3rd ESTROT CONGRESS
European Society of Tissue Regeneration in Orthopedics and Traumatology

Chairman:
Professor Peter Giannoudis
MD, FACS, FRCS

Program
10, 11, 12 July 2017
School of Medicine - University of Leeds
Dear Colleagues and Friends,

It gives me great pleasure to welcome you to the third ESTROT congress in Leeds, one of the recently voted 'best cities in Europe'! Our venue, the University of Leeds, has been awarded the title of the 'Best University' of the UK for 2017.

The congress aims to provide updated information on the latest developments and innovations in all aspects of tissue regeneration. You will be guided through this via a series of key note lectures, round table discussions, demonstration of surgical techniques, industry sponsored symposia and free paper presentations. A renowned faculty of experts ensures that the scientific content will be of the highest standard and the recent advances within this exciting field will be at your disposal.

I hope that you will enjoy your stay In Leeds and you will be inspired not only by the scientific content of the congress but also by our beautiful city.

Professor Peter Giannoudis MD, FACS, FRCS
Congress Chairman
Faculty

Prof. Aktuglu Kemal Izmir, Turkey
Prof. Arts Chris J. J. Maastricht, Netherlands
Prof. Aydingoz Onder Istanbul, Turkey
Prof. Bégué Thiéry Paris, France
Prof. Bentley George London, UK
Prof. Blokhuis Taco Maastricht, Netherlands
Prof. Bumbasirevic Marko Belgrade, Serbia
Prof. Calori Giorgio Maria Milan, Italy
Prof. Capanna Rodolfo Pisa, Italy
Mr. De Biase Pietro Florence, Italy
Ms. Douglas Helen Perth, Australia
Prof. Forriol Francisco Madrid, Spain
Mr. Foster Patrick Leeds, UK
Prof. Giannoudis Peter Leeds, UK
Prof. Guerado Enrique Malaga, Spain
Prof. Hangody Laszlo Budapest, Hungary
Prof. Hart Andrew Glasgow, UK
Mr. Harwood Paul Leeds, UK
Ms. Hernon Catherine Leeds, UK
Prof. Jones Elena Leeds, UK
Mr. Kanakaris Nikolaos Leeds, UK
Mrs. Kon Elizaveta Bologna, Italy
Prof. Krettek Christian Hannover, Germany
Prof. Marcacci Maurilio Bologna, Italy
Prof. Maroudias Nikolaos Nicosia, Cyprus
Mr. Mazza Emilio Milan, Italy
Prof. McCaskie Andrew Cambridge, UK
Prof. McGonagle Dennis Leeds, UK
Prof. Richardson James Oswestry, UK
Mr. Russell David Leeds, UK
Prof. Schmidmaier Gerhard Heidelberg, Germany
Prof. Simpson Hamish Edinburgh, UK
Prof. Soucacos Panayiotis Athens, Greece
Mr. Tosounidis Theo Leeds, UK
Prof. Verdonk René Gent, Belgium
Prof. Wiberg Mikael Umea, Sweden
Mr. Wilks Dan Leeds, UK
Mr. Wiper Jay Leeds, UK
Prof. Woods David Leeds, UK
Prof. Yang Xuebin Leeds, UK
Prof. Zimmermann Gerald Mannheim, Germany
Monday 10 July 2017- DAY ONE

8:00-8:45    Registration of participants
8:45-9:00    Welcome

PART A: TISSUE REGENERATION TECHNIQUES: STATE OF THE ART

CARTILAGE REGENERATION – HOW I DO IT (Video presentation)
Moderators:  G. Bentley, M. Marcacci

9:00-9:10    Mosaicoplasty - L. Hangody
9:10-9:20    ACI Chondrocyte transplantation - G. Bentley
9:20-9:30    Microfractures - F. Forriol
9:30-9:40    Scaffolds - E. Kon
9:40-9:50    Allograft Implantation - C. Krettek
9:50-10:15   Round Table Discussion

10:15-10:45   Key note Lecture: The role of Stem cells in bone repair
Current concepts and future directions
J. Richardson

10:45-11:05   Coffee break

BONE REGENERATION FOR CRITICAL SIZE DEFECTS- HOW I DO IT (video presentation)
Moderators:  H. Simpson, M. Bumbasirevic

11:05-11:15   Distraction osteogenesis - P. Harwood
11:15-11:25   Titanium cages - G. Schmidmaier
11:25-11:35   Masquelet Technique - P. Giannoudis
11:35-10:45   Megaprosthesis - G. M. Calori
11:45-11:55   Free Fibula - R. Capanna

11:55-12:15   Round table Discussion - All Faculty

12:15-12:45   Key note lecture: What’s New in Muscle Regeneration Techniques
T. Blokhuis
12:45-14:00  Lunch – Industry sponsor Symposia (30 minutes X2)
   First session:  Medtronic
   Second session:  DePuy Synthes

SKIN REGENERATION- HOW I DO IT (video presentation)
Moderator:  J. Wiper, P. Soucacos

14:00-14:10  Split skin graft  - D. Wilks
14:10-14:20  Dermal Matrices & Growth factors  - D. Russell
14:20-14:30  Derma scaffolds  - H. Douglas
14:30-14:40  Vascularised fasciocutaneous flaps  - J. Wiper

14:40-15:00  Round table discussion - All Faculty

15:00-15:30  Key Note Lecture: Past Present and Future in Tissue Engineering Techniques - C. Krettek

15:30-15:45  Coffee Break

15:45-16:05  Key Note Lecture: Neurobiology underpinning surgical nerve repair  
              A. Hart

NERVE REGENERATION- HOW I DO IT (Video presentation)
Moderators:  M. Wiberg, A. Hart

16:05-16:20  Autologous grafting  - C. Hernon
16:20-16:35  Nerve transfers  - D. Wilks
16:35-16:45  Discussion  - All Faculty

16:45-17:15  Key Note Lecture: Evolving techniques and future directions of nerve repair - M. Wiberg

17:15-17:30  Summary – Closure Day One

17:30-18:30  Annual General Meeting ESTROT
Tuesday 11 July 2017- DAY TWO

PART B: ROUND TABLES AND FREE PAPER SESSIONS

Free Paper Session I:
Moderators: O. Aydingoz, P. De Biase

8:30-8:40 Investigating Co-Culture of Periosteal and Bone Marrow Mesenchymal Stem Cells onto Bone Scaffolds for Critical Size Bone Defect Repair
**Presenter: H. Owston**

8:40-8:50 Immunophenotipization and cell quantity in bone marrow aspirate concentrate harvested from proximal tibia
**Presenter: D. Abazovic**

8:50-9:00 Identifying the key influencers on the inductive potential of PRP on BM-MSC proliferation
**Presenter: K. Moisley**

9:00-9:10 Nanostructure in the trabecular bone and inter-individual gene variants associated with trabecular bone plasticity of postmenopausal women
**Presenter: E. Guerado**

9:10-9:20 Investigation of the Total Number of Native Mesenchymal Stem Cells and their Gene Expression Levels from Osteoporotic and Osteoarthritic Femoral Heads. A new treatment strategy for osteoporosis?
**Presenter: R. Singh**

9:20-9:30 Discussion

9:30-10:30 Round table Discussion: Application of ‘fresh’ MSC’s for tissue repair - All I need to know
**Faculty: O. Aydingoz, R. Capanna, E. Jones, D. McGonagle, H. Simpson, X. Yang**

10:30-10:45 Coffee Break

10:45-11:00 BonAlive Key Note Lecture
FREE PAPER SESSION II
Moderators: L. Hangody, E. Mazza

11:00-11:10 Characterization of human multipotential stromal cells from fracture non-union patients; low levels of surface receptors for licensing cytokines
**Presenter: J. J. El-Jawhari**

11:10-11:20 Third-Generation Autologous Chondrocyte Implantation versus Mosaicplasty for Knee Cartilage Injury: two year randomized trial
**Presenter: A. Clavé**

11:20-11:30 Understanding healthy ageing in bone marrow resident mesenchymal stem cells (MSCs)
**Presenter: P. Ganguly**

11:30-11:40 The effect of cobalt on adhesion molecule expression: a potential mechanism for leukocyte infiltration
**Presenter: S. Anjum**

11:40-11:50 Treatment of AVN using the chamber induction technique and biotechnologies: indications and clinical results
**Presenter: M. Colombo**

11:50-12:00 Discussion

12:00-13:00 **Round Table Discussion: Scaffolds -Bone synthetics – How to choose the right option for my needs**
**Faculty: C. Arts, T. Blokhuis, L. Hangody, N. Kanakaris, E. Kon, E. Jones, D. Woods**

13:00-14:15 **Lunch Symposium BonAlive**

FREE PAPER SESSION III
Moderators: T. Tosounidis, D. Woods

14:15-14:25 A collagen crosslinked sponge provides an enhanced support for attachment, osteogenesis and angiogenesis of human bone marrow multipotential stromal cells
**Presenter: J. J. El-Jawhari**

14:25-14:35 Autologous cartilage scaffold in osteochondral lesions: a new concept
**Presenter: D. Abazovic**
14:35-14:45 The Highly Proliferative Mesenchymal Cell Fraction: A Novel Subpopulation
**Presenter: I. Pountos**

14:45-14:55 The chamber induction technique (C.I.T.) in the use of bone transport to improve the regenerative quality and to heal the septic condition
**Presenter: M. Colombo**

14:55-15:05 The chamber induction technique (C.I.T.) for reconstruction and prosthesis
**Presenter: G.M. Calori**

15:05-15:15 Discussion

15:15-16:15 **Round Table Discussion – Use of growth factors in tendon and ligament repair – Do they work?**
**Faculty: M. Bumbasirevic, F. Forriol, N. Maroudias, P. Soucacos, R. Verdonk, G. Zimmermann**

16:15-16:30 **Coffee break**

16:30-16:50 **Key Note Lecture: Strategies to predict fracture non-union: an update**
**T. Bégué**

**FREE PAPER SESSION IV**
**MODERATORS: N. Kanakaris, G. Zimmermann**

16:50-17:00 Infected non-union and critical bone defects of the forearm
**Presenter: G. M. Calori**

17:00-17:10 Efficacy of bio-active glass BAG-S53P4 for the reconstruction of segmental bone defect of septic origin: a comparative study
**Presenter: T. Bégué**

17:10-17:20 Distal Leg Septic nonunion and bone defects associated to soft tissue problems: regenerative medicine and plastic surgery
**Presenter: G. M. Calori**

17:20-17:30 The Strategy in the treatment on humeral septic nonunions and critical size bone defect
**Presenter: E. Mazza**
17:30-17:40 The role of megaprosthesis in the treatment of septic non unions and critical size bone defects
   **Presenter:** G. M. Calori

17:40-17:50 Discussion

17:50-18:00 Summary and Closure

19:30 **Congress Dinner**

**Wednesday 12 July 2017 – DAY THREE**

**PART C: ROUND TABLES AND FREE PAPER SESSIONS**

8:00-9:00 **Round Table Discussion:** Preventative strategies for Bone Infection:
   From prophylactic antibiotics to coated implants- bio-glass, antibiotic loaded scaffolds and much more; But Do they work?
   **Faculty:** K. Aktuglu, T. Bégué, M. Bumbsirevic, P. Foster, E. Guerado, G. Schmidmaier, P. Soucacos

09:00-9:30 **Key Note Lecture:** The role of megaprosthesis in the treatment of infected Long bone non-union and bone defects: What have we learned
   **G. M. Calori**

**FREE PAPER SESSION V**
Moderators: **K. Aktuglu, N. Maroudias**

9:30-9:40 Two column classification of tibial plateau fractures; description, clinical application and reliability
   **Presenter:** A. Anwar

9:40-9:50 Is the non-union scoring system classification (NUSS) still valid to describe the case of septic failures?
   **Presenter:** M. Colombo
9:50-10:00  COMplex Fracture Orthopedic Rehabilitation (COMFORT) - Ambulatory monitoring of rehabilitation patterns after proximal femur fractures in elderly  
**Presenter:** M. Raaben

10:00-10:10  Comparative evaluation of microDTTECT device and flocked swabs in the diagnosis of prosthetic and orthopedic infections  
**Presenter:** M. Colombo

10:10-10:20  Discussion

10:20-10:45  Coffee break

10:45-11:45  Round Table Discussion – Early osteoarthritis and biological response modifiers: What can we expect?  
**Faculty:** O. Aydingoz, F. Forriol, L. Hangody, A. McCaskie, P. Soucacos

11:45-12:15  Keynote lecture: Meniscus Allograft or Meniscus Regeneration?  
**R. Verdonk**

12:15-13:00  Poster Round Presentation

13:00-13:45  Lunch

13:45-14:00  Closure and Prize presentation
MAIN EXHIBITORS (as of May 25th)

GOLD

BonAlive
BiOMATERIALS LTD

DePuy Synthes
PART OF THE
J ohnson-Johnson FAMILY OF COMPANIES

EXHIBITORS (as of May 25th)

Arthrex

bioventus

Cerapedics

Enhancing the Science of Bone Repair

Heraeus

Kuros

Joint Operations

Medtronic
Further, Together

SI-BONE

smith & nephew
INFORMATION

VENUE
Leeds Medical School
Worsley Building,
Floor 7
Clarendon Road
Leeds - UK

REGISTRATION (taxes included)

Medical Doctors £ 225,00 - € 290,00 for 3 days
 £ 100,00 - € 130,00 for 1 day
Scientistst and Researchers £ 100,00 - € 130,00
Medical Students Free
Industry Attendees £ 150,00 - € 190,00
Social dinner £ 50,00 - € 65,00

Fees are taxes included and increased by £ 44 - € 50 after 10/06/2016

Cancellation Policy: Registration fees are non refundable

Registration fee includes:
Participation to scientific sessions.
Congress bag, lunch and coffee breaks
Badge and certificate of attendance

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