

MPS NOVA KICK-OFF MEETING

Nov 7 - 8th | 2024 | ITQB NOVA

Advanced Microphysiological Systems and Pluripotent Stem Cell Technologies to Unveil Chronic Disease Mechanisms and Host-Microbe Interactions

















DAY 1.7 NOV. MANAGEMENT MEETING. 8TH FLOOR

- 09:00 Management Check-In & Welcome Meet and Greet
- 09:30 Management meeting of MPS_NOVA Consortium (includes Coffee break)
- 12:30 Management Lunch

DAY 1.7 NOV. MPS_NOVA MEETING.ITQB NOVA AUDITORIUM

- 13:00 Participants Check-In (ITQB NOVA front desk)
- 14:00 MPS_NOVA Twinning Opening
 Raquel Sá Leão (ITQB NOVA Vice-Dean)
- 14:10 MPS_NOVA general introduction
 Sarela Santamarina, Cláudia Santos

SESSION: PARTNERS' EXPERTISE IN MICROPHYSIOLOGICAL SYSTEM Chairs: Sarela Santamarina, Cláudia Santos

- 14:30 Organ-on-Chip for Dissecting Mechanisms of Host-Pathogen Interaction Alexander Mosig, UKJ
- 15:15 Organoids to Model Human Brain Development and Brain Diseases
 Agnieszka Rybak-Wolf, MDC
- 16:00 The First Italian Platform for Disease Modelling Giovanni Faga, Jacopo Zasso, FHT
- 16:45 Coffee break & Poster Session

THEMATIC ROUND TABLE

17:15 State-of-art knowledge in Organ-on-Chip for Chronic Diseases,
Host-Microbe Interactions Research, and the Translational Potential of MPS
and Stem Cells in Therapeutic Developments

Leads: Alexander Mosig, UKJ

Participants: Elena Martínez, Martin Raasch, Inês Figueira, Paul Wilmes

- 18:30 Cocktail & Poster Session
- 20:00 Dinner at Casa da Dizima, Paço de Arcos

DAY 2 . 8 NOV . MPS_NOVA MEETING . ITQB NOVA AUDITORIUM

09:00 Participants Check-In	(ITQB NOVA front desk))
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	SESSION: BRAINS IN A DISH: ORGANOIDS & CHIPS
	Chair: Miguel Seabra, NOVA Medical School
09:30	Twinning on MPS to determine how Alzheimer's-linked Endosomal Trafficking Defects cause Synapse Dysfunction Cláudia Almeida, NOVA Medical School
09:45	MPS for disclosing Molecular Nutrition Benefits toward Brain Health Inês Figueira, NOVA Medical School
10:00	Exploring Carotid Body Connections using MPS Fátima Martins, NOVA Medical School
10:15	Advancing Chronic Disease Research through MPS_NOVA: Bridging Drosophila and Human Models Catarina Homem, NOVA Medical School
10:30	Innate Immune Microenvironments in Disease and Therapeutic Response Catarina Brito, ITQB NOVA
10:45	Advancing Retinal Disease Models Through Retinal Organoids Sandra Tenreiro, NOVA Medical School
11:00	Coffee break & Poster Session
	SESSION: ADVANCES IN SKIN MICROPHYSIOLOGICAL SYSTEMS Chair: Cristina Silva Pereira, ITQB NOVA
11:30	Staphylococci and Skin Interactions during Health and Disease Maria Miragaia, ITQB NOVA
11:45	Reconstructed Skin Models in Pigmentation and Cutaneous Melanoma Research Duarte Barral, NOVA Medical School
12:00	3D-Reconstructed Human Epidermis Models: towards more Realistic Environments for developing Antimicrobials that preserve a Balanced Skin Microbiome, Ana Coelho, ITQB NOVA
12:15	Controlling Aspergillus Fumigatus Core Endohyphal Bacteria to Hinder the

Fungal Host Pathogenicity, Cristina Silva Pereira, ITQB NOVA

DAY 2.8 NOV. MPS_NOVA MEETING. ITQB NOVA AUDITORIUM

SESSION: ADVANCES IN MICROPHYSIOLOGICAL SYSTEMS FOR OTHER ORGANS Chair: Duarte Barral, NOVA Medical School

- 14:00 Potential application of the organ-on-chip platform for testing new therapeutic strategies in Breast Cancer by targeting immunosuppressive neutrophils, Guadalupe Cabral, NOVA Medical School
- 14:15 Novel model systems to study the interaction between Bilophila wadsworthia and the host, Andreia Pimenta, ITQB NOVA
- 14:30 Clostridioides difficile spores are toxin delivery vehicles Adriano Henriques, ITQB NOVA
- 14:45 Exploring host-microbe interactions with Listeria monocytogenes using microphysiological systems

 José Andrade, ITQB NOVA
- 15:00 Human Liver Organoids for Investigating Inflammation in Chronic Metabolic Liver Disease

 Michel Kranendonk, NOVA Medical School
- 15:15 Using Nasopharyngeal Organoids to Study Streptococcus pneumoniae Colonization, Viral Interactions, and Biofilm Formation Raquel Sá-Leão, ITQB NOVA
- 15:30 Coffee Break

Advisory Board Round Table

Chairs: Cláudia Santos, Sarela Santamarina

- 16:00 Bruno Pereira, i3S Porto, Portugal Elena Martínez, IBEC, Spain Martin Raasch, Dynamic 42, Germany Paula Alves, IBET, Portugal Paul Wilmes, University of Luxembourg
- 17:00 Closing Remarks

FORGING THE FUTURE OF DISEASE MODELLING