta (New Mexico Consortium, USA)

11:45-12:00	Engineering of Next-Generation Antimicrobial Peptides (AMPs) I: mechanisms behind how AMPs act and how bacteria develop resistance against them **Goutam Gupta**
12:00-12:15	Engineering of Next-Generation Antimicrobial Peptides (AMPs) II: next generation AMPs with high bactericidal activity and low susceptibility to bacterial resistance **Goutam Gupta**
12:15-12:30	Antibiotic potential of defense peptides from wild cereals **Eugene Rogozhin**
12:30-12:45	Insects – novel source for antimicrobial natural products **Nathalie Berezina**
12:45-13:00	Bark beetles, a source of *Pseudomonas* strains with antimicrobial activity **Paula García-Fraile**
13:00-13:15	Allyl isothiocyanate and cinnamaldehyde against mycotoxigenic fungi *in vitro* and their combined use in stored corn **Karla Carolina Paiva Bocate**
13:15-13:30	Biological and molecular characterization of South African bacteriophages infective against *Streptococcus uberis*, a predominant causal agent of bovine mastitis **Caleb Pillay**
13:30-13:45	Assessment of the lytic ability of bacteriophages specific for *Staphylococcus aureus*, associated with bovine mastitis in South Africa **Caleb Pillay**
13:45-14:45	**LUNCH BREAK (Buffet at the main hall)**

POSTER PRESENTATIONS

Thursday, 24 May 2018 | Main Hall
From 15:30 to 16:15

Sessions:
Biocontrol. Biosynthesis of antimicrobials
Antimicrobial materials science and surface chemistry. Antimicrobials in consumer products
Antimicrobial chemistry
Non-antibiotic biocides
Clinical and medical microbiology, infectious diseases and antimicrobials. Public health
Techniques and Methods

Code	Title	Presenter(s)
T27	Comparison of antimycotic efficacy of biosynthesized selenium and tellurium nanoparticles against grapevine (*Vitis vinifera*) pathogenic fungi	Marco Andreolli
T28	Antimicrobial Functionalization of Copper Surfaces by Ultrashort Pulsed Direct Laser Interference Patterning	Daniel Wyn Müller
T29	Antiviral, antimicrobial and biocompatible polymer-based coatings with natural bioactive substances	Christoph Gneupel
T30	Coating of titanium surface with Ag_2WO_4 inhibits methicillin-resistant *Staphylococcus aureus* adhesion	Juan Andrés
T31	Ag–Bi nanoalloys: Synthesis by femtosecond laser irradiation and antibacterial activity against MRSA and MSSA	Juan Andrés
T32	Antifungal properties of silver tungstate (Ag_2WO_4) irradiated by electron and femtosecond laser	Elson Longo
T33	Antibacterial activity of α-Ag_2-2xMxWO$_4$ (M = Cu^{2+}) Solid Solutions Obtained by Coprecipitation Method	Elson Longo
T34	Synthesis and in-vitro biological activity of some novel 2-pyazinecarboxylic acid derivatives	Hossein Mostafavi
T35	Insight into the metabolomics inventory and exploring metabolic adaptation of *Streptococcus pneumoniae* to antibiotic stresses	Anne Karla Leonard
T36	An innovative, electrochemical in situ ozone generator	Barbara Behrendt-Fryda
T37	Development of novel disinfectants against pathogens occur in the hospital environment	Jan Marek
T38	How different sterols contribute to cytotoxic action of sea cucumber saponins	Lins Laurence
T39	Methicillin resistant *Staphylococcus aureus* (MRSA) in raw buffalo milk from Italy: preliminary results	Elisa Spinelli
T40	MRSA in horses and humans working in contact with them	Elisa Spinelli
T41	Microorganisms in nurses' hands, clinical uniforms, and pocket medical devices	Susana Alarico
T42	Detection of marker proteins for bacteria antimicrobial resistance by mass spectrometry	Yingdi Zhu
T43	Antimicrobial activity assay of *Pseudomonas luteola* VFB122	Brian Morales Segovia
T44	Comparison of sporulation and germination between clinical and hospital environment strains of *Clostridium difficile* and *Clostridium perfringens*	Krzysztof Sacha

Friday, 25 May 2018 | Main Hall
From 11:00 to 11:45

Session:
Antimicrobial natural products I - Peptides
Antimicrobial natural products II - Terrestrial and marine organisms
Antimicrobial resistance. Mechanisms of action of antimicrobial agents
Attenuation of virulence as antimicrobial strategy

Code	Title	Presenter(s)
F22	Fmoc Chemical Synthesis of a Cyclotide with Antibacterial Activity against Aquaculture Pathogens	Claudio Andrés Álvarez Álvarez
F23	Analogous derived from C-terminal salmonids IL-8 as potential antimicrobial agents for infectious diseases	Paula Santana Sepúlveda
F24	Bactericidal activity of AP-CECT7121 combined with colistin against biofilmproducers *Escherichia coli* and *Pseudomonas aeruginosa* from catheters	Gastón Delpech
F25	Low-molecular amphiphilic compounds regulation of pore-forming activity of cecropins	Svetlana S. Efimova
F26	Involvement of Oligopeptidase B in Bacterial Resistance against the Antimicrobial Peptide Bac7	Irene Wuethrich
F27	A novel *Pseudomonas* strain capable to produce antifungal substances	Zaki Saati-Santamaría
F28	*Arthrobacter globiformis* as a source of bioactive compounds for pharmaceutical applications	Zaki Saati-Santamaría
F29	Bark beetles, a novel source of strains capable to inhibit *Candida* sp.	Paula García-Fraile
F30	New antimicrobial compounds from microorganisms	Paula Sanguiñedo De Bellis
F31	Identification of compound with microbial activity extracted from the cyanobacteria *Arthrospira maxima*	Roxana Olvera Ramírez
F32	Antimicrobial activity of a methanolic extract of *Pinguicula moranensis* Kunth	Roxana Olvera Ramírez
F33	Garlic essential oil as an antimicrobial agent towards mycotoxigenic fungi	Karla Carolina Paiva Bocate
F34	Typing *Burkholderia cepacia* complex isolated from non-cystic fibrosis patients in Kuwait	Ali A Dashti
F35	Extensive drug resistant (XDR) *Acinetobacter baumannii* in coronary care units of a hospital in Kuwait	Ali A Dashti
F36	High prevalence of extended-spectrum β-lactamase producing Enterobacteriaceae among clinical isolates from cats and dogs in Switzerland	Magdalena Nüesch-Inderbinen
F37	Synergistic antibacterial activity of phenolic compounds with commercial antibiotics	JeongWoo Kang
F38	Effect of Isothiocyanates on cholera toxin's gene expression	Klaudyna Krause
F39	Determining the rate and cost of *in vitro* resistance development in Methicillin Resistant *Staphylococcus aureus* against moenomycin A	Daniel George Lloyd
F40	Antimicrobial resistance in rare mycobacteria from hospital environment and diabetic foot ulcers	Susana Alarico
F41	Antibiotic resistance mediated by integrons in *Pseudomonas* spp. genus	Marina Robas Mora
F42	*Quorum sensing* and *Quorum quenching* in *Pseudomonas* spp.: role of antibiotics as quorum quenchers at subclinical concentrations	Pedro A Jimenez Gómez

VIRTUAL PRESENTATIONS

(available at the online platform on the conference website from 17 to 25 May)

Title	Presenter(s)
Bioinformatics study on multi-resistant bacteria that express β-lactamases	Carlos Polanco
Use of marine and freshwater cyanobacteria as biological control agents in agriculture	Francisca Suárez-Estrella
In vitro Efficacy of *Ocimum Basilicum* Essential oil extracted by Supercritical Carbon Dioxide on *Lactococcus garviae*. Preliminary Results	Raffaella Barbero
Remineralization effect of hydroxyapatite and its potential for substituting fluoride in dentifrice	Ivana Sutej
Effects on cell viability, growth and morphology of *C. albicans* SC5314 biofilms after kINPen®09 plasma treatment	Oliver Handorf
Ureolitic and arginolitic activity of dental plaque and saliva and the influence over the bacteria abundance in samples taken from children with or without caries	Gustavo Moncada
Antimicrobial effect of cinnamaldehyde, carvacrol and thymol and their combined effect with penicillin and trimethoprim-sulfamethoxazole against resistant *Streptococcus suis* strains	Belén Huerta Lorenzo