

LEVITAS<sup>BIO</sup>

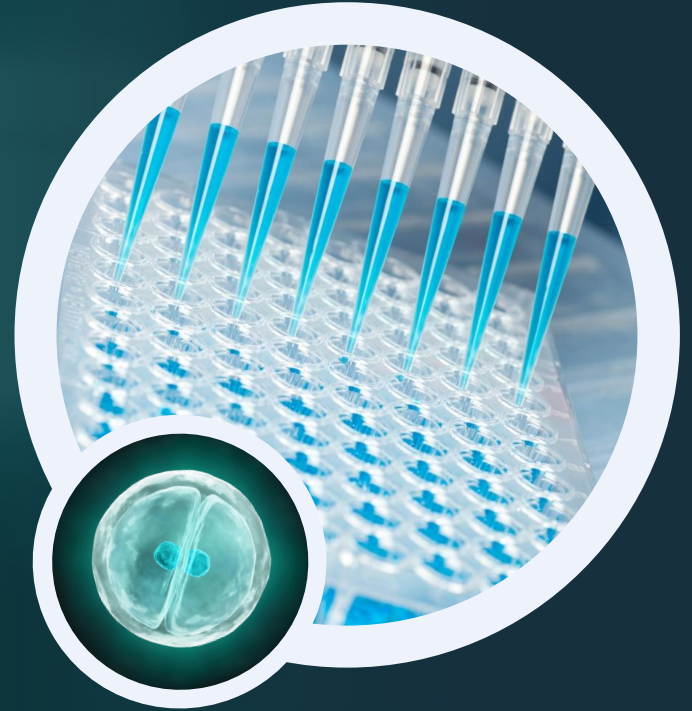
**Discover More,  
Spend Less**

**LeviCell 96 System**

**A High-Throughput Cell Enrichment & Cell Washing  
Platform**

---

Jan 2026





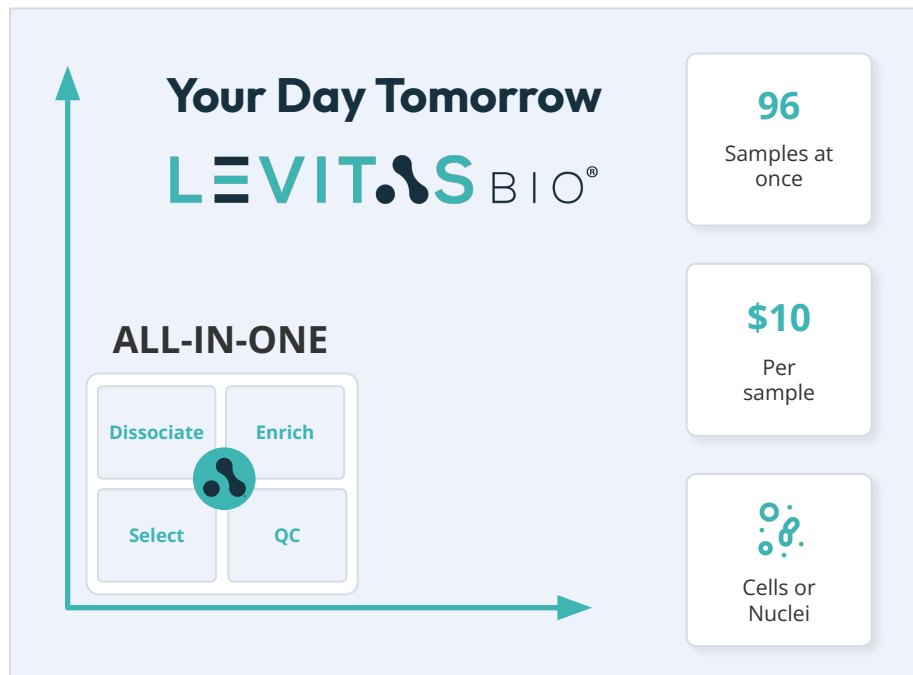
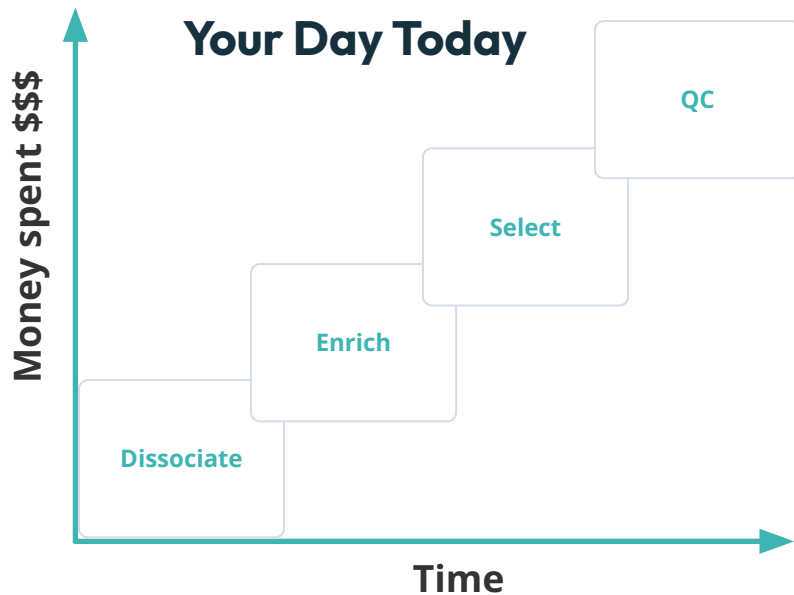
100x throughput



10x lower costs



Superior data/efficiency



# 100x throughput. 10x cheaper. Zero compromises



## 100X Throughput

Fully automated 96-well workflow

- 1-96 samples at a time
- Parallel enrichment and targeted depletion
- SBS format, automated workflow



## 10X Cheaper

\$10 per sample all in

- Includes live cell enrichment and debris removal
- No additional steps required
- Reproducible results well x well



## The Payoff

Samples to insights  
Exponentially faster. Cheaper. Better.

- **Exponential** returns on ROI
- **Scale up** like never before
- **Leapfrog** competition with better data models

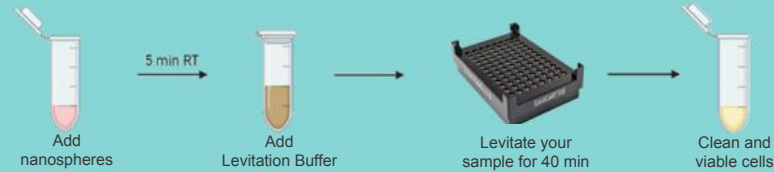
Are you ready for the sample prep revolution?



# Automate Dozens of Manual Steps into One Automatic Step

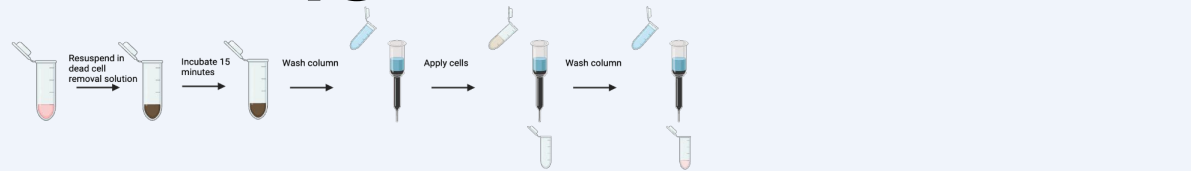
Live Cell Enrichment | Dead Cell Removal | RBC, CD45, Myelin Depletion  
**ALL IN ONE**

LEVITAS<sup>®</sup> BIO

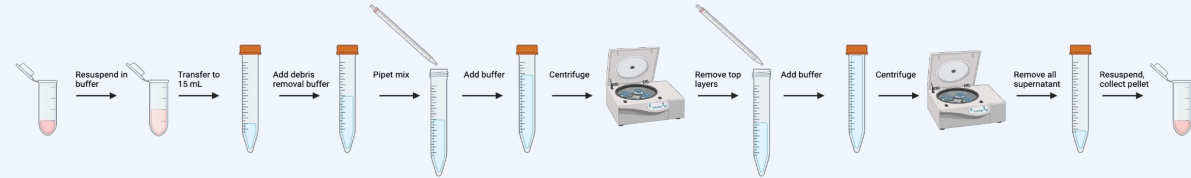


VS

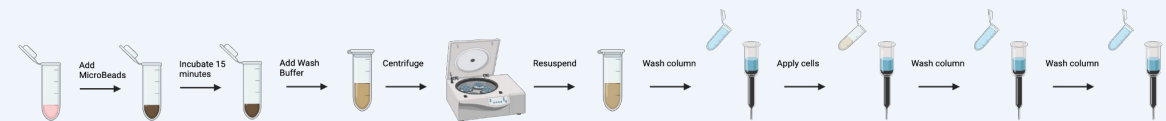
**Traditional:**  
Live cell enrichment using magnetic beads



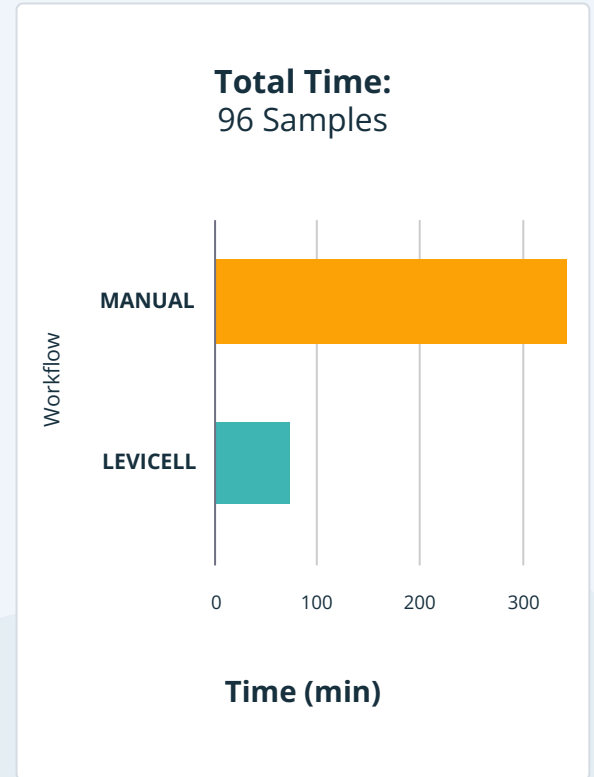
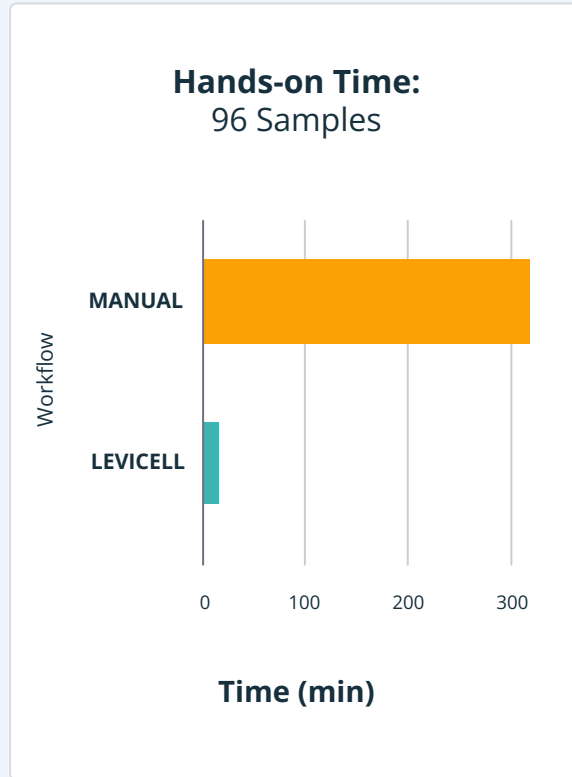
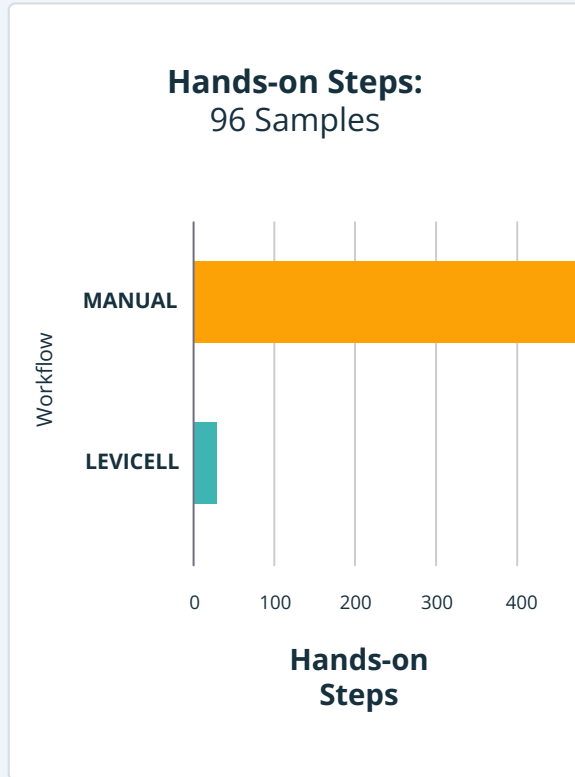
... then debris removal w/  
gradient centrifugation



... then targeted depletion  
using another set of  
magnetic beads



# 100-fold time and step savings on the LeviCell 96 System

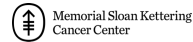


# Validated by Customers Around the World

## Pharma/Biotech



## Academia



# Fast, Simple, Flexible Workflow and Applications

Unmet Need	Current	LevitasBio	Key Benefits
Sample Flexibility	X	✓	<ul style="list-style-type: none"><li>• Non-adherent and adherent cells</li><li>• From bacteria to organoids</li><li>• Debris and contaminant tolerant</li></ul>
Unbiased cellular profile and response	X	✓	<ul style="list-style-type: none"><li>• No stains or markers</li><li>• No high pressures or microfluidics</li><li>• Maintains activation and expression states</li></ul>
Ability to multiplex with LeviSelect depletion assays	X	✓	<ul style="list-style-type: none"><li>• Deplete unwanted cell populations</li><li>• Enrichment and depletion in one assay</li><li>• Workflow consolidation saves time/money</li></ul>



# Key Applications - Automated SBS 96-Well Plate Workflow



## scRNA-Seq

### Pre-encapsulation enrichment

- Debris removal
- Live cells
- Targeted depletion



## 3D Culture

### Organoid & spheroid enrichment

- Debris removal
- Dissociated or whole 3D culture enrichment
- Multi-factorial workflows



## Cytometry

### Incorporates pre-sorting enrichment

- Debris removal
- Live cells
- Targeted depletion

### Cell washing & background removal

- Unbound antibody
- Dyes



## CITE-Seq

### Pre-encapsulation enrichment

- Debris removal
- Live cells
- Targeted depletion

### Cell washing & background removal

- Unbound antibody



# Revolutionary Selective Arrayed Levitation Technology (SALT™)



Originally invented by  
George Whitesides  
at Harvard



George  
Whitesides



Delivering on 8  
years of  
development by  
bringing value to  
high throughput  
users



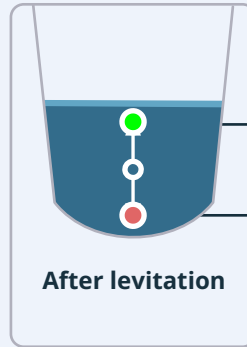
Proprietary High-Density  
Levitation Array enables  
gentle isolation and  
characterization of cells  
without the use of any  
labels or markers



Example  
Starting  
Position



Before levitation



After levitation

Target Cells

Dead cells  
and Debris

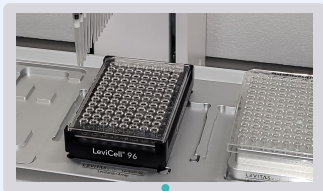


# The Levitation Solution – A Revolutionary Workflow

## Add Levitation Agent

 **5** min

- Levitation Agent dispensed into up to 96 wells
- Levitation begins on SALT Array
- Assay of interest added, for interaction studies



## Levitate

 **20-40** min

- Levitation begins
- Levitation height depends on cell viability, interactions, etc.
- Results displayed (future imaging upgrade)

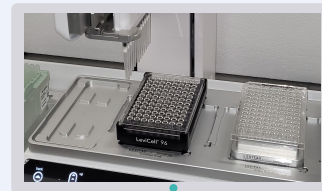


## Collect

 **5** min

- Fraction of interest collected for downstream

Sequencing | Culturing | PDX, etc.





# Thank you

*LevitasBio drives scientific discovery by delivering solutions that enable accurate, reliable, and reproducible results*

---

[Levitasbio.com](https://levitasbio.com)

For Research Use Only. Not for use in diagnostic procedures. ©2025 LevitasBio, Inc. All rights reserved. LeviCell, LeviPrep, LeviSelect, LevitasBio and the LevitasBio logo are the property of LevitasBio, Inc. All other trademarks are the property of their respective owners. 90-00343B0108