

re^generate

BIO SPINE

8th

International Congress
on Biotechnologies
for Spinal Surgery



FIRST ANNOUNCEMENT

Florence

May 4-6, 2022

Istituto degli Innocenti
Piazza SS Annunziata

www.biospine2022.org

International Congress on Biotechnologies for Spinal Surgery - BioSpine was founded at the suggestion of Dr. Hans Jörg Meisel, President of the REGENERATE Europe in 2002. Since its inception in 2002, seven successful meetings have been organized by Dr. Meisel, founder and Chair BioSpine. Dr. Gianluca Vadalà, and Dr. Marianna Tryfonidou have been instrumental in organizing the recent meetings. BioSpine7 meeting held in 2019, focused on the novel biotechnologies applied to spine surgery, promoting mutual collaboration between different specialists and scientists involved in spine field. BioSpine is constantly supported by REGENERATE Europe which is an independent professional Association devoted to the interdisciplinary dialogue in Regenerative Medicine and Tissue Engineering formed by Dr. Hans Jörg Meisel, BG Bergmannstrost Clinic, Halle; Dr. Gudrun Knedlitschek, Karlsruhe Institute of Technology, Karlsruhe; Dr. Dieter Falkenhagen, Donau University Krems, Austria and Dr. Christian Herbst legal advisor, Berlin in 2005 as a European Economic Interest Grouping (EEIG). In 2012 the EEIG has been changed to Regenerate Europe registered association so as to allow natural persons to join the network.

BioSpine strives to deliver the up-to-date knowledge in the spine field to augment competencies and transform clinical practice and improve patients' lives.

The objectives of BioSpine shall be:

- To advance knowledge on novel and innovative biotechnology applications in spine care
- To provide continuing medical education for medical specialists and students
- To promote mutual collaboration between different medical specialists, scientists and industrial partners internationally

MAIN TOPICS

Cellular Basis of Disc Degeneration

Biomechanics in Disc Degeneration

Stem cell Therapies for Low back pain

Biomaterial strategies for repair of the disc

Low back pain - what is the source of pain?

Ex vivo models of disc Degeneration - use for testing novel therapies

Navigation and robotics for spine surgery

Gene Editing/CRISPR - will it be of relevance for the spine?

Patient related outcomes vs. surgical outcomes

Spinal Fusion

REGENERATION

Disc regeneration
Annulus fibrosus repair
Bone fusion
3D bio-printing

NEW IMPLANT MATERIALS

Polymers
Metal alloys

TECHNOLOGY

Artificial Intelligence
Big data
Robotics

SPINEAL SURGERY

3D printed implants
MISS and Endoscopy
Injection techniques

REGULATORY

MDR 2020
How to deal with Regulatory Authorities?

INDUSTRY

Interaction with industry
Sustainability in instrument and implant
production
How do we prepare physicians to interact
with industry?

DEBATES

Stem cells for disc repair
Is acellular disc repair the future?
Is annulus repair needed?

RESEARCH GROUPS

How to avoid redundancies in spinal
research?

AO SPINE

AO GO Guidelines for Osteobiologics
BoNE Classification
DegenPro

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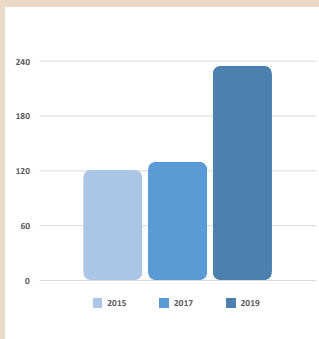
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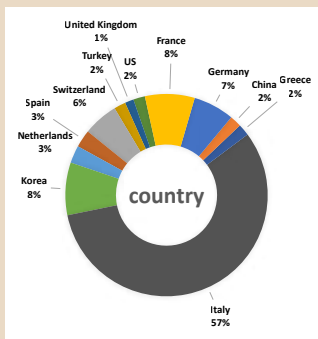
Daisuke Sakai
Dino Samartzis
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Gianluca Vadalà
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FEW STATISTICS

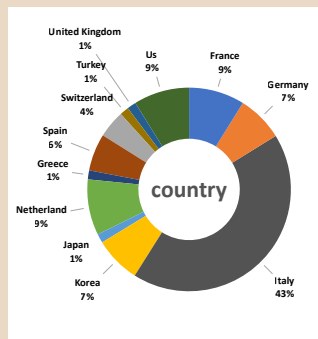
BIOSPINE 2019 - PARTICIPANTS
PARTICIPANTS INCREASE



BIOSPINE 2019 - PARTICIPANTS
COUNTRY PERCENTAGE



BIOSPINE 2019 - FACULTY
COUNTRY PERCENTAGE



CONGRESS VENUE

Florence, one of the most beautiful and visited art cities in the world, is an Open-air museum, placed in the UNESCO's World Heritage List since 1982.

In the fifteenth-century Florence, a self-governed, independent city-state with a population of 60.000, became the cradle of Renaissance culture thanks to its writers, painters, architects and philosophers. Nowadays, Florentine museums, palaces and churches represent some of the greatest artistic treasures in the world.

"Biospine 2022" will be hosted in a really fascinating location, the **"Istituto degli Innocenti"**, a spectacular project of Filippo Brunelleschi, considered the first engineer and designer of the modern age, one of the three great initiators of the Florentine Renaissance with Donatello and Masaccio. At the time when the Institute was established, during the first half of the fifteenth century, it was the first institution in the known world devoted exclusively to child care and has worked uninterruptedly for over six centuries to help children and families.

With such relevant philosophical and scientific inheritance, with its beautiful Mediterranean climate, good and healthy food and great shopping, Florence is the ideal place to host BIOSPINE 2022.

We look forward to meeting you in this unique place, ranked by Forbes as one of the most beautiful cities in the world!



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ACKNOWLEDGMENTS

We greatly appreciated the support that our Sponsors provided for the 7th International Congress on Biotechnologies for Spinal Surgery (BioSpine 7)

Major Sponsors



Exhibitors and Sponsors



**The long term Partners and the new Sponsors joining
8th Biospine will be welcome!**

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