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 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)
FACULTY

Accetta Riccardo (Italy)
Alizadeh Chingiz (Azerbaijan)
Aloj Domenico (Italy)
Argenson Jean Noel (France)
Ascione Tiziana (Italy)
Baldini Andrea (Italy)
Banfi Giuseppe (Italy)
Berlusconi Marco (Italy)
Borghi Elisa (Italy)
Bösebeck Hans (Germany)
Brayda Bruno Marco (Italy)
Burastero Giorgio (Italy)
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Clauss Martin (Switzerland)
Clementi Massimo (Italy)
Clerici Pierangelo (Italy)
Corradi Alberto (Italy)
Da Rin Ferdinando (Italy)
D’Anchise Roberto (Italy)
Danita Adrian (Austria)
De Vecchi Elena (Italy)
Del Fabbro Massimo (Italy)
Drago Lorenzo (Italy)
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Iundusi Riccardo (Italy)
Jahoda David (Czech Republic)
Kirienko Alexander (Italy)
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Lob Guenter (Germany)
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Lovati Arianna (Italy)
Malizos Kostantinos (Greece)
Mariconda Massimo (Italy)
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Mattina Roberto (Italy)
Meani Enzo (Italy)
Morace Giulia (Italy)
Morgan Jones Rhidian (United Kingdom)
Pellegrini Antonio (Italy)
Pierro Margherita (Italy)
Pignataro Lorenzo (Italy)
Randelli Filippo (Italy)
Ricci Giovanni (Italy)
Romanò Carlo Luca (Italy)
Romano’ Delia (Italy)
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Rossi Roberto (Italy)
Sandri Andrea (Italy)
Scarponi Sara (Italy)
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Stuyck Jose (Belgium)
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Tessarolo Francesco (Italy)
Townsend Robert (United Kingdom)
Trampuz Andrej (Germany)
Van Der Straeten Catherine (Belgium)
Viganò Roberto (Italy)
Vogely Charles (The Netherland)
Wagner Christof (Germany)
Weinstein Roberto (Italy)
Winkler Heinz (Austria)
Zagra Luigi (Italy)
Zerbi Alberto (Italy)
Zottola Enzo (Italy)
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
Session 3

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
08.00  

**Session 4**

**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*
**10.15 European Project IDAC n. 277988 coffe workshop**

**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 Session 5**

**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-Moeller

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

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**

Md & Nurse & Specialist

**MicroDTTect**

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

12.00

Ongoing Brunch, adjourn and salutation
Synovasure® PJI
Alpha Defensin Test for Periprosthetic Joint Infection

High accuracy with 97% sensitivity and 96% specificity¹
Reproducible results not affected by antibiotics treatment¹
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

**CONGRESS INFO:**

**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

**SANA S.r.L**

Via Della Majella, 4  
20131 Milan - Italy  
Sara Mobile: +39 3483486696  
Emanuela Mobile: +39 3496715086

**Organization Office**

**REGISTRATION TO:**

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