



NEWSLETTER ISSUE 4

Welcome...

to the 4th issue of our SBR newsletter! With this newsletter series, we will take you with us on our exciting journey to improving treatment options and shorten the recovery time for patients with large bone defects. The SBR bone regenerative solution reduces the risk of post-operative complications such as failure of the conventionally used metal work, infection, and failure of consolidation of the regenerate bone. We will give you an update on our latest progress along with numerous links for more information about our project. Have fun reading!

[Link to the SBR Newsletter Subscription](#)



AO Research Institute Davos (ARI) Joins SBR

The SBR consortium would like to welcome AO Research Institute Davos (ARI) - AO Foundation to the SBR consortium.

The AO (Arbeitsgemeinschaft für Osteosynthesefragen) is a medically-guided, not-for-profit organization specialised in education, innovation, and research of surgical treatment of trauma and musculoskeletal disorders. The AO's mission is to promote excellence in patient care and outcomes in trauma and

musculoskeletal disorders.

As part of the AO, the AO Research Institute (ARI), located in Davos, Switzerland, aims to advance innovation in orthopedics through translational research and development. Research is conducted in several focus areas including regenerative orthopaedics, biomedical development, and musculoskeletal infection.

The preclinical services are an important part of the ARI, including the preclinical facility, preclinical surgery and tissue morphology. The ARI's preclinical facility performs in-vivo studies tailored to specific research questions in collaborative projects with different programs of the ARI, AO clinicians, AO industrial partners and external institutions. The institute also assists researchers starting from project design to data analysis and publication, while continuously refining their models and methodologies.

The ARI is accredited with several ISO certifications and can conduct preclinical studies of the highest quality due to accreditation by the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) and the Good Laboratory Practice (GLP) certification.

ARI's Role within the SBR Consortium:

The role of the ARI is two-fold. Within the preclinical services, the main role is to plan, prepare and conduct the in-vivo animal study. This is an important step to adapt the results of the in-vitro research in the laboratory to the living organism, before the new technology can be introduced to human medicine. The institution will take part in the design of the animal study; they will refine the methodology and the surgical technique to successfully implant the new product. The study application has been approved by the ethical commission and ARI makes sure that the welfare of the animals during the study is guaranteed.

The animals are operated by specialists with anaesthesia and analgesia protocols that meet human standards. After the surgery, animal subjects are followed by experienced veterinarians and animal care takers. To monitor bone healing, X-rays and CT scans are regularly performed by an imaging specialist. Conducting in-vivo studies represents a crucial research development step that demands the utmost responsibility and the highest standards of reproducibility.

The second role of ARI is to perform the biomechanical testing of the operated bones in their in-house biomechanical laboratory by using tailored test procedures that involve motion tracking systems.

[Click here for more information on ARI](#)



3rd Project Meeting: Berlin, Germany

On 15th and 16th of May 2023, the SBR consortium came together for its third progress meeting in Berlin, Germany. The progress meeting, hosted by the project partner EURICE, facilitated discussions of current activities, findings and work completed, and ensured that the scientific work and future collaborations are aligned for the remaining project duration.

Summary of the 3rd Progress Meeting



Cluster Collaboration Meeting in DAVOS

The 33rd Annual Conference of the European Society for Biomaterials (ESB) brought 1,200 international researchers and innovators together at the famous Conference Center in Davos, Switzerland. The overall aim of this Cluster Collaboration with other

related projects in the field of biomaterials is to maximise impact and drive innovation by forming new bonds and collaborations. SBR, represented by EURICE participated in a joint meeting to promote interactions and collaborations between researchers, educators, clinicians, and industry representatives interested in biomaterials.

[Click here for more information](#)



SPOTLIGHT

▷ **Our early-stage researchers**



Konstantina Solou
Resident in Orthopaedic surgery
and Traumatology,
Research on hip biomechanics

University of Patras

As an orthopaedic surgeon, I am interested in better understanding biomechanical properties of the bones and implement this knowledge in my clinical practice. As a scientist, I work to improve lives.



Early-Stage Researcher Interview Series

The SBR Early-Stage Researchers interview series highlights the young minds behind the project. Read their stories and discover the expertise, motivations and dreams of the next generation of researchers.

[Click here for more Early Researcher Interviews](#)

Upcoming Events



[German Society of Gene Therapy \(DG-GT\) Annual Meeting](#)

Date: 4th - 8th March, 2024

Venue: Munich, Germany

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