

## **3D Biosystem – Ground Preparatory Activities**

### **Workshop 1, 2024**

#### **9:30 - Welcome and Introduction to symposium (ESA)**

#### **9:45 – 10:45 - Project presentations (15 minutes + 15 minute community discussion)**

- Development of 3D printed skeletal muscle constructs to test how microgravity affects myofiber development (*Kai Hoettges, University of Liverpool*)
- Biofabrication of a 3D bone-on-a-chip by inkjet printing for microgravity research (*Ronnie Willaert, Charlotte Yvanoff, Vrije Universiteit Brussel*)

#### **10:45 – 10:55 – coffee break**

#### **11:00 – 13:00 – Project presentations (15 minutes + 15 minute community discussion)**

- Making bioprinting in microgravity possible on Earth (*Andreas Blaeser, David Sipos, TU Darmstadt*)
- Paving the way for bioprinting of skin on Earth (*Michael Gelinsky, Johannes Windisch, TU Dresden*)
- Core-Shell Bioprinting of Skeletal Muscle Motoric Units (*Gabor Trautmann, Charité Berlin*)
- Robust extrusion bioprinting of mesoscopic tissue constructs: optimising flow and transport regimes (*Igor Chernyavsky, University of Manchester*)

#### **13:00 – 14:00 – Lunch**

#### **13:30 – 15:00 – 3D Biosystem infosession (ESA)**

- Presentation on 3D biosystem for ISS capabilities and development status

#### **Microsoft Teams** [Need help?](#)

#### **[Join the meeting now](#)**

Meeting ID: 364 419 005 496

Passcode: HPP2dv

---

#### **Dial-in by phone**

[+39 02 0062 4740,,973365311#](tel:+390200624740973365311) Italy, Milano

[Find a local number](#)

Phone conference ID: 973 365 311#

#### **Join on a video conferencing device**

Tenant key: [teams@meet.esa.int](mailto:teams@meet.esa.int)

Video ID: 129 879 802 1

[More info](#)

For organizers: [Meeting options](#) | [Reset dial-in PIN](#)