

WORKFLOW · NEW INNOVATIONS

CELL-BASED WORKFLOWS

Cell-based workflows at every level

Innovative instruments and premium consumables and reagents for 2D/3D cell cultures

WORKFLOW STEPS

1	Cell culture	Cells, cell lines and human iPSCs Abcam, Axol Bioscience, Promega	Cell culture consumables, sterile plastics, plates TheWell Bioscience, Apricell
		CO2 incubators, hypoxia systems, sterile and laminar flow hoods Nuaire, Biobase	Pipettes and small lab equipment Thermo, Fisher, Grant
2	Isolation	Flow cytometers (conventional and spectral), cell sorters, cell counters, centrifuges Beckman Coulter	Sample preparation and liquid handling robots Beckman Coulter, Opentrons
3	Differentiation, cell handling	Cell biology reagents, antibodies, cytokines, growth factors, assay kits, markers, gels Abcam, Qkine, Beckman Coulter, Reddot, Promega, TheWell Bioscience	
4	Cell-based assays	ELISA kits Abcam, Reddot	Microscopes, automated imaging systems and AI software-based cell culture system Molecular Devices, Axion, Zeiss
		Electrophysiology, MEA Axion Bioscience	
5	Storage	Refrigerators, freezers, ultra-low temperature freezers, storage systems Liebherr, Nuaire, Nordic Lab, Tenak, CBS, Zenith Lake Biotech	

FEATURED INSTRUMENTS



NUAIRE 5800 SERIES



NUAIRE ULT



CYTOFLEX SRT CELL SORTER



IMAGEXPRESS HCS.AI HIGH-CONTENT SCREENING SYSTEM



MAESTRO

BIO-SCIENCE
A magyar tudomány szolgálatában.

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MANUFACTURERS AND PRODUCT FAMILIES

MANUFACTURER	PRODUCT LINE	PRODUCT DESCRIPTION
Abcam and Qkine	Antibodies, ELISA, assay kits, cytokines, growth factors, antibody conjugation kits	Flow cytometry, immunohistochemistry, immunoprecipitation, primary and secondary antibodies, ELISA kits, enzyme activity, viability and cytotoxicity kits. Cytokines and growth factors for cell culture. Cell lines. Lightning-Link® and others (e.g., gold nanoparticle and metal conjugation kits).
Axol Bioscience	Stem cells, iPSCs	iPSC-derived cells from human donors of various age groups, media and kits for in vitro human disease models.
Promega	Reporter assays, cell analysis, protein analysis, isolation kits, enzymes, cloning, drug discovery	Kits and reagents for cell viability testing. Bioluminescent and fluorescent kits, Luciferase assays, ATP, cAMP, GenePrint, GoTaq polymerase, Maxwell DNA/RNA isolation kits.
Apricell	3D cell culture plates	Hydrogel-based 3D cell culture plates in 6-, 12-, 24- and 96-well formats for culturing and standardizing spheroids and organoids, “ready-to-use” plates. Inserts are available in various pore sizes for different cell types/samples.
Thermo Scientific GenFollower	F1, F2, electronic single- and multichannel Thermo pipettes	Falcon, Eppendorf and cryogenic tubes, bulk and boxed, sterile and non-sterile, filtered or unfiltered pipette tips, autoclavable micropipettes.
Reddot	Antibodies, assay kits, ELISA kits	Primary and secondary antibodies for labeling, cell cycle and apoptosis assay kits. Enzyme activity and metabolic kits. Conventional and ready-to-use ELISA.
Harps Global	Powder-free and powdered latex, Nitril Xpert, Nitril XtraLite, Vinyl	Sterile gloves can be ordered by the box. For special requirements, please contact us, as we also offer other glove types beyond those listed here.
Molecular Devices	ImageXpress, CellXpress.ai, SpectraMax Multimode Readers, AquaMax, DispenCell, ClonePix, CloneSelect	Automated fluorescence widefield and confocal imaging systems, AI-based analysis software. Multimode readers: iD3 and iD5. Labeling kits and reagents for live-cell analysis. Systems for colony picking and isolation. CellXpress.ai, 2D/3D cell seeding automation.
Beckman Coulter	CytoFLEX, CytoFLEX mosaic, CytoFLEX nano, CytoFLEX SRT, Vi-CELL BLU, CytoFLEX mosaic Spectral Detection module	Flow cytometers (conventional and spectral), sorters, centrifuges, cell counters. Wide range of reagents and kits. Spectral module for CytoFLEX S and LX flow cytometers.
TheWell Bioscience	Bioinks, matrices, reagents, inserts and plates	Matrices (VitroGel®, hydrogel-based, “xeno-free”, requiring no UV, heat or chemical treatments), bioinks, plates, assay kits, media and biomarkers for 3D cell culture (organoids, spheroids, stem cells, MSCs, etc.).
Nuaire, Biobase, BS, BioSpherix, Zenith Lake	CO2 incubators, BSCs and laminar flow hoods, ULT freezers, hypoxia chambers	Biological safety cabinets and fume hoods in various sizes, ultra-low temperature freezers, hypoxia incubators and chambers.

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FURTHER WORKFLOWS

3D Cell Culture | Integrated automated platforms | Detection and Analysis | EV Research, Nanoparticles | Molecular Biology | Liquid Handling Automation Systems and Robots

REQUESTS FOR QUOTATION, QUESTIONS

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This workflow online, with product and manufacturer links: www.bio-science.hu/en/lab-workflows/cell-based-workflows

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