“BIOFILM-RELATED INFECTIONS IN ORTHOPEDIC AND TRAUMA SURGERY. INTERNATIONAL COLLABORATIVE PROJECTS AHEAD”

Implant Disposable Antibacterial Coating (I.D.A.C.): a Novel Approach to Implant-Related Infections in Orthopaedics and Trauma Surgery. (Grant Agreement 277988)

Scientific Directors:
Lorenzo Drago - Carlo Luca Romanò

DECEMBER 13th-14th / 2013

THE HUB HOTEL - VIA PRIVATA POLONIA 10
MILAN - ITALY
13,30  Registration
14.00  Welcome and Introduction  
   E. Cremascoli, L Drago, C.L. Romanò

**Session 1**

**Impact of implant-related infections**  
P. Cabitza, V. Heppert

14.10  The latest from the registries about periprosthetic infection - an overview  
   L. Zagra - Italy
14.20  The economic impact of implant-related infections  
   K. Malizos - Greece
14.30  Challenges in the treatment of periprosthetic infections today  
   V. Heppert - Germany
14.40  Discussion

**Session 2**

**Understanding biofilm-related infections in orthopaedics**  
L. Drago, A. Soriano

15.00  The influence of biomaterials on bacterial colonization  
   C.L. Romanò - Italy
15.10  Biofilms and antibiotics  
   G. Riccio - Italy
15.20  Multi-resistant bugs in orthopaedics and limits of systemic treatment  
   A. Soriano - Spain
15.30  Bacterial biofilms and host defence  
   C. Wagner - Germany
15.40  Leucocytes and Platelets-potentials and clinical perspectives  
   D. Bettin - C. Wagner - Germany
15.50  Is there a role for systemic immuno stimulation?  
   F. Da Rin - Italy
16.00  Looking inside biofilms: C.M. analysis and evolving technologies  
   L. Drago - Italy
16.10  Biofilm-related fungal infections  
   G. Morace, E. Borghi, F. Perdoni, D. Cirasola Italy
16.20 Animal models of implant-related infections
V. Alt - Germany

16.30 Animal models and host-type in implant-related infections
A. Lovati, L. Monti, L. Drago, C.L. Romanò - Italy

16.40 Discussion

17.00 Coffee break

Session 3
Biofilm as a problem - Biofilm as a target
A. Corradi, K.Kirkterp-Moeller

17.20 Diagnosis of biofilm-related infection
O. Borens - Switzerland

17.30 Chemical biofilm debonding of bacteria
L. Drago - Italy

17.40 Staphylococcal IgM Enzyme-Linked Immunosorbent Assay for diagnosis of periprosthetic joint infections
L. Selan, R. Papa, M. Tilotta, A. Servello, A. Cellini, M. Artini - Italy

17.50 A new approach to chronic wounds and biofilms
K.Kirkterp-Moeller - Denmark

18.00 Biofilm detection through electrical impedance
D. Jahoda, T. Judl, J. Jahodovà, A. Zikmund, L. Krasny, P. Ripka - Czech Republic

18.10 Anti-biofilm agents: where are we?
C.L. Romanò - Italy

18.20 New therapeutic approaches against bacterial biofilm
M. Artini, R. Papa, M. Tilotta, E Parrilli, M.L. Tutino, A. Cellini, L. Selan - Italy

18.30 Discussion

19.00 End of day 1 - Summary and remarks
E. Meani, R. Mattina - Italy

20.30 Dinner
Session 4

Current treatment of implant-related infections: an overview
H. Winkler, D. Jahoda

08.00 Adherence-colonization-biofilms, “tempus fugit”
X. Flores, P. Corona, C. Amat - Spain

08.10 Antibiotic-loaded cement in prevention and treatment of implant-related infections
C.L. Romanò - Italy

08.20 The problem of cement removal in revision surgery -Tips and tricks
P. Randelli - Italy

08.30 Two-stage revision of infected prosthesis: is still the gold standard?
R. D’Anchise - Italy

08.40 One-stage uncemented revision of infected prosthesis
H. Winkler - Austria

08.50 Challenges in infected TKR
A. Baldini - Italy

09.00 Infection in osteosynthesis
R. Morgan-Jones - United Kingdom

09.10 The chamber induction technique (CIT) with megaprostheses for the treatment of post-traumatic bone defect
G.M. Calori, M. Colombo, C. Ripamonti, E. Malagoli, S. Mazzola, E. Mazza - Italy

09.25 Discussion

09.45 Coffee break

Session 5

From passive to active biomaterials. iDAC and anti-bacterial coatings
C.L. Romanò, K. Malizos

10.00 Implant coating: why and how?
M. Ulivi - Italy

10.15 Silver coating: a possibile solution for challenging cases
R. Capanna - Italy

10.30 iDAC production of resorbable hyaluronic acid hydrogels
G. Giammona - Italy
10.40 IDAC hydrogel rationale and basic concepts
   E. Meani - Italy

10.50 IDAC hydrogel in vitro results in Heidelberg
   U. Dapunt, G.M. Haensch - Germany

10.58 IDAC hydrogel in vitro results in Larissa
   K. Malizos - Greece

11.06 IDAC hydrogel in vitro results in Leuven
   L. Van Mellaert, W. Sigli, J. Stujck - Belgium

11.14 IDAC hydrogel in vitro results in Milano
   L. Drago - Italy

11.22 IDAC hydrogel and anti-bacterial bioglass: a successful marriage?
   F. Olilla - Finland

11.30 IDAC hydrogel: animal studies in Bologna
   G. Giavaresi, M. Fini - Italy

11.38 IDAC hydrogel: animal studies in Utrecht
   W. Boot, C. Vogely, D. Gawlitta - The Netherlands

11.46 Clinical trials
   K. Malizos - Greece
   C. Van der Straten - Belgium

11.54 Discussion

**Session 6**

**Round Table: An international network for biofilm-related infections**
   L. Drago, E. Meani

12.20 How to establish a successful international network to fight bone and joint infections
   G. Lob - Germany

12.30 Looking inside PJIs: the ISOC vision
   G. Banfi - Italy
   G. H. Westrich, T. Sculco - USA

12.45 Horizon 2020 and future research prospective
   C. Finocchiaro - Italy

12.55 Discussion

13.10 End of day 2 - Final remarks and adjourn
   L. Drago, C.L. Romanò - Italy

13.50 Light lunch and salutations
Speakers

V. Alt - Germany
C. Amat - Spain
M. Artini - Italy
A. Baldini - Italy
G. Banfi - Italy
D. Bettin - Germany
W. Boot - The Netherlands
O. Borens - Switzerland
E. Borghi - Italy
P. Cabitza - Italy
G.M. Calori - Italy
R. Capanna - Italy
A. Cellini - Italy
D. Cirasola - Italy
M. Colombo - Italy
P. Corona - Spain
A. Corradi - Italy
E. Cremascoli - Italy
R. D'Anchise - Italy
F. Da Rin - Italy
U. Dapunt - Germany
L. Drago - Italy
M. Fini - Italy
C. Finocchiaro - Italy
X. Flores - Spain
D. Gawlitta - The Netherlands
G. Giammona - Italy
G. Giavaresi - Italy
G.M. Hänsch - Germany
V. Heppert - Italy
D. Jahoda - Czech Republic
J. Jahodová - Czech Republic
T. Judi - Czech Republic
K. Kirkerp-Moeller - Denmark
L. Krasny - Czech Republic
G. Lob - Germany
A. Lovati - Italy
E. Malagoli - Italy
K. Malizos - Greece
R. Mattina - Italy
E. Mazza - Italy
S. Mazzola - Italy
E. Meani - Italy
L. Monti - Italy
G. Morace - Italy
R. Morgan-Jones - United Kingdom
F. Oliilla - Finland
R. Papa - Italy
E. Parrilli - Italy
F. Perdoni - Italy
P. Randelli - Italy
G. Riccio - Italy
C. Ripamonti - Italy
P. Ripka - Czech Republic
C.L. Romanò - Italy
T. Sculco - USA
L. Selan - Italy
A. Servello - Italy
W. Sigli - Belgium
A. Soriano - Spain
J. Stujck - Belgium
M. Tilotta - Italy
M.L. Tutino - Italy
M. Ulivi - Italy
C. Van der Straten - Belgium
A. Van Hengel - Belgium
L. Van Mellaert - Belgium
C. Vogely - The Netherlands
C. Wagner - Germany
G.H Westrich - USA
H. Winkler - Austria
L. Zagra - Italy
A. Zikmund - Czech Republic
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