ICBWH_2025

International Congress on Biomaterials for Wound Healing (ICBWH)

Date: 2-4 September 2025 (Tue-Thu)
Venue: Alev Alatlı Conference Hall, Alanya Alaaddin Keykubat University (ALKU), Alanya, Antalya, TÜRKİYE. 🌐 https://biomat4woundhealing.tr

Congress Scientific Program

Day 1: Tuesday, 2 September 2025

08.30 - 16.00	**Registration**
09.00 - 10.00	**Opening ceremony**
10.00 - 11.00	**Keynote Speech** Dr. Meltem Demirel Kars (Necmettin Erbakan University, Türkiye) *Healing Wounds, Building Futures: The Transformative Journey of the REGENEU Biomaterials Project*
11.00 - 11.20	**Tea/Coffee Break**
11.20 - 11.50	**Invited Speech 1** Dr. Conor Buckley (Trinity College Dublin, Ireland) *Engineering Regenerative Solutions: Harnessing Naturally Derived Biomaterials for Tissue Repair*
11.50 - 12.10	**Speech 1** Dr. Tobias Weigel (Fraunhofer Institute for Silicate Research, Germany) *Physiological and Synthetic Stromal Scaffolds for Animal-Free Tissue Models*
12.10 - 12.30	**Speech 2** Michael B. Keogh (Royal College of Surgeons in Ireland, Kingdom of Bahrain) *Enhanced Biological Effects of Non-Thermal Plasma Treating Collagen GAG Scaffolds*
12.30 - 13.30	**Lunch**
13.30 - 14.00	**Invited Speech 2**

	Dr. Sofia Dembski (Fraunhofer Institute for Silicate Research, Germany) *Inorganic Phosphate-based Supra particles: New Approaches for Bone Regeneration and Drug Delivery*
14.00 - 14.20	**Speech 3** Zülal Mızrak (Marmara University, Türkiye) *The Effects of Pullulan on Cell Proliferation and The Wnt Pathway During Wound Healing in Zebrafish Embryos*
14.20 - 14.40	**Speech 4** Marko Dobricic (Royal College of Surgeons in Ireland, Ireland) *Local Delivery of Mirna-31 Mimics Via RNA-Activated Scaffolds Enhances ECM Deposition, Angiogenesis, and Neurite Outgrowth for Diabetic Wound Repair*
14.40 - 15.00	**Speech 5** Fazilet Canatan Ergün (Necmettin Erbakan University, Türkiye) *Application of PCL/Gel Fiber Functionalized with Ll37-Loaded CSNP in A 2D Scratch Model for Supporting Wound Healing*
15.00 - 15.20	**Tea/Coffee Break**
15.20 - 15.50	**Invited Speech 3** Dr. Fergal O'Brien (Royal College of Surgeons in Ireland, Ireland) *Biomaterial Scaffolds for The Delivery of Gene Therapeutics for Enhanced Wound Repair*
15.50 - 16.10	**Speech 6** Matthew McGrath (Royal College of Surgeons in Ireland, Ireland) *Development of a Biomimetic Multi-Layered Functionalised Antimicrobial Biomaterial Scaffold for Healing of Complex Wounds*
16.10 - 16.30	**Speech 7** Juan Carlos Palomeque Chávez (Royal College of Surgeons in Ireland, Ireland) *A Multi-Faceted Mirna-Activated Scaffold as An Immuno-Modulatory Platform for Chronic Wound Healing Applications*

Day 2: Wednesday, 3 September 2025

09.00 - 09.30	**Invited Speech 4** Dr. Bilsev İnce (Prof. Dr. Bilsev İnce Aesthetic Surgery Clinic, Türkiye) *Wound Care and Current Treatment Approaches*
09.30 - 09.50	**Speech 8** Dr. Jörn Probst (Fraunhofer Institute for Silicate Research, Germany) *Renacer® Fiber Fleeces for Chronic Wound Regeneration*
09.50 - 10.10	**Speech 9** Katja Nadler (Fraunhofer Institute for Silicate Research, Germany) *Sol-Gel Derived Renacer® Fiber Fleeces as A Fully Resorbable Drug Delivery System for Local Post-Operative Glioblastoma Treatment*
10.10 - 10.40	**Invited Speech 5** Dr. Atıf Emre Demet (Necmettin Erbakan University, Türkiye) *European Patent Applications in Biotechnology: Mapping Innovation Pathways*
10.40 - 11.00	**Tea/Coffee Break**
11.00 - 11.30	**Invited Speech 6** Anke Wixmerten (University of Basel, Switzerland) *Overcoming Obstacles: Key Challenges for Manufacturers of Combined ATMPs*
11.30 - 11.50	**Speech 10** Mihraç Görünmek (İstanbul Medeniyet University, Türkiye) *Preliminary Investigation of Mycosporine-like Amino Acids from Antarctic Klebsormidium sp. ASYA17 for Advanced Wound Healing Applications*
11.50 - 12.10	**Speech 11** Juan Carlos Palomeque Chávez (Royal College of Surgeons in Ireland, Ireland) *Development of a Mirna-29b-Activated Scaffold for The Inhibition of Fibrosis During Wound Healing*
12.10 - 12.30	**Speech 12**

	Şeref Akay (Alanya Alaaddin Keykubat University, Türkiye) *Lipid Based Multifunctional Drug Delivery Systems for Implant Infections*
12.30 - 13.30	**Lunch**
13.30 - 14.00	**Invited Speech 7** Dr. Oliver Pullig (University Hospital of Würzburg, Germany) *Regulatory Challenges in Advanced Therapies: Navigating Innovation in Medical and Medicinal Products*
14.00 - 14.20	**Speech 13** Dr. Sedef Akçaalan (Necmettin Erbakan University, Türkiye) *Sinapic Acid Stimulates Keratinocyte-Driven Wound Healing Via Regulation of Key Migratory and Adhesion Related Genes*
14.20 - 14.40	**Speech 14** Julia Burke (Royal College of Surgeons in Ireland, Ireland) *Development of a Next Generation Electroconductive Biomaterial for Peripheral Nerve Regeneration*
14.40 - 15.10	**Invited Speech 8** Mustafa Ersöz (Selçuk University, Türkiye) *Strengthening Research Excellence and Capacity Building in Widening Countries through Marie Sklodowska-Curie Actions*
15.10 - 16.10	**Poster Session & Tea/Coffee Break**
15.30 - 17.00	REGENEU Project Management Meeting (**For REGENEU project members**)
18.30	**GALA DINNER**

Day 3: Thursday, 4 September 2025

09.00 - 09.30	**Invited Speech 9** Dr. Aylin Şendemir (Ege University, Türkiye) *In vitro Evaluation of the Regenerative Effects of Piezoelectric Nanofibrous Scaffolds on Spinal Cord Injury*
09.30 - 09.50	**Speech 15** Maria Paula Morales-González (University of La Sabana, Colombia) *Hemostatic and Wound Healing Non-Isocyanate-Polyhydroxyurethanes (Niphus) Dressings*
09.50 - 10.10	**Speech 16** Dr. Emre Fatih Ediz (Necmettin Erbakan University, Türkiye) *Development and Characterization of PLA/Gelatin-Based Biocompatible Nanosponges Enriched with Bioactive Agents*
10.10 - 10.30	**Invited Speech 10** Dr. Fatih Kaleci (Necmettin Erbakan University, Türkiye) *Global Biomaterials Research (1980–2025): A Comprehensive Bibliometric and Visualization Analysis*
10.30 - 10.50	**Tea/Coffee Break**
10.50 - 11.20	**Invited Speech 11** Dr. Alexandra Margarida Pinto Marques (University of Minho, Portugal) *Dermal Extracellular Matrix in Wound Healing: Applications and Therapeutic Potential*
11.20 - 11.40	**Speech 17** Dr. Elif Didem Örs Demet (Necmettin Erbakan University, Türkiye) *Enhancing Browning of 3T3-L1 Cells Using Liposomal Naringenin and Berberine*
11.40 - 12.00	**Speech 18** Dr. Pelin İlhan (PA Biotechnology Trade Industry Incorporation, Türkiye)

	Development and Pre-Validation of a New In Vitro Skin Irritation Test Kit for Safety Assessment
12.00 - 12.15	**Speech 19** Ümran Ünüvar (Necmettin Erbakan University, Türkiye) *Comparative Evaluation of Chemically and Green Synthesized Gold Nanoparticles: Antioxidant Properties and Wound-Healing Effects*
12.15 - 12.30	**Speech 20** Canan Sevinç Şaşmaz (Necmettin Erbakan University, Türkiye) *Peganum Harmala-Mediated Zinc Oxide Nanoparticles with Antibiofilm Potential Against Staphylococcus Aureus: Implications for Wound Healing Applications*
12.30 - 13.30	**Lunch**
13.30 - 14.30	**Closing ceremony & Poster Awards**

Poster Presentations

1. Sümeyye Kozan, *IN-VITRO EVALUATION OF BIOCOMPATIBILITY OF CBD ON KERATINOCYTE CELLS.*

2. Melike Tuncer, *PREPARATION OF STARCH-BASED AEROGELS VIA FREEZE-THAWING AS A POTENTIAL DRUG RELEASE SYSTEM*

3. Besna Dalmış, *COMPARISON OF PHB PRODUCTION EFFICIENCIES OF Cereibacter sphaeroides AND Cupriavidus necator USING FOUR DIFFERENT CARBON SOURCES*

4. Nur Banu Soylu, *NATURAL CAROTENOID EXTRACTION FROM Cereibacter sphaeroides O.U.001 CULTIVATED UNDER CARBON DIOXIDE FIXATION CONDITIONS*

5. Tuğba Baş, *OPTIMIZING POLYHYDROXYBUTYRATE BIOSYNTHESIS IN Cereibacter sphaeroides AND Rhodopseudomonas palustris VIA GROWTH-INDUCTION APPROACH*

6. Innocent Manga, *BIOCONVERSION OF ACETIC ACID TO PHB BY Cereibacter sphaeroides AND Rhodopseudomonas palustris: YIELD OPTIMIZATION and STRUCTURAL CHARACTERIZATION*

7. Beyza Nur Sayaner Taşçı*, BIOCOMPATIBLE AND ANTIMICROBIAL PHB-BASED NANOFIBROUS DRESSINGS FOR WOUND HEALING APPLICATION*