Discovery Services: Expertise to advance your drug discovery programs

Advance your scientific breakthroughs with the unmatched expertise of our Discovery Services team. We accelerate your path to discovery with tailored 3D models, rigorous assay validation, and innovative screening solutions to meet your research and development needs. From concept to data, our integrated service solutions empower groundbreaking discoveries in drug research.

Capabilities built for breakthroughs

3D cell model optimization: From initial setup to fine-tuning, we design and refine custom in vitro models to fit your research goals—optimizing matrix composition, cell density, and culture conditions for precise, reproducible, and functional results.

Cell model and assay validation: Partner with us to ensure your 3D cell models and assays deliver reliable and meaningful data. We support you with robustness testing, functional validation, and seamless integration into your downstream workflows.

High-throughput screening services: Rely on us to streamline your screening workflows with end-to-end support, using optimized and validated models for target and drug discovery—delivering actionable results that move your research forward.

All of our offerings include expert scientific and technical support throughout the project, along with full technology transfer. You receive detailed protocols and a comprehensive data package at project completion, ensuring seamless integration into your internal workflows and empowering you to move your research forward.

Ready to transform your approach? Get started at inventia.life/discovery-services

The RASTRUM™ 3D culture approach

RASTRUM™ is an advanced 3D cell culture platform designed to overcome the challenges of traditional 3D cell culture. Combining precision with reproducibility, RASTRUM lets you produce 3D cell models in minutes tailored to your research needs. Its tunable matrix options and drop-on-demand technology creates consistent microenvironments, empowering researchers to unlock new insights in drug discovery, disease modeling, and therapeutic development.

Reproducibility at scale: Create consistent, high-quality 3D cell models with scalability for robust experimental outcomes.

Customizable microenvironments: Tailor matrix compositions, cell densities, and culture conditions to meet the specific needs of your research.

Biological relevance: Generate phenotypically relevant models that mimic the in vivo microenvironment for more predictive results.

Seamless integration: Incorporate RASTRUM into your existing workflows, supported by comprehensive technical guidance and technology transfer.

At Inventia Life Science, we merge your vision with our cutting-edge technology and expert team to bring your therapeutic ideas to life. In a rapidly evolving world of breakthroughs, we are your trusted partner, providing innovative tools and services to meet your unique research needs.
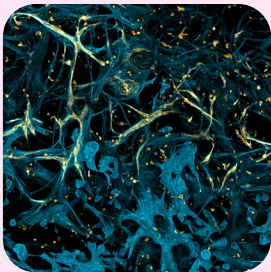
An in vitro model of the tumour-stromal interface. A co-culture of primary normal human lung fibroblasts (NHLF cells) and primary human vascular endothelial cells (HUVECs) were printed to interface with A549 lung adenocarcinoma cells, using a triple matrix model architecture. Cultures were fixed and stained 9 days after printing. Cell nuclei were stained with DAPI (purple), filamentous actin with phalloidin (blue), and the endothelial marker CD31 (gold)
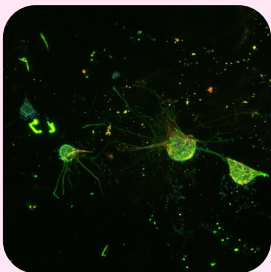
Neuronal cells cultured for 28 days in RASTRUM matrices and stained for neuronal markers. Cells exhibit phenotypically relevant behaviours, with extended neurite outgrowth and cell-cell connectivity. Cell nuclei were labeled with DAPI (Blue). Stained neuronal markers include MAP2 (green), Tyrosine Hydroxylase (orange), and FoxA2 (red).