

## UPO's teachers and researchers had a relevant role in the World Biomaterial Congress in Daegu, Korea

The twelfth edition of the "**World Biomaterials Congress**" was held from 26 to 31 May 2024 in Daegu, Korea. The international conference takes place every four years and is the most important global event in biomaterials and regenerative medicine's field. The event is so relevant that no other continental conferences are organized in the same year of WBC. In order to permit the elite of the involved disciplines to exclusively converge there.

A delegation of teachers and researchers from Università del Piemonte Orientale has taken part to WBC2024, covering prominent roles (organizers, moderators and speakers) in the program. This is an important recognition of the scientific value and innovation level of our University's research work.

**Lia Rimondini**, director of the Department of Health Science (DISS), in collaboration with Professor **Dagnija Loca** from Riga Technical University, organized the session *Precision Medicine in Biomaterials for Regeneration*.

Professor Rimondini is **Premurosa's** project coordinator. The project is part of the "**Marie Skłodowska Curie Innovative Training Network-European**" programme, funded by the European research and innovation program Horizon 2020. It aims to train a new generation of young people researchers on highly relevant topics: *Precision medicine for musculoskeletal regeneration, prosthetics, and active aging*. The consortium includes eleven academic partners under the leadership of UPO, six non-academic partners and biomedical companies. Some results of the project work had been shared during the session.

Dr **Elham Sharifikolouei**, who recently finished her **Marie Skłodowska Curie Individual Fellowship** and joined the group coordinated by **Andrea Cochis** - associate professor of Applied Medical Sciences - and professor Rimondini, organized and moderated the session *Inorganic Materials for Therapeutic Agents*, opening with an invited lecture on *Metallic Glasses for Biomedical Applications, From Intrinsically Antibacterial Surfaces, Dental Implants, Smart Healthcare Wearable Biomaterials, to 4D-Materials for Wound-Healing*. Metallic glasses have recently been discovered; they're extremely innovative and pioneering materials, now in a transition from electronics to biomedical technologies.

Eventually, professor Cochis illustrated the first-rate achievements obtained by the group he coordinates with an invited lecture entitled *Multifunctional biomaterials and advanced in vitro bioreactors-based platforms: combining strategies and technologies towards precision medicine* while **Ksenia Menshikh**, PhD student in Food, Health and Longevity, held the talk *Comparative analysis of 3D-printed  $\beta$ -TCP and freeze-dried alginate-bioactive glass scaffolds as bone-like microenvironments for osteosarcoma in vitro modelling*. The speech, focused on researcher's thesis, illustrated the clinical opportunities deriving from the correlation between studies on biomaterials and tumor engineering, and constitutes an uncommon recognition for a doctoral student.