

Automating Evercode™ with Integra

Scale up Single Cell Sequencing with
Automation

Streamlined Workflow
Consistent, High-quality Data
Easy to Get Started



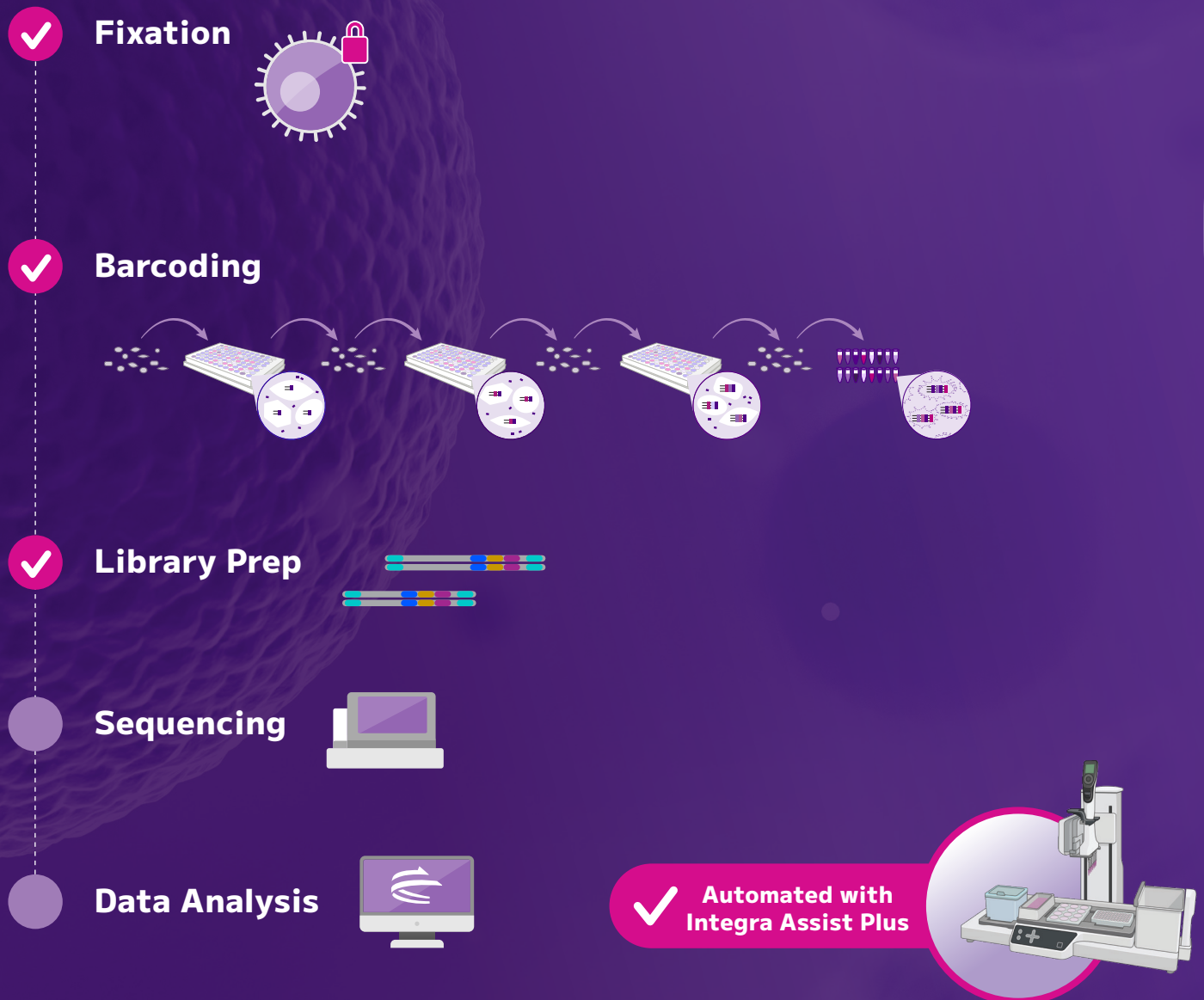
PARSE
BIOSCIENCES

Evercode

The Complete Single Cell Solution

Combinatorial Barcoding with Evercode

With combinatorial barcoding, the cells are initially fixed and permeabilized, transforming each into its own self-contained reaction vessel, eliminating the need to isolate individual cells physically. Through the split-pool barcoding process, cells are tagged with a vast array of barcode combinations, enabling effortless scaling. Pipetting along Evercode's workflow, from fixation to library preparation, can be automated using Integra's Assist Plus.



Maximize Efficiency with Less Hands-on Time

From Active
Pipetting to
Passive
Efficiency

With Evercode™ and the Integra Assist Plus, scaling single-cell experiments becomes more efficient and easier than ever. Automating this workflow reduces your hands-on time by up to 80% and cuts pipetting steps by 93%. Whether you're profiling hundreds or up to a million cells, Evercode's combinatorial barcoding ensures high data quality with low doublet rates. By improving throughput and traceability, this solution helps you streamline your studies, scale experiments more easily, and regain valuable lab time for other critical tasks.

Hands-on Time ▼ 80%
Pipetting Steps ▼ 93%

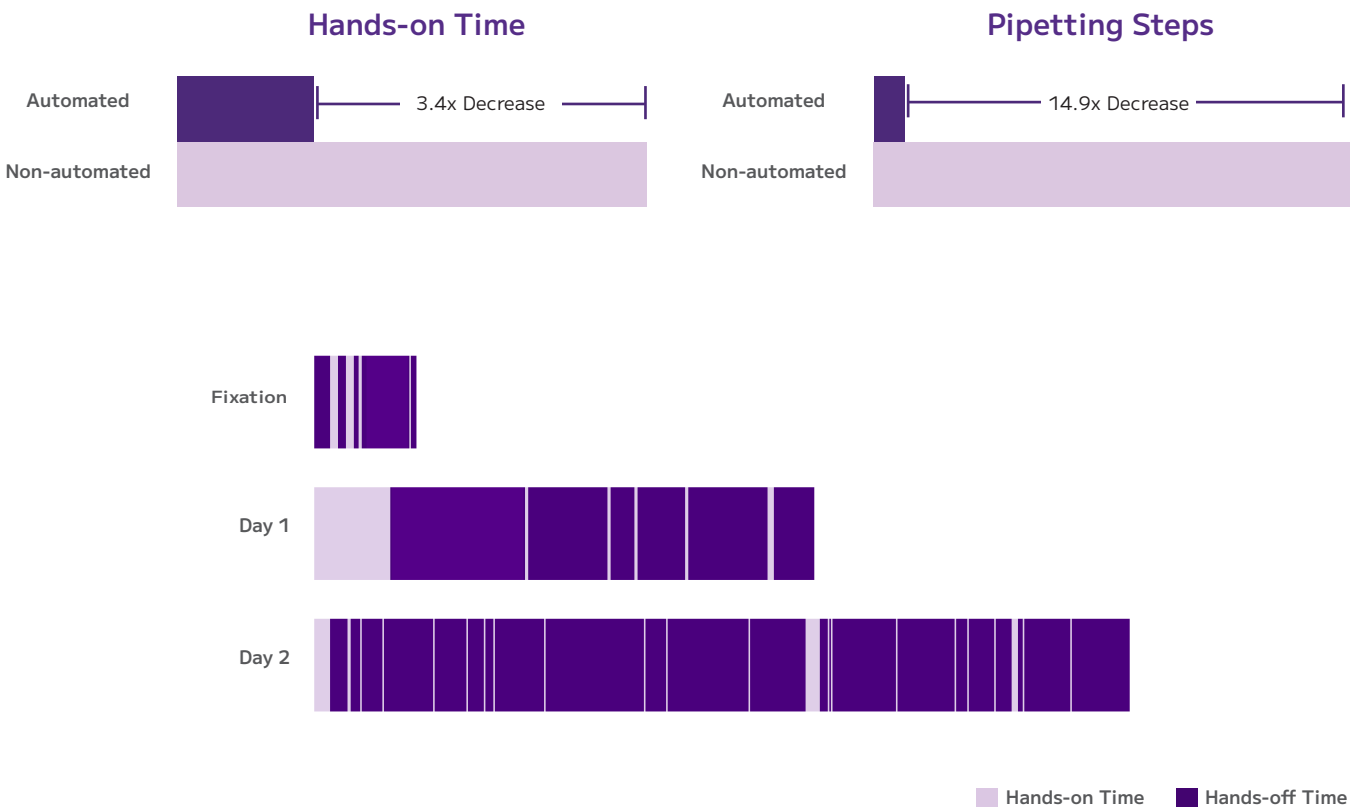


Figure 1. Breakdown of total hands-on time (light purple) vs hands-off time (purple) spent across the total workflow.

Effortless Automation, Consistent Data

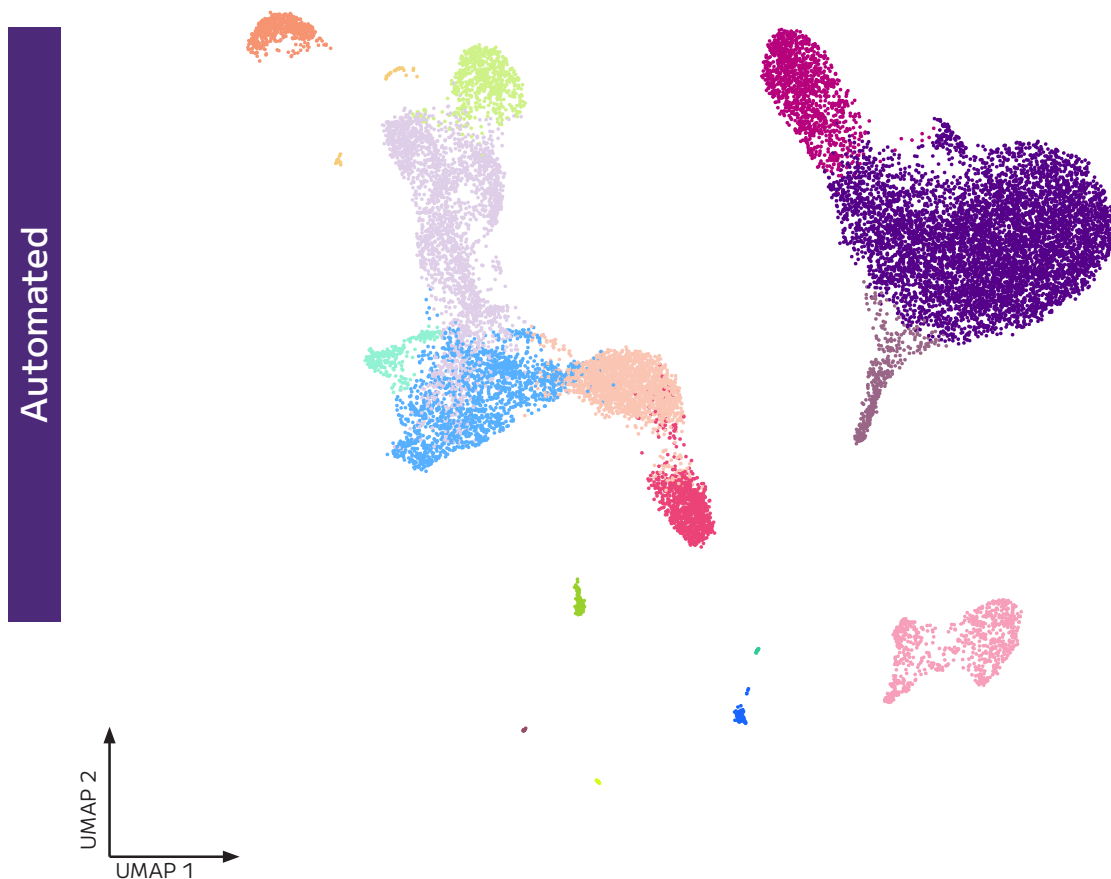
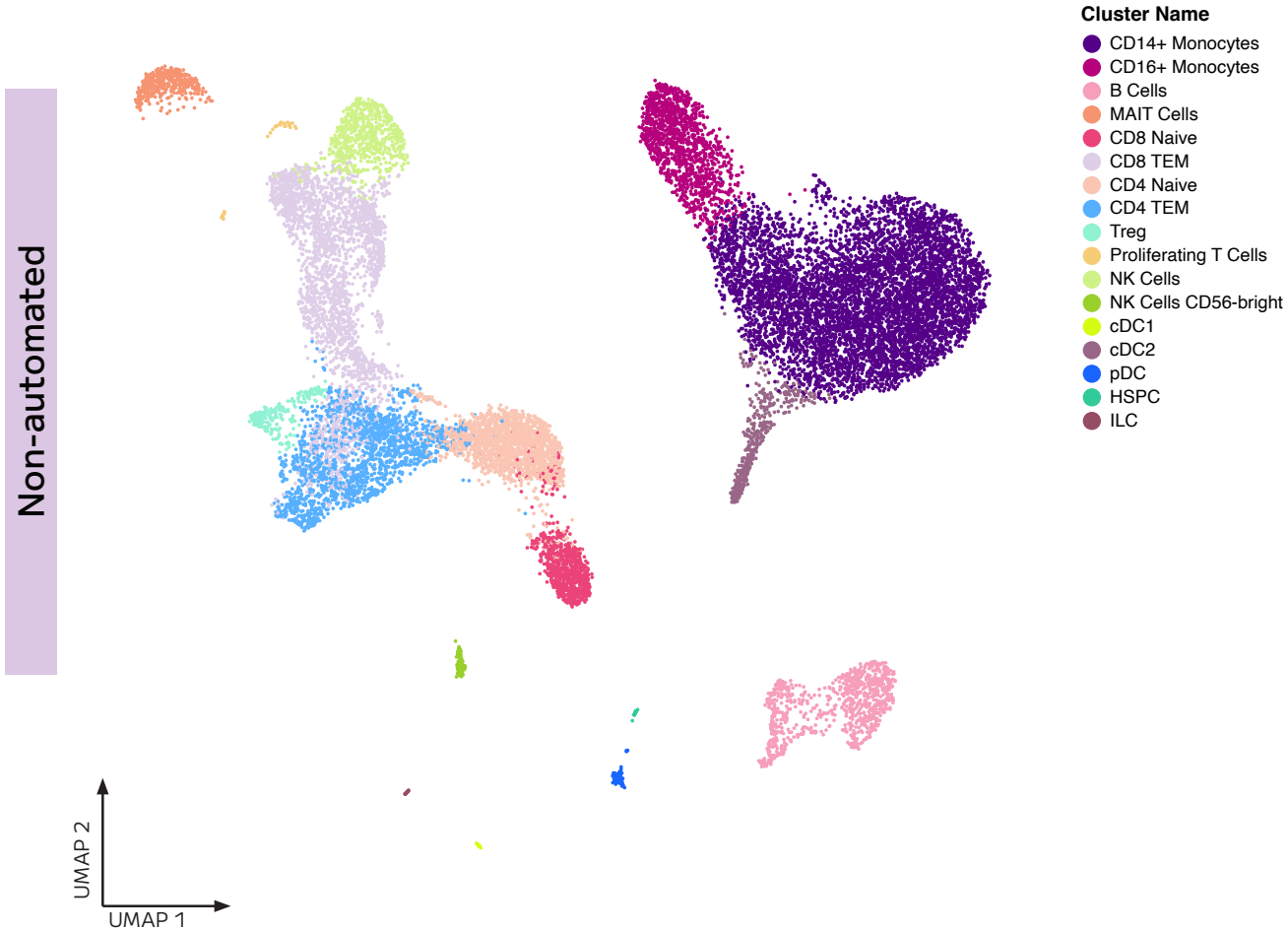


Figure 2. Consistent cell type profiling of human PBMC data generated using the automated and the non-automated Evercode WT v3 full workflows. Data were filtered, integrated and annotated in Trailmaker. The default data processing parameters in Trailmaker were used including the Harmony integration method. A mitochondrial content cutoff of 8% was applied. UMAPs showing cell types were exported from Trailmaker as SVG files.

Parse's Evercode™ technology, paired with Integra's Assist Plus, ensures that automation does not compromise the high-quality data you rely on. This integrated workflow maintains the consistency of gene expression results, matching those from non-automated methods. By streamlining the process, it minimizes variability and upholds the reliability of your single cell RNA sequencing results. With seamless integration and dedicated support from both teams, you achieve robust data integrity while benefiting from enhanced efficiency.



Correlated Cell Type and Gene Detection

Sequencing Metrics	Cell Lines		Human PBMCs					
	Non-automated	Automated	Donor 1		Donor 2		Donor 3	
			Non-automated	Automated	Non-automated	Automated	Non-automated	Automated
Estimated number of cells	22,193	24,992	6,745	4,991	6,025	7,878	6,381	5,967
Mean reads per cells	36,000	36,000	60,000	60,000	60,000	60,000	60,000	60,000
Median Transcripts/cell	11,066	9,271	8,138	7,983	8,342	8,562	8,712	8,169
Median Genes/cell	4,619	4,185	3,003	2,947	3,042	3,069	3,065	2,948

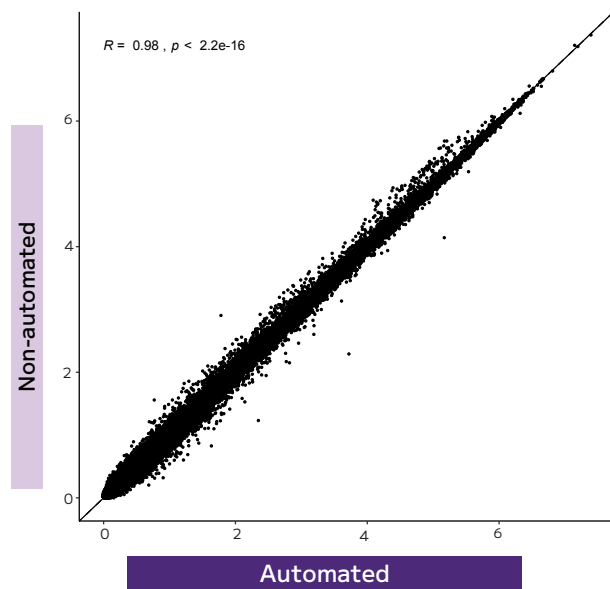


Figure 3. Correlation of normalized human PBMC gene expression profiles generated using the automated and the non-automated Evercode WT v3 barcoding workflows.

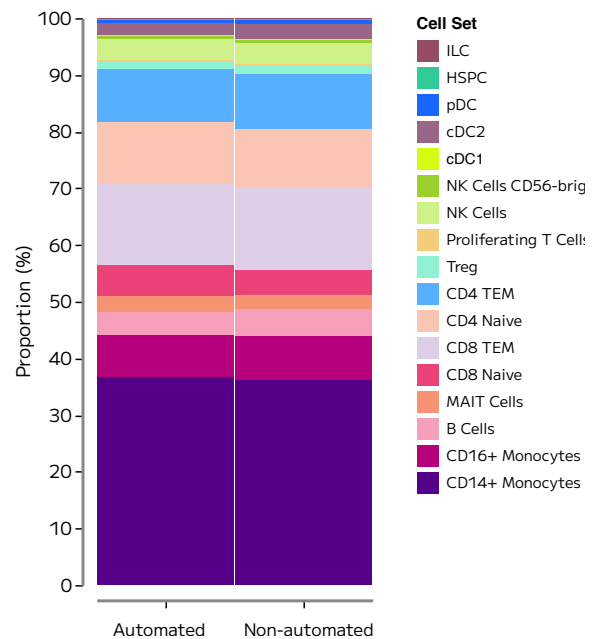


Figure 4. A comparison of relative abundance of the major cell types (presented as % of total cells) was performed to confirm concordance of expression between non-automated and automated methods. Cell type proportions were plotted in Trailmaker. The frequency plot was exported as an SVG file.

Easy to Get Started

Get up and running quickly with no coding or automation experience required, thanks to an intuitive interface and pre-written scripts that are ready to load and use. Automation is applied to key parts of the workflow—from automating pipetting during the run to streamlining data analysis with Trailmaker—while we support the entire workflow to ensure seamless integration. This approach enables you to focus on your experiments, knowing you can rely on automation to reduce manual effort.

Index	Source Pos.	Source Well	Target Pos.	Target Well	Mix Volume
1	C	A1	B	A1	75 µl
2	C	A1	B	A2	75 µl
3	C	A1	B	A3	75 µl
4	C	A1	B	A4	75 µl
5	C	A1	B	A5	75 µl
6	C	A1	B	A6	75 µl
7	C	A1	B	A7	75 µl
8	C	A1	R	A8	75 µl





PRODUCT

PART NUMBER

Evercode Automation Package with INTEGRA

ASSIST PLUS

One Integra Assist Plus instrument with all accessories needed to run Parse workflows. Two Evercode WT v3 kits and one UDI plate.

NTWT3300

Evercode Automation Mega Package with INTEGRA

ASSIST PLUS

One Integra Assist Plus instrument with all accessories needed to run Parse workflows. One Evercode WT v3 with UDI plate and one Evercode WT Mega v3 kit.

NTWT3500

Evercode Automation Starter Kit for INTEGRA

ASSIST PLUS

All Parse-provided components required to perform Parse Evercode workflows on the Integra Assist Plus.

NTAC1100

Your Insights Matter to Us

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