

WORKFLOW · IN FOCUS 2025

INTEGRATED AUTOMATED PLATFORMS

Milestones in Automation

Automated solutions for individual steps or full workflow integration!

WORKFLOW STEPS

1	Sample Preparation, Liquid Handling	Biomek i-Series and NGeniuS pipetting robots Beckman Coulter	Flex and OT-2 liquid handling systems Opentrons
		Maxwell nucleic acid isolation system Promega	Echo acoustic liquid handling robot Beckman Coulter
		CellMek SPS flow cytometry sample preparation platform Beckman Coulter	
2	Cell Culture, Model Building	Rastrum 3D bioprinters Inventia	CellXpress.ai cell culture (2D/3D) automated system Molecular Devices
		BioLector microfermentors Beckman Coulter	Cydem Cell Line Development system Beckman Coulter
3	Selection, Cell Counting	QPix and ClonePix colony pickers Molecular Devices	Vi-CELL BLU cell counter Beckman Coulter
4	Measurement, Analysis	AQUIOS Stem automated flow cytometer Beckman Coulter	Multielectrode Array (MEA) electrophysiology systems Axion
		Flexstation automated pipetting multimode reader Molecular Devices	ImageXpress automated microscope systems Molecular Devices

FEATURED INSTRUMENTS



CELLXPRESS.AI



ORGANOID INNOVATION CENTER

BIO-SCIENCE
A magyar tudomány szolgálatában.

Bio-Science Kft. · Fehérvári út 79, 1119 Budapest, Hungary · Postal address: P.O. Box 129, 1518 Budapest
Phone: +36 1 619 8321, +36 1 619 8316 · Fax: +36 1 799 0159
E-mail: bio-sci@bio-science.hu · www.bio-science.hu

© Bio-Science Kft.

WORKFLOW · INTEGRATED AUTOMATED PLATFORMS

MANUFACTURERS AND PRODUCT FAMILIES

MANUFACTURER	PRODUCT FAMILY	PRODUCT DESCRIPTION
Beckman Coulter	Biomek i Series	High-throughput liquid handling robots with unmatched flexibility and capacity
Opentrons	Flex and OT-2 pipetting robots	Solutions with exceptional value for money and an impressive library of validated protocols, easily integrated into any automated workflow thanks to their open-source design. Also available in a HEPA-filtered version
Promega	Maxwell nucleic acid purification system	Cartridge-based benchtop instrument for fast, high-yield DNA or RNA isolation from 1-16 or 1-48 samples
Inventia		3D bioprinter, RASTRUM platform for printing droplets, embedded or complex 3D models, and tissue structures. A wide selection of matrices and bioinks makes it easier to model the right microenvironment. Reproducible results with a fast, user-friendly automated platform, even for sensitive cells.
Axion Biosystems	OMNI, LUX, Maestro	OMNI and Lux live-cell automated monitoring systems for kinetic measurements in 2D and 3D applications, even with high sample numbers. Maestro, multiwell microelectrode array (MEA) and impedance system for measuring the electrical activity of cells, also available with an Organoid module.
Molecular Devices	ImageXpress Pico, Nano, HCS.ai Confocal, SpectraMax, ClonePix, Clone Select, Automated 3D System-CellXpress.ai, AI IN-Carta SW	Imaging fluorescence and confocal systems, AI-based analysis software. Multimode readers. Organoid “expansion” service. Labeling kits and reagents for live-cell analysis. AI-based 2D / 3D cell culture automation. Systems for colony picking and isolation.

FURTHER WORKFLOWS

3D Cell Culture | Detection and Analysis | EV Research, Nanoparticles | Molecular Biology
Liquid Handling Automation Systems and Robots | Cell-based workflows

REQUESTS FOR QUOTATION, QUESTIONS

bio-sci@bio-science.hu · Phone: +36 1 619 8321, +36 1 619 8316
This workflow online, with product and manufacturer links: www.bio-science.hu/en/lab-workflows/integrated-automated-platforms

BIO-SCIENCE
A magyar tudomány szolgálatában.

Bio-Science Kft. · Fehérvári út 79, 1119 Budapest, Hungary · Postal address: P.O. Box 129, 1518 Budapest
Phone: +36 1 619 8321, +36 1 619 8316 · Fax: +36 1 799 0159
E-mail: bio-sci@bio-science.hu · www.bio-science.hu

© Bio-Science Kft.