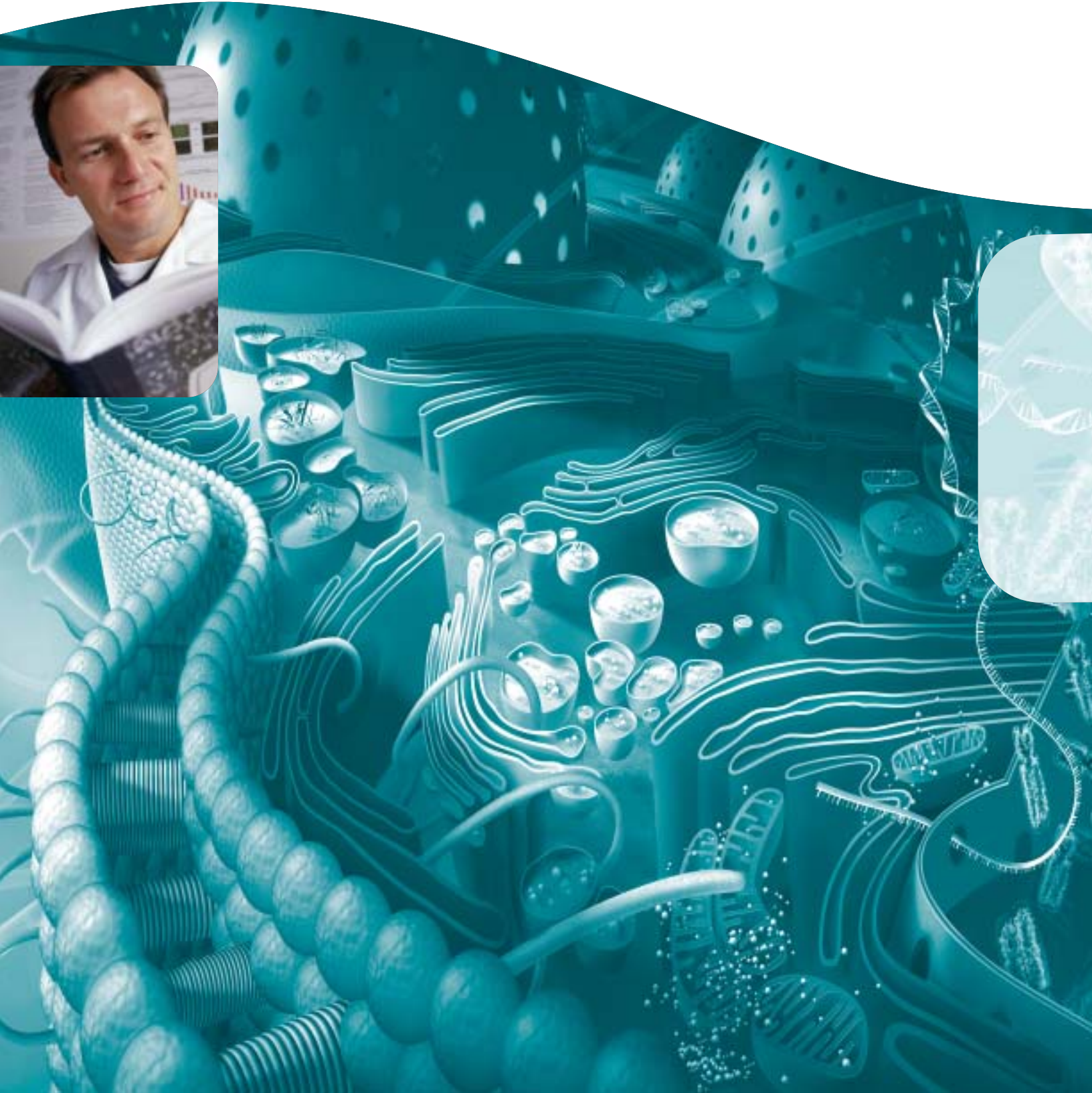




*The cellular discovery pathway begins here.*

**CELL LAB**  
DELIVERING CONTEXTUAL BIOLOGY





# CELL LAB

DELIVERING CONTEXTUAL BIOLOGY

## *The cellular analysis world*

As scientists move from locating and identifying genes to integrated global analysis, Systems Biology becomes the emerging paradigm. Cellular analysis will offer researchers new perspectives on biological information. With a better understanding of the spatial and temporal nature of events, a deeper contextual type of data will emerge. This will accelerate both drug and discovery research through the validation of targets and biomarkers, and the elimination of process bottlenecks.

## *The Cell Lab advantage*

To provide enhanced access to functional biological information, Cell Lab integrates a wide range of specialized reagents, platforms and software designed expressly to help cellular analysis researchers automate, standardize and simplify key processes. By delivering easy access to a full spectrum of interrelated and synergistic cellular analysis tools – all augmented by our comprehensive line of automated solutions – our Cell Lab products help accelerate the identification of new signal transduction pathways. These discoveries will lead to new targets with biological, diagnostic and therapeutic interest – and help the science of tomorrow happen today.

## *A legacy of innovation*

As a life science research and diagnostic company, we've been actively involved in genetic research for decades. And our Systems Biology approach of providing instrument systems and complementary products has resulted in more efficient and effective laboratory processes throughout the biomedical testing world. Like all our other products, Cell Lab is designed to serve as an extension of your thinking, making it easier for you to do your best science, your way.

# Prepare

The cellular analysis process starts by getting samples into the appropriate format for subsequent analysis. This phase is critical to the accuracy, precision and reproducibility of the final results.



# Identify

Next, researchers must ascertain the characteristics of the cell population under study, including its magnitude, viability, and type. In this way, cells of interest are defined.



# Probe

At this point, the goal is to map and test cell signaling pathways to better understand the interrelationships between genes, proteins and metabolites within a living cell. This leads to a reliable group of testing methods, and enables the migration of new regimes to a multiplex environment.



# Sort

Cellular populations are now grouped into discrete fractions for further study and potential downstream therapeutic use. This is a critical step in Systems Biology and translational solutions, setting the stage for new proteomic and genomic studies, and cellular therapies.



# Evaluate

The preceding steps have focused on putting the cellular system under investigation into a new and informative biological context. Now, we manage and analyze the data in such a way as to provide insight into the complex interactions that regulate living cells.



# Diagnose

The important discoveries gleaned from the cellular analysis process are used to create highly focused and effective new cell-based assays that target potential candidates associated with specific disease states. In this way, our complex scientific tools help scientists enhance health and well-being, and offer hope for a future where even the most debilitating illnesses can be cured.



Prepare



- Automated liquid handling
- Automated lysing
- General purpose centrifugation
- High performance centrifugation
- Ultracentrifugation

Identify



- Cell counting and sizing
- Cell markers
- Cell viability analysis
- Flow cytometry
- Image cytometry
- Monoclonal antibodies

Probe



- Automated liquid handling
- Flow cytometry
- Image cytometry
- Microarray technology
- Monoclonal antibodies
- Signal transduction assays

Sort



- Cell sorters
- Elutriation
- Micro-piezo electric tips
- Reagents (various)
- Ultracentrifugation

Evaluate



- Flow cytometry
- Genomics solutions
- Monoclonal antibodies
- Multi-mode plate reading
- Proteomics solutions
- Software informatics

Diagnose



- Automated liquid handling
- Flow cytometry
- Immunoassays
- Monoclonal antibodies
- Software algorithms

*For information on our comprehensive line of Cell Lab systems, please contact your local Beckman Coulter representative or visit our web site at*

*[www.beckmancoulter.com/cell.lab](http://www.beckmancoulter.com/cell.lab)*



*Developing innovative solutions in Systems Biology.*

**Innovate** **Automate**  
SIMPLIFY

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