Scan QR Code to Learn More **About Our Stem Cell & Organoid Culture Workflow**



bio-techne.com/ research-areas/ organoids-3d-culture

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R&D Systems[™] Novus Biologicals[™] Tocris Bioscience[™]

Small Molecules

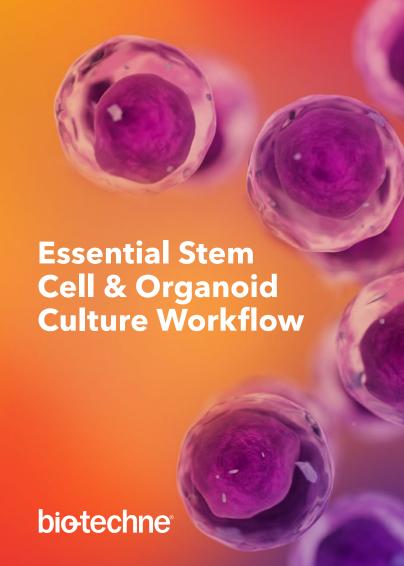
A host of small molecules are used for maintenance of pluripotent stem cells in culture, and also for reprogramming, differentiation and proliferation of these cells.

- Small molecules are cell permeable, so can be used to target intercellular signalling pathways in in vitro and ex vivo stem cell culture
- Synthetic production of small molecules ensures a high level of purity, lot to lot consistency, and activity
- Small molecules are cost-effective, quick and convenient to use in stem cell applications and can be ordered in bulk
- Research grade, ancillary material grade and GMP small molecules available
- Bulk, and custom collaboration possible



Bio-Techne offers a complete Advance your research in range of reagents designed to developmental biology, make the most of stem cells' potential with consistent and thoroughly characterized products that, in turn promote regenerative medicine. robust stem cell, organoid and 3D cultures.

disease mechanisms, drug discovery, toxicology and translational research for



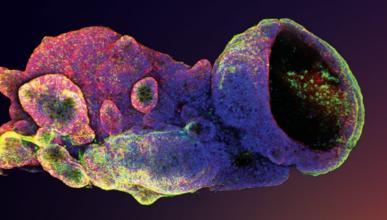
Cultrex™ **UltiMatrix RGF BME**

A basement membrane matrix hydrogel with compositional enhancements and high performance for 2D & 3D cell culture applications

• Designed for organoid, stem cell and 3D culture

 Optimal protein composition and tensile strenath

- High protein concertation (10-12 mg/ml)
- Consistent Lot-to-lot performance
- Low endotoxin profile



ExCellerate

iPSC Expansion Medium

An animal-component free medium for expansion of pluripotent stem cell, and ES cells in culture

 Excellent expansion and viability of undifferentiated stem cells

- Ready to use all-in-one formulation
- Animal-component free medium enabling smooth transition from Research to translational
- High Lot-to-lot consistency
- Companiable with range of IPSC cell lines and matrices



Cytokines & Growth **Factors**

One of the widest selection of cytokines, chemokines and growth factors for use in stem cell, organoid and 3D culture

- 5000+ high quality cytokines from 25 different species expressed in a range of prokaryotic and eukaryotic host species
- Research grade, animalfree and GMP grade bioactive cytokines
- Biotinylated, His-tagged, GST-tagged, as well as many other tagged options

- The most widely cited cytokines in publications
- High lot-to-lot consistency
- Low endotoxin profile
- Stringent QC analysis including SEC
- Bulk and custom options available



Supplements

A range of serum free, chemically defined media supplements for pluripotent stem cells, ES cells and 3D models such as organoids in culture

Optimised for neural and stem

cell cultures

- Enhances performance of stem cell differentiation protocols
- Ideal for NPC derivation. maintenance and differentiation
- High lot-to-lot consistency
- Low endotoxin profile
- Compatible with range of cell lines, media and matrices
- A Representative images of SynaptoRed[™]-C2 staining in hippocampal neurons cultured in N21-MAX
- **B** Representative images showing the quantification of synaptic puncta in hippocampal neurons cultured in N21-MAX. Colored circles indicate a SynaptoRed[™]-positive synaptic puncta.

