“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

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**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, S. Vanhooren, J. Stuyck - 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. Olliila - 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 Straeten - 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, 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. Jahodovà - Czech Republic
T. Judl - Czech Republic
K. Kirkterp-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. Ollila - 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
S. Vanhooren - Belgium
A. Soriano - Spain
J. Stuyck - Belgium
M. Tilotta - Italy
M.L. Tutino - Italy
M. Ulivi - Italy
C. Van Der Straeten - Belgium
A. Van Hengel - Belgium
L. Van Mellaert - Belgium
C. Vogely - The Netherlands
C. Wagner - Germany
H. Winkler - Austria
L. Zagra - Italy
A. Zikmund - Czech Republic
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