The most recent advances in fighting bacteria living in biofilms and in conferring antibacterial and antibiofilm properties to implanted biomaterials, the latest in reducing host’s risk factors, with a specific focus on nutritional factors, will be presented and discussed by some of the leading experts in the field.

We are happy to welcome all participants and guests in the old and modern Milano, with its charming and elegant flavor still enriched by EXPO 2015, the worldwide exposition, hosted again in the economical and financial capital of Italy, after more than a century...

We look forward to seeing you in Milano!

Lorenzo Drago - Enzo Meani - Carlo L. Romanò

The Conference is being accredited by Health Ministry and Eucomed
Categories:
Orthopaedic Surgeon, Microbiologist, Odontologist, Biologist, Healthcare Assistant, Nurses, Laboratory Technician, Orthopaedic, Virologist, Biologist, Surgeon’s Assistant, Infectious Disease Specialist, Traumatology, General Surgery, Physiotherapist, Radiology
N. 7.5 ECM
The event was partially funded by the European Union Seventh Framework Programme FP7/2007-2013 under the IDAC project (grant agreement n° HEALTH-F3-2011-277988)
<table>
<thead>
<tr>
<th>Accetta Riccardo (Italy)</th>
<th>Kirienko Alexander (Italy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alizadeh Chingiz (Azerbaijan)</td>
<td>Kirketerp-Moeller Klaus (Denmark)</td>
</tr>
<tr>
<td>Aloi Domenico (Italy)</td>
<td>Lob Guenter (Germany)</td>
</tr>
<tr>
<td>Argenson Jean Noel (France)</td>
<td>Logoluso Nicola (Italy)</td>
</tr>
<tr>
<td>Ascione Tiziana (Italy)</td>
<td>Lovati Arianna (Italy)</td>
</tr>
<tr>
<td>Baldini Andrea (Italy)</td>
<td>Malizos Kostantinos (Greece)</td>
</tr>
<tr>
<td>Banfi Giuseppe (Italy)</td>
<td>Mariconda Massimo (Italy)</td>
</tr>
<tr>
<td>Berlusconi Marco (Italy)</td>
<td>Massin Philippe (France)</td>
</tr>
<tr>
<td>Borghi Elisa (Italy)</td>
<td>Mattina Roberto (Italy)</td>
</tr>
<tr>
<td>Bösebeck Hans (Germany)</td>
<td>Meani Enzo (Italy)</td>
</tr>
<tr>
<td>Brayda Bruno Marco (Italy)</td>
<td>Morace Giulia (Italy)</td>
</tr>
<tr>
<td>Burasserto Giorgio (Italy)</td>
<td>Morgan Jones Rhidian (United Kingdom)</td>
</tr>
<tr>
<td>Cabitza Paolo (Italy)</td>
<td>Pellegrini Antonio (Italy)</td>
</tr>
<tr>
<td>Cadossi Matteo (Italy)</td>
<td>Pierro Margherita (Italy)</td>
</tr>
<tr>
<td>Calori Giorgio Maria (Italy)</td>
<td>Pignataro Lorenzo (Italy)</td>
</tr>
<tr>
<td>Caola Iole (Italy)</td>
<td>Randelli Filippo (Italy)</td>
</tr>
<tr>
<td>Capanna Rodolfo (Italy)</td>
<td>Riccio Giovanni (Italy)</td>
</tr>
<tr>
<td>Capuano Nicola (Italy)</td>
<td>Romanò Carlo Luca (Italy)</td>
</tr>
<tr>
<td>Clauss Martin (Switzerland)</td>
<td>Romano’ Delia (Italy)</td>
</tr>
<tr>
<td>Clementi Massimo (Italy)</td>
<td>Romeo Eugenio (Italy)</td>
</tr>
<tr>
<td>Clerici Pierangelo (Italy)</td>
<td>Rossi Roberto (Italy)</td>
</tr>
<tr>
<td>Corradi Alberto (Italy)</td>
<td>Sandri Andrea (Italy)</td>
</tr>
<tr>
<td>Da Rin Ferdinando (Italy)</td>
<td>Scarponi Sara (Italy)</td>
</tr>
<tr>
<td>D’Anchise Roberto (Italy)</td>
<td>Soriano Alex (Spain)</td>
</tr>
<tr>
<td>Danita Adrian (Austria)</td>
<td>Stuyck Jose (Belgium)</td>
</tr>
<tr>
<td>De Vecchi Elena (Italy)</td>
<td>Tarantino Umberto (Italy)</td>
</tr>
<tr>
<td>Del Fabbro Massimo (Italy)</td>
<td>Taschieri Silvio (Italy)</td>
</tr>
<tr>
<td>Drago Lorenzo (Italy)</td>
<td>Tessarolo Francesco (Italy)</td>
</tr>
<tr>
<td>Felisati Giovanni (Italy)</td>
<td>Townsend Robert (United Kingdom)</td>
</tr>
<tr>
<td>Ferrando Marco (Italy)</td>
<td>Trampuz Andrej (Germany)</td>
</tr>
<tr>
<td>Franceschini Massimo (Italy)</td>
<td>Van Der Straeten Catherine (Belgium)</td>
</tr>
<tr>
<td>Francetti Luca (Italy)</td>
<td>Viganò Roberto (Italy)</td>
</tr>
<tr>
<td>Gallazzi Mauro (Italy)</td>
<td>Vogely Charles (The Netherland)</td>
</tr>
<tr>
<td>Gasbarra Elena (Italy)</td>
<td>Wagner Christof (Germany)</td>
</tr>
<tr>
<td>George David (United Kingdom)</td>
<td>Weinstein Roberto (Italy)</td>
</tr>
<tr>
<td>Giannini Sandro (Italy)</td>
<td>Winkler Heinz (Austria)</td>
</tr>
<tr>
<td>Haddad Fares (United Kingdom)</td>
<td>Zagra Luigi (Italy)</td>
</tr>
<tr>
<td>Iundusì Riccardo (Italy)</td>
<td>Zerbi Alberto (Italy)</td>
</tr>
<tr>
<td>Jahoda David (Czech Republic)</td>
<td>Zottola Enzo (Italy)</td>
</tr>
</tbody>
</table>
13.30 Presentations

Welcome and Introduction
G. Banfi - E. Bottinelli - E. Meani - L. Drago - C. L. Romanò

13.40 Session 1

Biofilms and Implant-Related Infections: the Basics
C. L. Romanò - H. Winkler

What a clinician should know about biofilm-related infections
C. Wagner

What we can learn from animal models
A. Lovati - C. L. Romanò - L. Drago

Social and economical impacts
K. Malizos

Medico-legal aspects in orthopaedics and trauma
M. Mariconda

Discussion
J. N. Argenson

14.30 Heraeus workshop

“Host matters!” Improving high risk patient management
H. Bösebeck - C. L. Romanò - A. Soriano

Host matters! The high risk patient and the role of infection risk factors
C. L. Romanò

Forty years of standard antibiotic prophylaxis: should we go a step forward?
A. Soriano

Antibiotic loaded bone cements: choosing the right one!
H. Bösebeck

Questions & Answers
Session 2

15.30

**Diagnosing Biofilm-Related Infections**
*L. Drago - A. Trampuz - R. Mattina*

- New and old serological findings in implant-related infections: should we trust them?
  *A. Soriano*

- Radiology and implant-related infections: tips and tricks
  *A. Zerbi*

- Imaging: is there a role for bone scan and PET scan?
  *M. Gallazzi*

- Combined Diagnostic Tool: a possible approach
  *C.L. Romanò*

- Discussion
  *K. Kirketerp - Moeller*

---

16.30

**Zimmer coffee workshop**

**New frontiers in peri-prosthetic joint infection diagnosis: Synovasure PJI**
*C. L. Romanò*

- Biomarkers today: the new frontier
  *L. Drago*

- Challenging diagnosis
  *A. Baldini*

- Synovasure® PJI clinical applications
  *G. Riccio*

- Zimmer Infection Management: what’s next?
  *M. Ferrando*

- Questions & Answers
Microbiological Diagnosis of Biofilm-Related Infections

M. Clementi - P. Clerici

Microbiological diagnosis: the limits of current technologies
R. Townsend

Sonication: pros and cons. Why not yet in every hospital?
M. Clauss

Microbiological practice: a survey of ISOC orthopaedic centers of excellence
L. Drago

Microbiological diagnostic protocol for prosthetic joint and fracture fixation devices infections from the Italian Association of Clinical Microbiologists (AMCLI)
I. Caola - F. Tessarolo - L. Drago

Microcalorimetry: from research to clinical application
A. Trampuz

Implants that feel bacteria: we are not so far
D. Jahoda

Discussion
R. Townsend

4i aperitive workshop

“MicroDTTect” Samples Transport and Processing System
L. Drago - S. Giannini

New evolution in collecting and processing microbiological samples
E. De Vecchi

Technical aspects of MicroDTTect
M. Pierro

The Policlinico San Donato experience
F. Randelli

The G. Pini Institute experience
G. M. Calori

The Rizzoli experience
M. Cadossi

Questions & Answers

GALA DINNER
Implant-Related Infections: Prevention Strategies
G. Morace - R. Capanna - R. Weinstein

Antibiotics and biofilms
A. Soriano

Antifungals and biofilms
E. Borghi

Antibiotic-loaded bone cement: what I like and what I don’t
F. Randelli

Cerament G as a prophylaxis for high risk patients and exposed fractures
U. Tarantino - E. Gasbarra - R. Iundusi

Antibiotic-PLLA coating in traumatology: research and clinical applications
M. Berlusconi

Implant coatings: rationale and reasons for a choice
E. Meani - C. L. Romanò

Dental Implant and biofilm prevention
L. Francetti

Anti-bacterial PRP: a possible new frontier?
S. Taschieri - M. Del Fabbro

Lecture: Infection in oncological implants: reducing their impact now!
R. Capanna

Discussion
K. Malizos
Session 5

10.15

**DAC**: Defensive Antibacterial Coating
Applications and Early Clinical Results
E. Meani - C. Van Der Straeten

- DAC® rationale and pre-clinical data
  - C. L. Romanò

- Our early clinical results in oncologic applications
  - R. Capanna

- Our Experience with the DAC® Hydrogel in THA patients at risk
  - N. Capuano

- DAC® in Trauma: The Department for Trauma Surgery Innsbruck early clinical results
  - A. Danita

- The Galeazzi Orthopaedic Institute experience
  - N. Logoluso - S. Scarponi - D. Romanò

- Cereteth University clinical results in Prosthetic and Trauma surgery
  - K. Malizos - P. Kiorpelidis - S. Chliapas

Questions & Answers

11.15

**Implant-Related Infections: Treatment Strategies in TJA**
P. Massin - S. Giannini

- Cementless one-stage revision: why not?
  - R. Morgan Jones

- Antibiotic-loaded bone grafts in one-stage treatment of infections
  - H. Winkler

- Two-stage revision with preformed antibiotic-loaded spacers: a > 10 year experience
  - C. L. Romanò

- One-versus two-stage: the French experience
  - P. Massin

- One-versus two-stage: results of a systematic review of the literature
  - D. George - F. Haddad

- The role of mega-implants
  - G. M. Calori

Discussion
E. Meani
12.30

**Session 6**

**Implant-Related Infections: Treatment Strategies in TRAUMA**

*R. Morgan Jones - A. Corradi*

- Optimization of the selection process of a type of surgery in patients with osteomyelitis
  *C. Alizadeh*

- External fixation as a salvage procedure for failed osteosynthesis
  *A. Kirienko*

- Large bone defects after infection, treatment with intramedullary spacers, as salvage procedure
  *G. Lob*

- Anti-biofilm strategies in chronic wound management
  *K. Kirketerp-Møller*

- Discussion
  *G. M. Calori*

13.30

**Bonalive - 4i lunch workshop**

**Bacterial growth inhibiting bioactive glass: a new approach to bone defect management in infections and high risk patients**

*G. M. Calori – L. Drago*

- Antibiofilm and antibacterial effect of BonAlive bioactive glass
  *L. Drago*

- Clinical experience with BonAlive at Torino hospital
  *D. Aloj*

- Clinical BonAlive experience in chronic osteomyelitis surgery
  *C. Alizadeh*

- Personal BonAlive experience and multicenter trial results
  *C. L. Romanò*

- Questions & Answers
14.30

Session 7

Special Cases Round Table

F. Da Rin - L. Drago - G. Lob - C.L. Romanò

SICOT Infection Committee: the foundation of an international network

F. Da Rin

What We Can Learn From This Case

Trauma
Joint prosthesis
Spine
Joint prosthesis
Joint prosthesis
Joint prosthesis
Joint prosthesis
Rheumatoid arthritis
Trauma
Joint prosthesis

R. Accetta
T. Ascione
M. Brayda-Bruno
G. Burastero - R. Rossi
R. D’Anchise
M. Franceschini
A. Pellegrini
G. Riccio
A. Sandri
R. Viganò
L. Zagra
E. Zottola

17.00

LET’S VISIT EXPO!
Session 8

**Milano Biofilm Meeting Young Award 2015**

J. Stuyck - P. Massin - E. Meani - H. Winkler

Basic Research MBM 2015 Award
Clinical Research MBM 2015 Award

**Short Oral Presentations**

FISH-based detection of bacteria in orthopedic implant-related infections  
W. Boot

Local prophylaxis of implant-related infections using a hydrogel as carrier  
W. Boot

A preliminary evaluation of treatment with dithiothreitol to improve bacterial recovery from tissue samples in osteoarticular and joint infections  
M. Bortolin

**Hands-on and Nurse Training course**

A new approach to surgery room disinfection [4i]  
Md & Nurse & Specialist

MicroDTTect [4i]  
Md & Nurse & Specialist

**Short Oral Presentations**

Potential effects of acetylcholine in the pathogenesis, biofilm formation and outcome of Candida albicans experimental infections  
D. Cirasola

Staphylococcal biofilm formation on the surface of three different calcium phosphate bone grafts - A qualitative and quantitative in-vivo analysis  
M. Clauss

Does pge1 vasodilator prevent orthopaedic implant-related infection in diabetes?  
Preliminary results in a mouse model  
A. Lovati
**Hands-on and Nurse Training course**

Cerament G [BoneSupport]
MD & Nurse & Specialist

PALAMIX® e PALACOS® R+G pro [Heraeus]
Md & Nurse & Specialist

DAC [Novagenit]
Md & Nurse & Specialist

---

**Short Oral Presentations**

Comparing retrieval efficacy of three methods for eluting microorganisms from central venous catheter biofilm  
F. Tessarolo

Bacteria against bacteria: anti-biofilm activity of a selected and patented bacterial compound and its potential role on biofilm-associated infections  
M. Toscano

In vivo study of gentamicin and vancomycin release from preformed spacers in infected total hip arthroplasty  
G. Trivellin

---

**Hands-on and Nurse Training course**

Cemex System [Tecres]
Md & Nurse & Specialist

PJI Management products: Synovasure® PJI & Disposables [Zimmer]
Md & Nurse & Specialist

Antibiotic-loaded bone cement and spacers [Biomet]
Md & Nurse & Specialist

---

**Ongoing Brunch, adjourn and salutation**
Synovasure® PJI

Alpha Defensin Test for Periprosthetic Joint Infection

Demand More From Your Diagnosis

High accuracy with 97% sensitivity and 96% specificity
Reproducible results not affected by antibiotics treatment
Quick results in 10 minutes
Easy to use. No laboratory needed

For more information visit synovasure.zimmer.com/eu or talk with your Zimmer sales representative


Lit. No. 06.02708.012
**Scientific Secretariat**

Dr. Nicola Logoluso  
Dr. Delia Romanò  
Dr. Marco Toscano  
Mobile: +39 3498374903

**Venue (Expo Area)**

The Hub Hotel  
Via Privata Polonia, 10  
20157 Milan - Italy  
Tel: +39 0278627000  
www.thehubhotel.com

**Conference Secretariat**

**Organization Office**

SANA S.r.L  
Via Della Majella, 4  
20131 Milan - Italy  
Sara Mobile: +39 3483486696  
Emanuela Mobile: + 39 3496715086

**REGISTRATION TO:**

biofilmcongress@gmail.com or Emanuela Mobile: + 39 349 6715 086