

Topics for abstract submission to EUROoCS 2024 International Conference.

Please note that authors need to select at least 1 (max 3) topic from the lists in the first three categories (i.e. **Target application/context of use, Specific organ/system, Technologies**).

Optionally, one topic in the fourth list (**Additional keywords**) may be indicated.

1) Target application/context of use
Disease modelling
Organ-specific Toxicity
Drug development (safety)
Drug development (efficacy)
Advanced therapies (gene, mRNA, cell therapy...)
Regulatory use
In vitro/in vivo extrapolation (IVIVE)
Clinical trials on chip
Diagnostics
Mechanism of action
Systemic toxicity
Chemical assessment
Environmental pollution - ecotoxicity
Mechanotransduction
Personalized medicine
Immunotherapies
Cosmetics
PK/PD
ADME
Other

2) Specific organ/system
Barriers and Vasculature
Immune system
Metabolic system
Developmental biology
Gastrointestinal system
Reproductive system
Neurovascular unit
Respiratory system
Ocular system
Musculoskeletal system
Cardiovascular system

Endocrine system
Nervous system
Urinary system
Other

3) Technologies
Physical stimulation (mechanical, electrical,...)
Biomaterials and scaffolds
In silico models
Throughput - imaging and omics
Integrated platforms
Microfluidics
Multi-organ models
Body on chip
3D printing and Bioprinting
Sensors and actuators
Automation and usability
Artificial Intelligence
Organoid-on-Chip
Analysis and readout
Stem cells
iPSC/iPSC-derived
Organoids
Ex vivo
Other

4) Additional keywords
Technology transfer
Industrialisation
Standardisation
Proof-of-concept
Qualification
Industrial case studies
Diversity
Biomedical research
Clinical application