Dutscher
Ensemble, aidons la science à progresser

CORNING

POM
Plateforme Organoïdes de Montpellier

3 D CELL CULTURE DAY

24 NOVEMBER 2026

genopolys

AGENDA PROVISOIRE
(attente des disponibilités des présentateurs)

Dutscher — Ensemble, aidons la science à progresser | CORNING | POM — Plateforme Organoides de Montpellier

3 D CELL CULTURE DAY

24 NOVEMBER 2026

AGENDA

TIME	SESSION	PRESENTER
09:00	**Registration & Networking**	—
09:20 – 09:30	**Introduction to the POM PLATFORM**	—
09:30 – 10:30	**Keynote Presentation** Solution for Spheroid and Organoid Culture. From 2D Cell models to Advanced 3D Systems	**Dr Stephanie Metzger** Scientific Support Europe CORNING LIFESCIENCES
10:30 – 10:45	**Break & Networking**	—
10:45 – 12:00	**Research Highlights**	• **Maria Joao Ferreira** (POM – PhyMedExp): *"Sensorized microcantilevers for the simultaneous monitoring of electric and mechanical activities of patient-derived cardiac 3D organoids"* • **Albano Meli** (POM – PhyMedExp): *"Patient-derived cardiac organoids using animal-free matrix"* • **Eloine Bestion** (Ventuno Biotech): *"Three chapters, two tools: what 3D cell culture has changed in my science and its industrial valorization"* • **Daria Mamaeva** (POM-INM): *"Three complementary ex vivo human models for investigating the role of ciliary dysfunction in neurosensory disorders"* • **Gérald Lossaint** (ICM): *"Clinical-Biological Database as a tool for translational research"*
12:00 – 13:00	**Lunch & Networking** Informal discussion with CORNING, DUTSCHER and fellow RESEARCHERS	—
13:00 – 14:00	**Research Highlights**	• **Florence Rage** (POM-IGMM): *"From Cortex to Muscle: Rebuilding the Motor Pathway on a chip"* • **Domenico Maiorano** (POM-IGH): *"Modelling human glioblastoma with organoids"* • And more surprise speakers !
14:00 – 15:00	**Ask the Experts: Advanced Troubleshooting & New Technologies** • Hands-on product discovery and discussions with our specialists.	**CORNING LIFESCIENCES** • Dr Stephanie Metzger • Willy Plantier **DUTSCHER** • Christelle Bregnard • Camille Ribeyre • Romain Guegan
15:00	**Prize Draws and Closing Remarks**	—

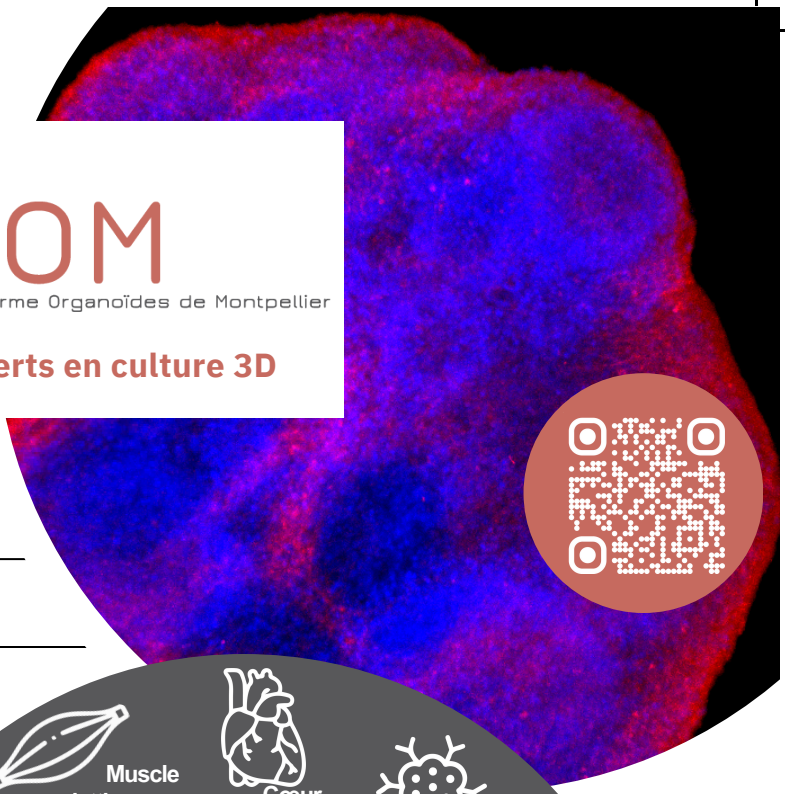
Site de: enopolys

BiCampus Montpellier

POM

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Communauté d'experts en culture 3D

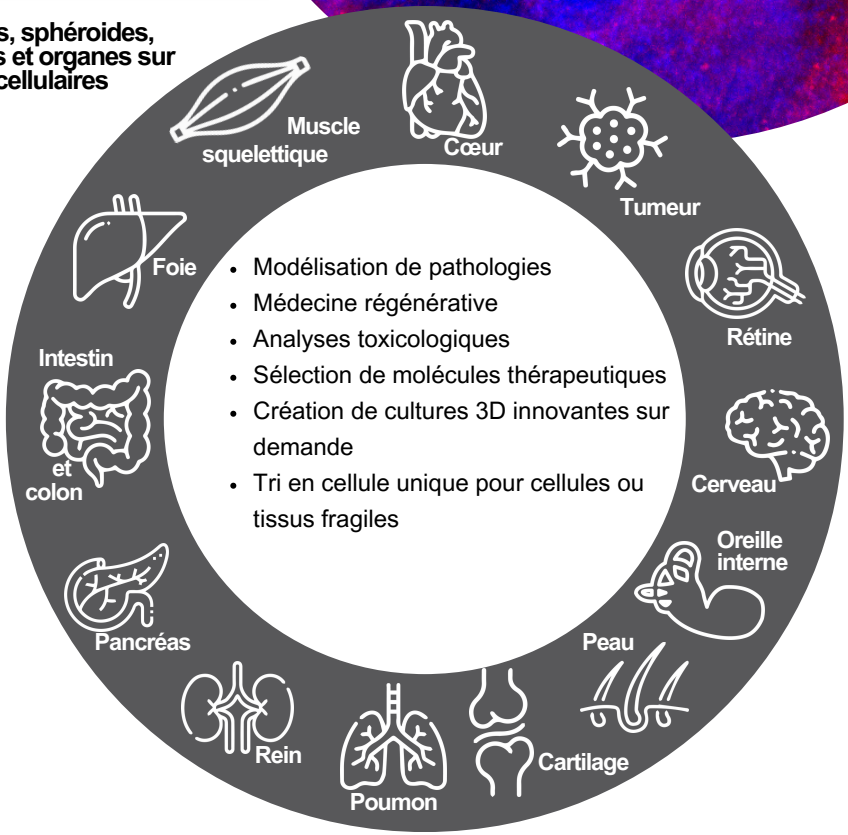


Formations

Partage d'informations

- Séminaires et webinaires

Organoïdes, sphéroïdes, tumoroïdes et organes sur puce multicellulaires



- Modélisation de pathologies
- Médecine régénérative
- Analyses toxicologiques
- Sélection de molécules thérapeutiques
- Création de cultures 3D innovantes sur demande
- Tri en cellule unique pour cellules ou tissus fragiles

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Solutions for 3D Cell Culture:
From 2D Cell Models to Advanced 3D Systems

Stéphanie Metzger
Scientific Support Specialist, Corning Life Sciences

Abstract

The increasing adoption of **physiologically relevant in vitro models** is transforming the way scientists study **disease mechanisms**, **drug discovery**, and **regenerative medicine**.

As researchers working across the life sciences seek alternatives to conventional two-dimensional (2D) cell culture, **three-dimensional (3D) models** such as **spheroids** and **organoids** are emerging as powerful tools that better recapitulate tissue architecture, cellular heterogeneity, and functional responses observed in vivo.

This presentation will provide an overview of the biological principles underlying **spheroid and organoid culture**, highlighting their similarities, differences, advantages, and applications in biomedical research. Participants will gain practical insights into the role of **Corning® Matrigel® Matrix** and learn how **culture conditions**, **handling techniques**, and **workflow optimization** influence the successful establishment and maintenance of 3D models.

The session will also showcase Corning Life Sciences' integrated portfolio of solutions for 3D cell culture, including **Corning® Matrigel® Matrix**, **Corning® Spheroid Microplates**, **Corning® Elplasia® Microcavity Plates**, and **Transwell® Permeable Supports**.

Application examples will illustrate how these technologies support **organoid generation** and **scalable workflows** for disease modelling, compound screening, precision medicine, and advanced mechanistic studies.

In addition, the presentation will discuss the growing role of organoids as **New Approach Methodologies (NAMs)**, providing more physiologically relevant **human-based models** that can complement or reduce reliance on animal studies while improving the predictive value of preclinical research.

Designed for both scientists beginning their transition from traditional 2D systems and experienced 3D cell culture users, the presentation will emphasize **practical implementation**, **experimental design**, and **common challenges** encountered during organoid culture. A **troubleshooting and Q&A session** will allow attendees to discuss specific applications, address technical hurdles, and receive guidance on selecting appropriate culture platforms for their research objectives.