

Our Research

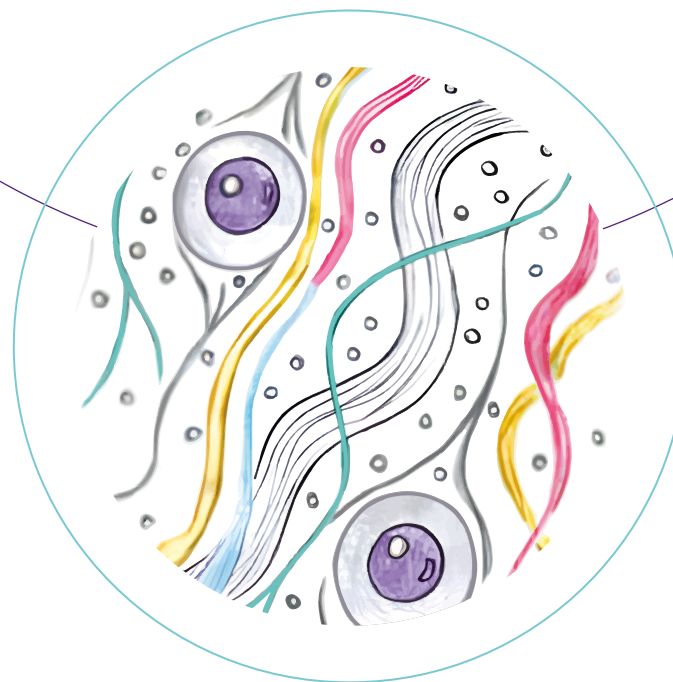
- 2023 "The Effect of Carnosine on UVA-Induced Changes in Intracellular Signaling of Human Skin Fibroblast Spheroids"
doi: 10.3390/antiox12020300
- 2022 "Oxidative Stress Modulation by Carnosine in Scaffold Free Human Dermis Spheroids Model: A Proteomic Study"
doi: 10.3390/ijms23031468
- 2021 "Extra Cellular Matrix Deposition and Assembly In Dermis Spheroids"
doi: 10.2147/CCID.S316707
- 2019 "New Insights on the Role of Adipose Tissue Using 3D Scaffold-Free Organoids" _ IFSCC
- 2018 "Hair Strengthening Evaluation of Anisotropic Osmolite Solutions (Inositol + Arginine): Cross-talk between Dermal Papilla Fibroblast and Keratinocytes of the Outer Root Sheath Using a Hair Follicle 3D Model"
doi: 10.3390/cosmetics5040056
- 2017 "Next-generation of in vitro 3D human tissue models for preclinical application in life sciences: application to reproductive biology"



The key driver on which our laboratory develops experimental models based on scaffold free ORA® series is the knowledge and expertise of in Vitro Science and Bioengineering taking into account regulatory requirements.



Discover the reliability, scientific relevance and predictivity of our experimental model based on 3D scaffold free spheroids



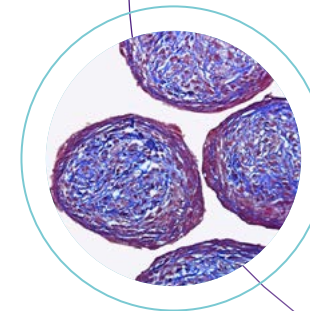
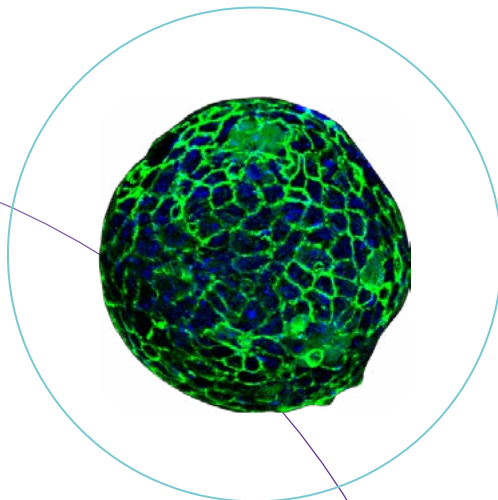
Human cells and endogenous ECM acting as efficient fluid interfaces for diffusion, transport and metabolism to deliver precision in drug discovery and efficacy testing for nutritional and cosmetic active ingredients.



About VitroScreenORA®

VitroScreenORA® series are human cells-based scaffold-free spheroids precisely designed in their natural microscale 3D architecture: ORA® spheroids grow physiologically according to the phenotypic characteristic of the donors, mirroring the rhythm of life as it occurs in human body.

VitroScreenORA® series have a unique capacity to precisely mirror drugs and nutrients diffusion, transport and metabolism, taking into account the interaction with endogenous extra cellular matrix after short and long term exposures (up to 3 weeks).



We support customers starting from the initial idea up to the development of engineered 3D systems and further in optimizing experimental protocols to advance in the adoption of human relevant approaches to translational and personalized medicine research projects, such as MPS:

- Cartilage
- Dermis and Vascularized dermis
- Dermal-papilla and Vascularized dermal-papilla
- Corneal stroma
- Bladder
- Adipose tissue
- Colonic intestine
- Endometrium

VitroScreen is quality oriented: GLP certified, member of EU Netval, CIR approved.

UNI EN ISO 9001:2015 (EA:34) certifies the Laboratory capacity to conduct research under this quality system.

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