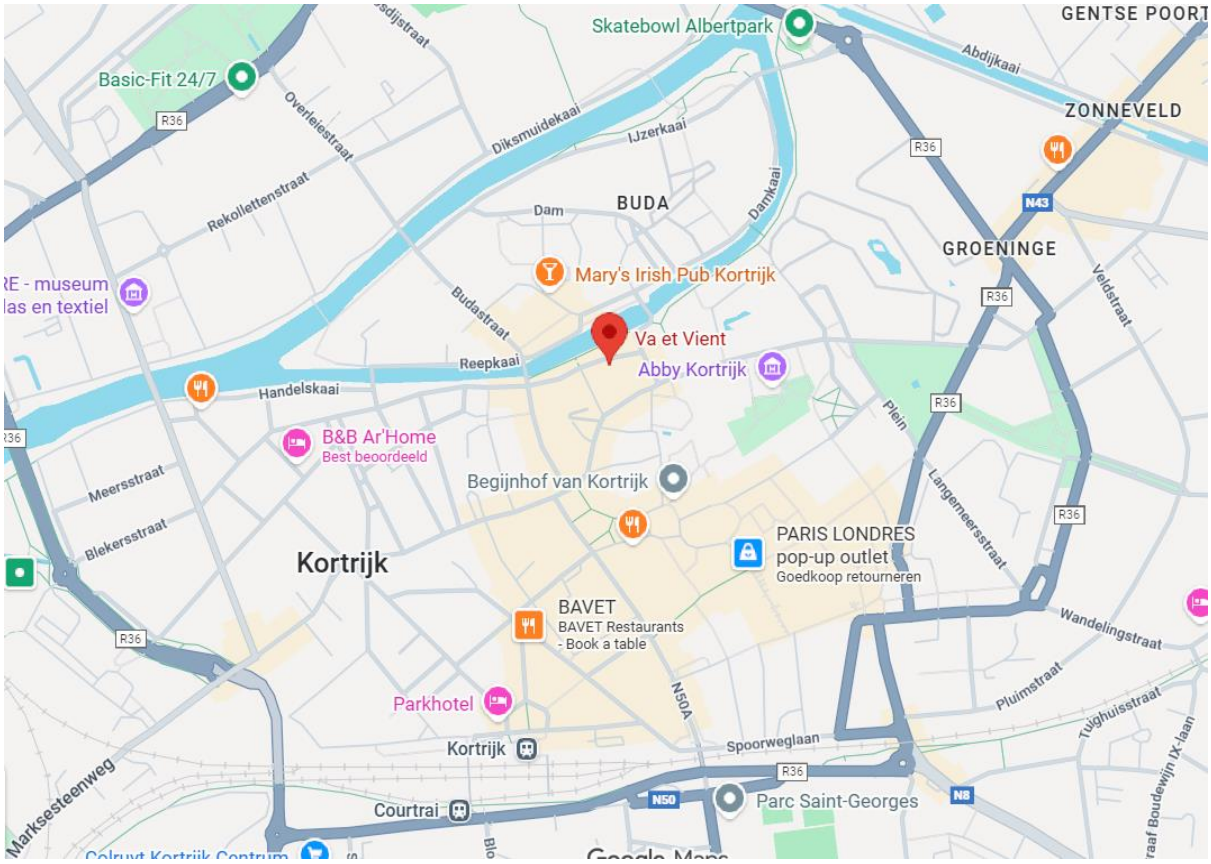
Tuesday 9 December 2025	
08:45-09:30	Registration and coffee
09:30-09:45	Opening of the conference by Prof. L. Thorrez – Prof. H. Declercq
Session 1: Spheroids and bioprinting **Chair: Prof. S. Van Vlierberghe**	
09:45-10:30	**Keynote speaker: Prof. Dr. Aleks Ovsianikov – From High Resolution 3D Printing to High Definition Bioprinting with Multiphoton Lithography**
10:30-11:00	Oral presentation 1.1: Spheroid- Versus Single Cell-Based Engineering of a hiPSC-Derived Vascularized Tissue Model (**Jasper Smet**) Oral presentation 1.2: A Platform for High-throughput Production of Decellularized Scaffolded Spheroids (S-SPHs) as Building Blocks for Tissue Engineering (**Lisa-Marie Gaul**) Oral presentation 1.3: Shape Memory Polyester Scaffolds for Bone Tissue Engineering Applications (**Aysu Arslan**)
11:00-11:30	Coffee break
Session 2: Vascularization strategies in tissue engineering **Chair: Prof. A. Bronckaers**	
11:30-11:50	**Selected speaker: Frequency-dependent regulation of angiogenesis by ELF-EMS via Hsp90 and PTK2 signaling (Monika Studennykova)**
11:50-12:20	Oral presentation 2.1: From Microtissues to Vasculature: Unlocking the Vascular Potential of Dental Pulp Stem Cells (**Büşra Şenel Demirtaş**) Oral presentation 2.2: AMEN - Artificial Muscle with Endothelial Networks (**Roland Rose**) Oral presentation 2.3: Engineering Human Vascularized Skeletal Muscle Constructs Using Tissue-specific Endothelial Cells (**Rebecca Wüst**)
12:20-14:20	Lunch break and poster presentations
Session 3: Osteochondral tissue engineering **Chair: Prof. C. Pierreux**	
14:20-14:40	**Selected speaker: End-to-end automated robotic biofabrication of organoid-based tissue-engineered zonated osteochondral implants (Andreas Dimopoulos)**
14:40-15:20	Oral presentation 3.1: Mechanically Reinforced GelMA Constructs Enhance Chondrogenic Differentiation of Human Articular Chondrocytes under Dynamic Loading (**Sofia Satarova**) Oral presentation 3.2: CARTILOSS: micro-Decellularized/Devitalized Hypertrophic Cartilage Extracellular Matrix Assemblies for Bone Regeneration (**Jiarun Bai**) Oral presentation 3.3: 3D Spheroid Culture Promotes Dynamic Structural and Mechanical Changes during Chondrogenic Differentiation (**Karolina Z. Dąbrowska**) Oral presentation 3.4: Overcoming Static Culture Limits: A Hydrostatic Pressure Bioreactor Setup Driving Chondrogenesis in Scaffold-Free ASC Spheroids (**Elias Ellersdorfer**)
15:20-15:50	Coffee break

Session 4: Engineering the tissue micro-environment Chair: Prof. L. Thorrez	
15:50-16:35	**Keynote speaker: Prof. Dr. David Mooney – Matrix viscoelasticity - engineered tissues to new adhesives**
16:35-16:55	Oral presentation 4.1: Localized delivery of cyclin-dependent kinase inhibitor promotes regulatory T cell activation and bone repair (**Gabriele Nasello**) Oral presentation 4.2: ECM Matters: Supporting Spheroids in Alginate Hydrogels (**Tisa Tüshaus**)
16:55-17:10	Closing remarks
17:10-18:00	Network drink @ Notenhof
19:00-22:00	Conference dinner

Conference dinner: Restaurant Va et Vient, Handboogstraat 20, 8500 Kortrijk



Wednesday 10 December 2025	
08:30-09:00	Registration
Session 5: Clinical translation **Chair: Prof. Dr. H. Declercq**	
09:00-09:45	**Keynote speaker: Dr. Agnes Klar – A new generation of human tissue-engineered skin grafts: vascularized, pigmented, and fat-enhanced**
9:45-10:15	Oral presentation 5.1: Precision-cut lung slices (PCLS) as a translational ex vivo platform for precision respiratory medicine (**Girmatsion Hermon**) Oral presentation 5.2: Junior ORSI and the next generation of tissue engineering (**Arthur Arie** (KU Leuven) - **Olivia Corthals** (UGent)) Oral presentation 5.3: Empowering discovery. Advancing therapy. (**Miltenyi**)
10:15-10:45	Coffee break
Session 6: Connective tissue engineering **Chair: Dr. B. van den Bogerd**	
10:45-11:05	**Selected speaker: Silk-based ligament and tendon grafts: from bench to medical device (Andreas Teuschl-Woller)**
11:15-11:45	Oral presentation 6.1: Evaluation Of Short- And Long-Term Preservation Of Human Abdominal Rectus Fascia Grafts: One Month Cryopreservation Maintains Mechanical And Histological Integrity (**Ina Hennion**) Oral presentation 6.2: Inflammation On Demand: Establishing A Tendinopathy Model Using A Co-culture Of Tissue-engineered Tendon Constructs With Pro- And Anti-inflammatory Macrophages (**Ekaterina A. Oleinik**) Oral presentation 6.3: Physicochemical characterization of hybrid constructs inspired by fibrin and gelatin for biomimetic tendon model development (**Marguerite Meeremans**)
11:45-13:45	Lunch break and poster presentations
13:45-14:45	**Panel discussion – clinician-researcher**
14:45-15:15	Coffee break
Session 7: Biofabrication and bioprinting **Chair: Dr. N. Pien and Prof. V. Bloemen**	
15:15-15:35	**Selected speaker: Engineering morphing human neural tissues and neural tube defects (Adrian Ranga)**
15:35-15:55	Oral presentation 7.1: Volumetric 3D printed tumor model for evaluating functionalized MnO2 quantum dots (**Amir Abrishami**) Oral presentation 7.2: Tissues as living materials: an active matter approach for tissue engineering (**Bart Smeets**)
15:55-16:10	**Award ceremony – O&J Peters prize to Prof. R. Levato**
16:10-16:55	**Keynote speaker: Prof. Dr. Riccardo Levato – Light-based and image-guided bioprinting for regenerative medicine and disease modelling**
16:55-17:10	Closing remarks – Award ceremony