

Investigation, development
and optimization of new
innovative drug formulations
for various therapeutic
indications

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Successful R&I in Europe 2025 - 12th European Networking Event on 06-07.03.2025 in Düsseldorf

TOPICS TO EXPLORE

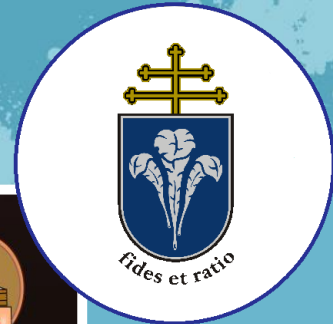
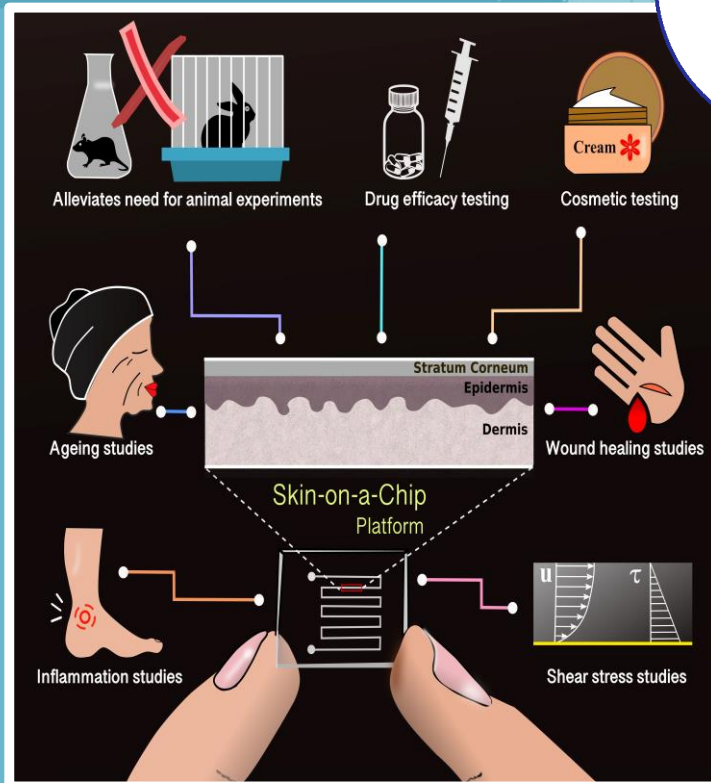


- Preparation of artificial tissues (e.g. skin or epidermis)
- **Testing tissue properties (morphology, physiology, chemical)**
- Preparation of microfluidic platforms
- **Integration of tissues/artificial tissues/cells into the systems**
- Using as evaluation platform for drugs, cosmetic products
- **Diagnostic and therapeutic assessment**
- Dermatological disease models on-a-chip
- **Integration of sensors to the systems**
- High throughput, 3D Bioprinting, 3D printing, electrospinning

TOPICS TO EXPLORE

Fields of utilization:

Pharmacological screening
Toxicological testing
Cosmetic testing
PK/PD testing
Formulation optimization
Biomarker analysis
Diagnostic applications
Development of artificial tissue
Dermatology, ophthalmology research
Multi-organ chip developments
Medicine, Pharmaceutical Industry



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TYPE AND ROLE OF THE PARTNER

We are looking for a consortium leader and members
Universities, R&D Institutes, SMEs, Big companies



- Cell culturing, co-culturing, multi-organ
- **3D Bioprinting & 3D Printing**
- Histology, Immunohistochemistry, Optical imaging
- **Computational fluid dynamics (degassing, micropumps, medium)**
- Engineering, manufacturing
- **Micro- and biosensors (electrical, optical, electrochemical, metabolic etc)**
- Validation, comparison with gold standard methods
- **Human studies, in vivo Confocal Raman Spectroscopy**
- Marketing, Patenting, IP issues

Scientific expertise we have



Microfluidics

Skin/eye-on-a-chip design, fabrication and validation

Engineering

Mathematical simulation, prediction

Pharmaceutical formulation

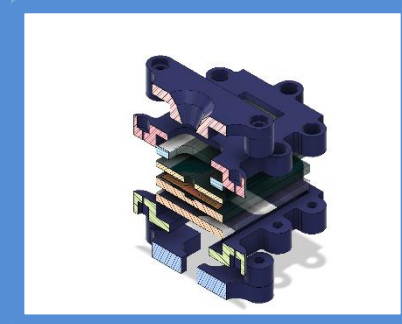
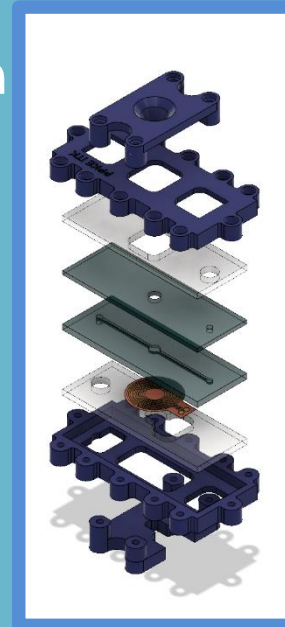
PK/PD studies

Penetration assessment

Artificial skin cell cultivation

Tissue analysis, characterization

Microscopy, image analysis



Contact

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Calls:

- [HORIZON-HLTH-2025-01-TOOL-05: Boosting the translation of biotech research into innovative health therapies](#)
- [HORIZON-HLTH-2025-01-IND-01: Optimising the manufacturing of Advanced Therapy Medicinal Products](#)
- [ERA-NET NEURON Joint Transnational Call 2025 “Interdisciplinary Approaches to the Neuroscience of Pain” - ERA-NET NEURON](#)
- [Visegrad+ Grant https://www.visegradfund.org/apply/grants/visegrad-plus-grants/](https://www.visegradfund.org/apply/grants/visegrad-plus-grants/)



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