

E.S.T.R.O.T. 7 CONGRESS TH

FROM BENCH TO PATIENT BEDSIDE:
LATEST ADVANCES AND INNOVATIONS
IN TISSUE REGENERATION AND REPAIR



PRELIMINARY PROGRAM

CHAIRMAN: INGO MARZI



Bone regeneration
Cartilage regeneration
Nerve and muscle regeneration
Soft tissue reconstruction
Fracture related infection
Surgical techniques

3-5 JULY 2023 - FRANKFURT, GERMANY

TOPICS

— BONE REGENERATION

Non-union, bone defects, bone voids, avascular necrosis. The role of stem cells, Scaffolds, Growth factors, Composite grafts, Physical stimulation

— CARTILAGE REGENERATION

Matrices, scaffolds, chondrocyte re-implantation, biological response modifiers

— NERVE AND MUSCLE REGENERATION

Latest advances

— SOFT TISSUE RECONSTRUCTION

VAC devices, growth promoting factors
Artificial skin, composite flaps

— FRACTURE RELATED INFECTIONS

Preventative strategies for bone infection
Modern treatment of osteomyelitis

— SURGICAL TECHNIQUES TO IMPROVE OUTCOMES

Osteosynthesis, distraction, arthroplasty



E.S.T.R.O.T.

European Society of Tissue Regeneration in Orthopaedics and Traumatology

BOARD

PRESIDENT:

Prof. Peter V. Giannoudis
Leeds, United Kingdom

PAST PRESIDENT:

Prof. Gerhard Schmidmaier
Heidelberg, Germany

TREASURER:

Prof. Thierry Bégué
Paris, France

ESTROT AMBASSADOR:

Scientific Committee Chair
Prof. Giorgio M. Calori
Milan, Italy

OBJECTIVES

The objectives of the Society are:

To relieve sickness in particular by advancing and promoting education and research in the treatment of musculoskeletal disorders.

To cover all matters relating to the progress and development of the field of tissue regeneration including surgery of bone, cartilage, muscle, nerve, skin, imaging techniques, rehabilitation and other related medical specialities.

To disseminate the useful results of tissue regeneration research into the medical profession.

To promote audit of hard and soft tissue reconstruction in relation to patient outcomes.

To guide European Tissue Regeneration Policies and to guide alliances of similar organisations from other continents.

INVITED SPEAKERS

Amling Michael Hamburg DE

Arts Chris Maastricht NL

Bégué Thierry Paris FR

Bläser Andreas Darmstadt DE

Blokhuis Taco J. Maastricht NL

Boecker Wolfgang München DE

Brune Jan Berlin DE

Buehren Volker Murnau DE

Calori Giorgio Milan IT

Duda Georg Berlin DE

El Khassawna Thaqif Giessen DE

Ferracini Riccardo Torino IT

Frank Johannes Frankfurt DE

Gebhardt Florian Ulm DE

Gelinsky Michael Dresden DE

Ghanaati Shahram Frankfurt DE

Giannoudis Peter Leeds UK

Grässel Susanne Regensburg DE

Grillari Johannes Wien AT

Guerado Enrique Malaga ES

Hildebrand Frank Aachen DE

Hirche Christoph Frankfurt DE

Henrich Dirk Frankfurt DE

Holzapfel Boris München DE

Hofmann Gunther Jena DE

Ignatius Anita Ulm DE

Imhoff Andreas München DE

Kobbe Philipp Aachen DE

Löhning Max Berlin DE

Marzi Ingo Frankfurt DE

Madry Henning Homburg DE

Ollila Fredrik Turku FI

Poeze Martijn Maastricht NL

Putzeys Guy Kortrijk BE

Redl Heinz Wien AT

Rosado Balmayor Elizabeth Aachen DE

Schmidmaier Gerhard Heidelberg DE

Trampuz Andrej Berlin DE

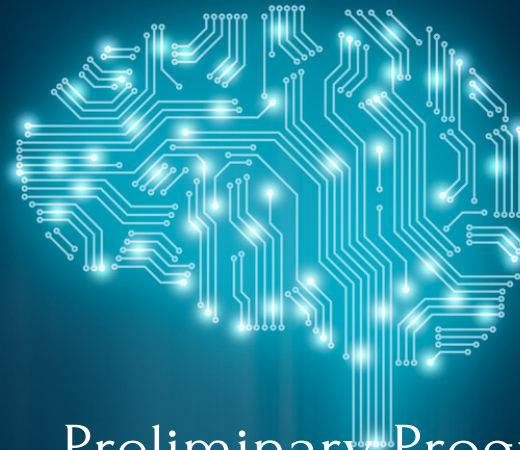
Van Griensven Martijn Maastricht NL

Van Osch Gerjo Rotterdam NL

Wildemann Britt Jena DE

Zaucke Frank Frankfurt DE

Zimmermann Gerald Mannheim DE



Preliminary Program

CONGRESS PRESIDENT:
Prof. Dr. Ingo Marzi

Department of Trauma, Hand, and Reconstructive Surgery
and Department of Orthopedics
University Hospital
Goethe-University Frankfurt
Theodor-Stern-Kai 7
D-60590 Frankfurt / Main
Tel. (+49) 69 6301 6123
Fax (+49) 69 6301 6439
marzi@trauma.uni-frankfurt.de



Monday, July 3, 2023

09:30 Registration

10:25 Welcome Opening – P. Giannoudis, I. Marzi

10:30 Session I: Bone Healing - New Insights

Chairmen: I. Marzi, J. Grillari

10:30. New insights in the pathophysiology of bone healing - G. Duda

10:45 Mast cells – Crucial modulators of fracture healing - A. Ignatius

11:00 Role of microRNA in fracture healing environment: Still important? - M. van Griensven

11:15 Tubular structures improve experimental bone healing - D. Henrich

11:30 Situation after metal ion overload in metal/metal articulation: Is there a local bone regeneration T. Mittlmeier

11:45 Session II: Free Paper Session (6 min each)

12:30 Working Lunch Break - Industry Workshop (45 minutes)

13:30 Poster Presentations

14:00 Session III: Scaffolds - New Structures

Chairman: H. Redl, F. Gebhard

14:00 3D printing and bioprinting of complex osteochondral constructs - M. Gelinsky

14:15 Bioprinting – update - A. Bläser

14:30 Bioprinting with new filaments - J. Neijhoft

14:45 Surgical treatment of traumatic bone defects using 3D printed scaffolds - M. Poeze

15:00 Session IV: Free Paper Session (6 min each)

15:30 Industry Session: Keynote Lecture 20 minutes - 5 minutes Discussion

16:00 Coffee Break

16:30 Session V: Cartilage Repair - Latest Advances

Chairman: G. van Osch, F. Zaucke

16:30 Translational Cartilage Regeneration: From matrices to biological response modifiers - H. Madry

16:45 Autologous adipose tissue extract for the treatment of osteoarthritis: A 5 year follow up experience - R. Ferracini

17:00 Articular Cartilage Repair via Extracellular Vesicles - S. Grässel

17:15 Hydrogels and how their properties influence cartilage repair - G. van Osch

17:30 Session VI: Free Paper Session (6 min each)

19:00 Welcome Reception - Senckenberg Museum, Frankfurt

7:30 ESTROT BOARD MEETING

8:30 Session VII: Infection Still an Unresolved Issue?

Chairman: P. Giannoudis, G. Hoffmann

8:30 Diagnostic of fracture related infection update of current evidence - A. Trampuz

8:45 Old and new way to treat osteomyelitis: Antibiotics and beyond - various biomaterials for osteomyelitis treatment - C. Arts

9:00 Implant modification to prevent infection - B. Wildemann

9:15 Prophylaxis and treatment of FRI by local AB delivery with bone chips - G. Putzeys

9:30 Session VIII: Free Paper Session (6 min each)

9:50 Industry Session: Latest Innovations in Infection - Keynote Lecture 20 minutes - 5 minutes Discussion

10:20 Coffee Break

10.45 Session IX: Fracture Non-union - Can we do better?

Chairman: G. M. Calori, V. Bühren

10:45 Treatment of bone defects and non unions; more than autografts - T. Blokhuis

11:00 Non union: Molecular genetics and therapeutic osteology - M. Amling

11:15 Giannoudis: When and how I use the diamond concept? - P. Giannoudis

11:30 The NUSS (non union scoring system) classification and the Algorithm of treatment - G. M. Calori

12:00 Session X: Free Paper Session (6 min each)

12:30 Session XI: Video Lunch Session: Surgical Techniques (Video)

Chairman: P. Giannoudis, C. Josten

12:30 AVN

12:40 Magaprosthesis

12:50 Masquelet

13:00 Injection of stem cells and PRP

13:10 Discussion

13:15 Working Lunch Break - Industry Workshop (45 minutes) open

14:00 Session XII: Pathphysiology of musculo-skeletal healing

Chairman: H. Redl, E. Rosado Balmayor

14:00 Cellular mechanisms involved in cartilage and bone (re)generation - G. van Osch

NOS inhibition reverses TLR2-induced chondrocyte dysfunction and attenuates age-related osteoarthritis - M. Löhning

14:15 Circulating miRNAs in bone health and disease (Grillari)

14:30 Tendon healing can it be upgraded - D. Docheva

14:45 Session XIII: Free Paper Session (6 min each)

15:30-16:00 Coffee Break

16:00 Session XIV

16:45 Session XV: Biological Approaches to Cartilage and bone preservation

Chairman: A. Imhoff, T. Begué

16:45 The main problem of osteopenic bone in hip fracture is protein - E. Guerado

17:00 Cartilage cell transplantation - P. Niemeyer

17:15 Do stem cells work? - I. Marzi

17:30 Stem cell therapy in fracture healing - W. Boeker

17:45 Surgical Treatment of cartilage defects: What's new? - A. Imhoff

19:00 Faculty Dinner - Social Evening for all delegates

8:30 Session XVI: BONE DEFECT TREATMENT: surgical and new translational approaches

Chairman: F. Hildebrand, G. Schmidmeier

8:30 The current way of 'Masquelet Technique' - T. Bégué

8:45 New Insights in Masquelets technique- insights from translational research - C. Nau

9:00 Convergence of scaffold guided bone regeneration and RIA bone grafting - P. Kobbe

9:15 Bone substitute materials in the context of digital medicine - T. El Khassawna

9:30 Round Table Discussion

10:00 Coffee break

10:30 Awards Ceremony

11:00 Session XVII: The interaction of soft tissue and bone regeneration

Chairman: J. Frank, P. Giannoudis, T. Begue

11:00 Composite flaps in soft and bone tissue - C. Hirche

11:15 Perspective Lecture: Bone Reconstruction - H. Redl

11:30 PRF in soft tissue and bone repair - S. Ghanaati

11:45 Round Table Discussion

12:15 Closure

Lunch Packages

REGISTRATION

| REGISTRATION FEES (VAT included) | UNTIL 31/05/2023 | FROM 01/06/2023 |
|---------------------------------------|------------------|--|
| Medical Doctors Member | 200,00 € | 250,00 € |
| Medical Doctors - Non Member | 350,00 € | <ul style="list-style-type: none">• € 400,00• Joining ESTROT membership will imply members registration fee |
| Scientist, Residents and Researchers | 75,00 € | 100,00 € |
| Students, Physiotherapists and Nurses | 50,00 € | 75,00 € |
| Exhibitors | 150,00 € | 200,00 € |
| One day registration Member | 100,00 € | 150,00 € |
| One day registration Non Member | 150,00 € | 200,00 € |
| SOCIAL DINNER | tbd | tbd |

*E.S.T.R.O.T. MEMBERSHIP FREE FOR 2023!

AWARDS

| AWARDS FOR CLINICIANS | |
|-----------------------|------------|
| Free papers | |
| Gold | € 1.000,00 |
| Silver | € 500,00 |
| Bronze | € 250,00 |
| Poster | € 250,00 |
| AWARDS FOR SCIENTISTS | |
| Free papers | |
| Gold | € 1.000,00 |
| Silver | € 500,00 |
| Bronze | € 250,00 |
| Poster | € 250,00 |

LOCATION



University Hospital Frankfurt am Main
Theodor-Stern-Kai 7
Frankfurt 60590
Germany

OFFICIAL ORGANIZATIONAL BUREAU



KEEP INTERNATIONAL SRL

HEADQUARTERS

Via G. Vigoni 11
20122 , Milan
Italy

E - MAIL ADDRESS

estrot@keepinternational.net

TEL .

+39 02 54122513



For scientific questions, please contact
Prof. Dr. Ingo Marzi
marzi@trauma.uni-frankfurt.de



WWW.ESTROT.ORG
WWW.KEEPINTERNATIONAL.NET