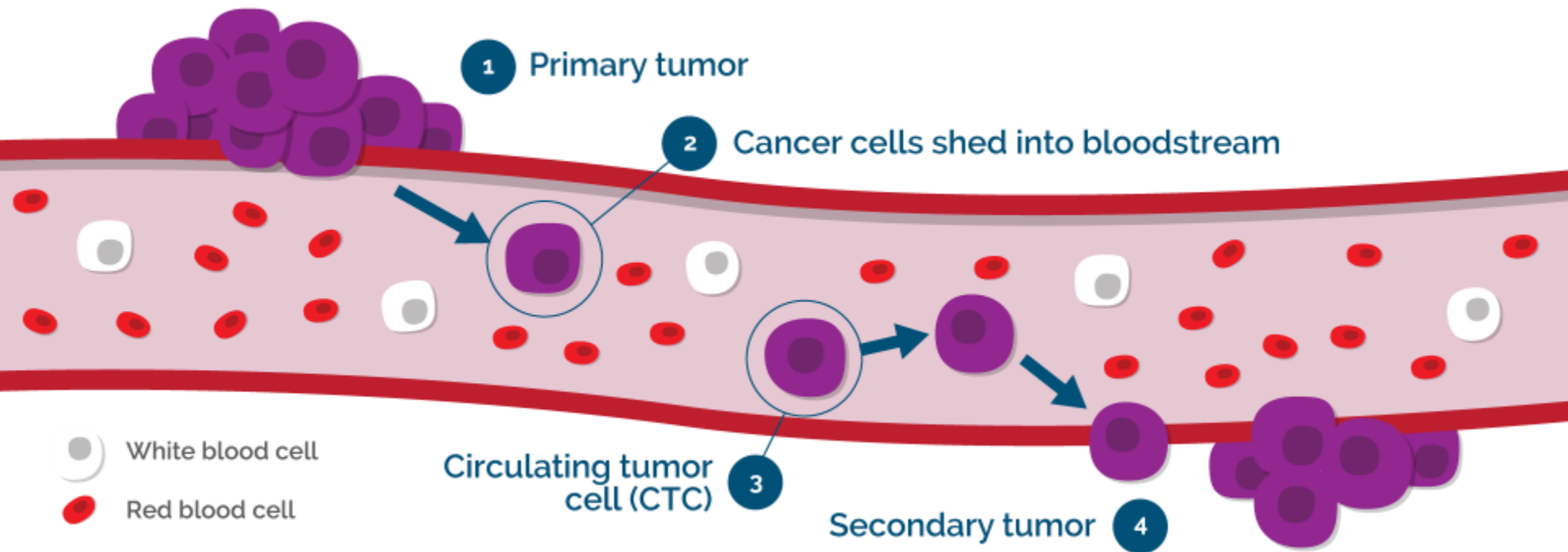


Overview of the VTX-1



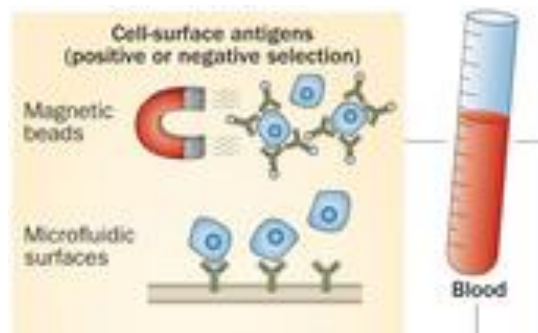
Circulating Tumor Cells Provide Direct Access to Intact Cancer Biology



First Generation: Outdated & Obsolete



CellSearch[®]
Circulating Tumor Cell Test



Miyamoto D.T. et al., Nature Reviews Clinical Oncology, 11, 401-412 (2014)

Market Demands:

- *Label-free CTC Capture*
- *More than CTC Counting*

The VTX-1 Liquid Biopsy System

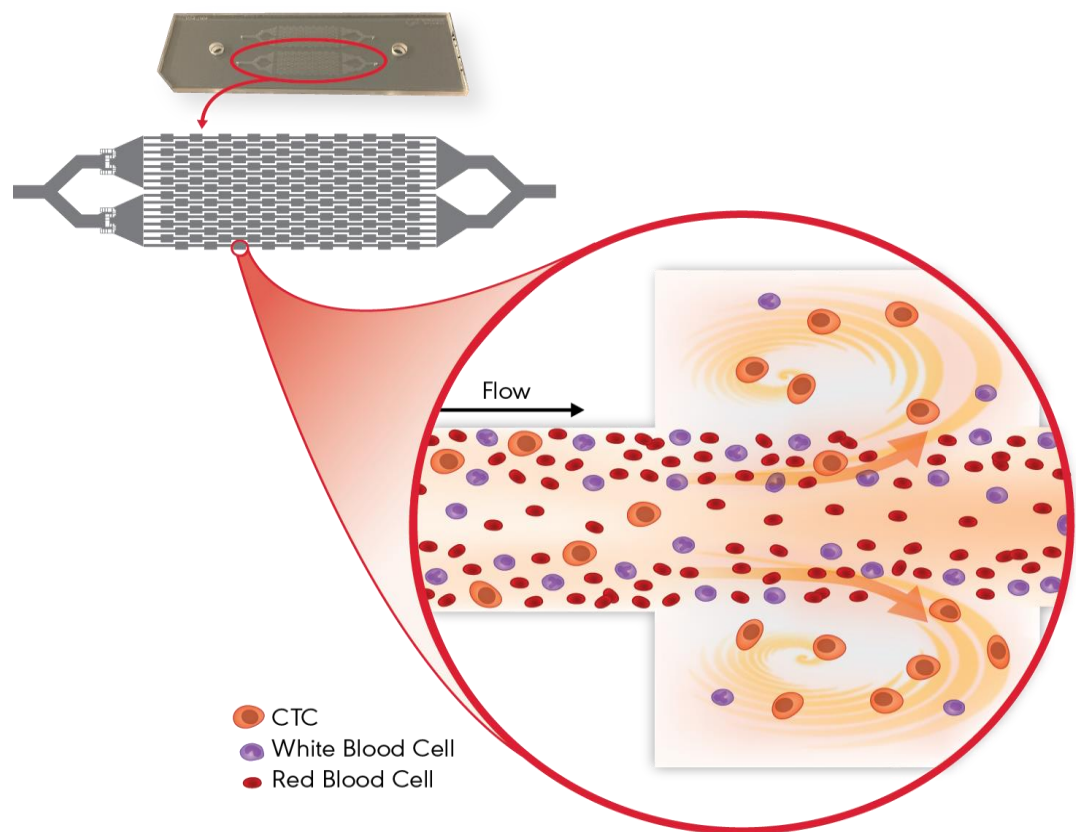


- ✓ High recovery
- ✓ High purity
- ✓ Viable cells
- ✓ Simple process
- ✓ Low cost
- ✓ Label-free
- ✓ Flexible sample volume
- ✓ Flexible collection

Fast and label-free isolation of CTCs from whole blood

Empowering Next Generation Cancer Diagnostics

CTC trapping enabled by inertial microscale vortices



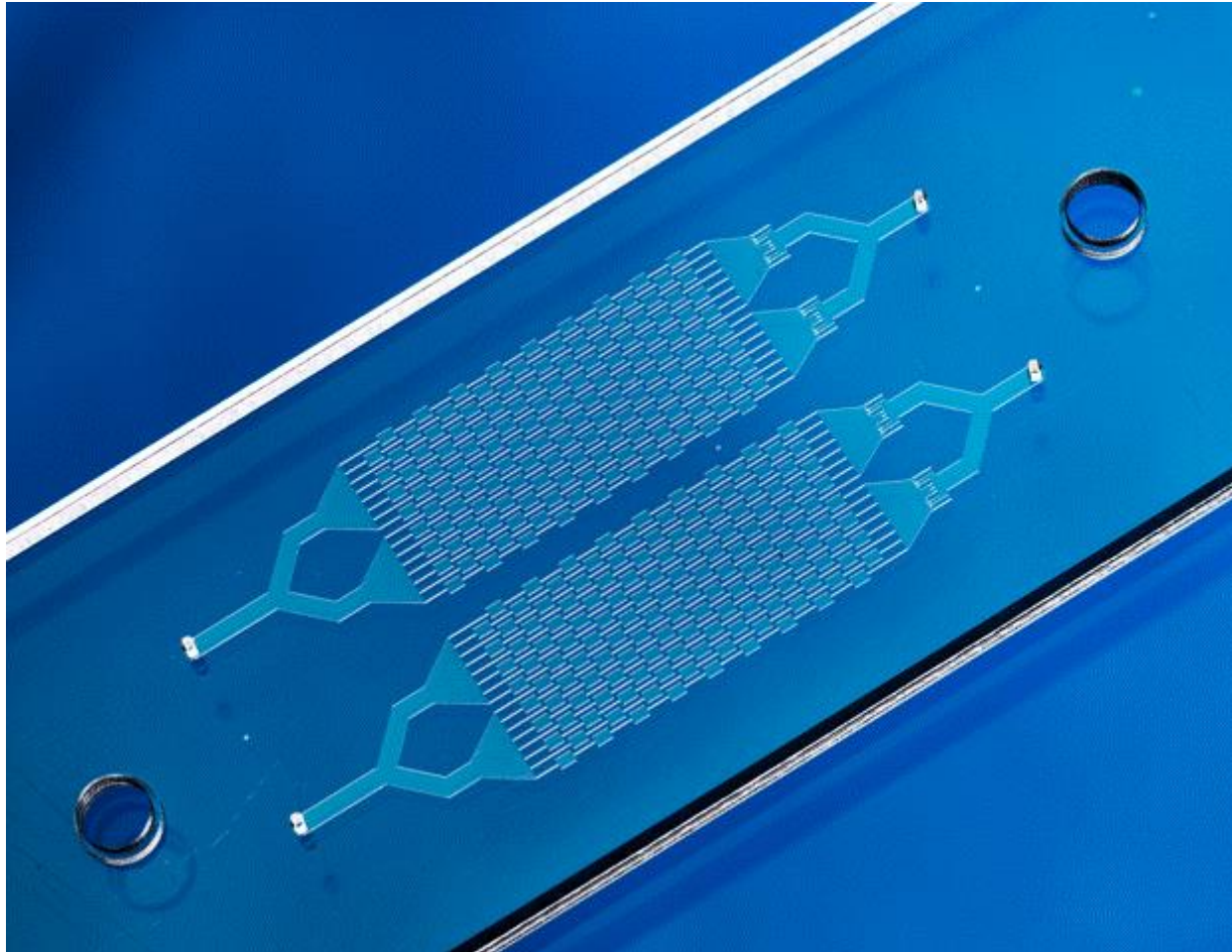
“Improving CTCs recovery along with high cellular purity while maintaining viability have tremendous value for translational research and clinical diagnostic applications. VTX-1 holds the potential to revolutionize blood-based diagnostics.”

*Dr. Massimo
Cristofanilli*

[1] Mach, A. et al. *Lab Chip* 11, 2827 (2011). [2] Che, J. et al. *PlosOne* 8, 10 (2013).
[3] Sollier, E. et al. *Lab on a chip* 14, 63-77 (2014). [4] Che, J. et al., *Oncotarget* (2016).

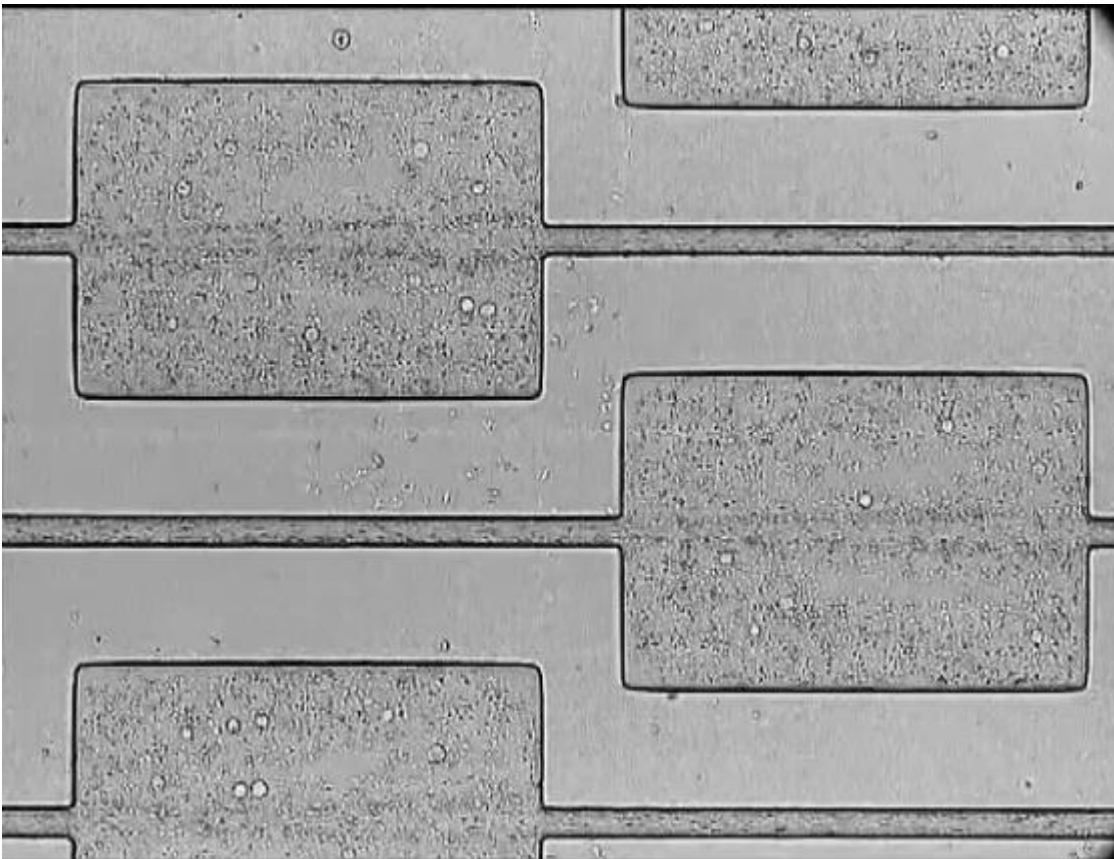
Vortex Chip – Where the Magic Happens

2 Devices to
enable up to
16 mLs of
blood to be
processed



16 channels
each with 8
reservoirs in
series

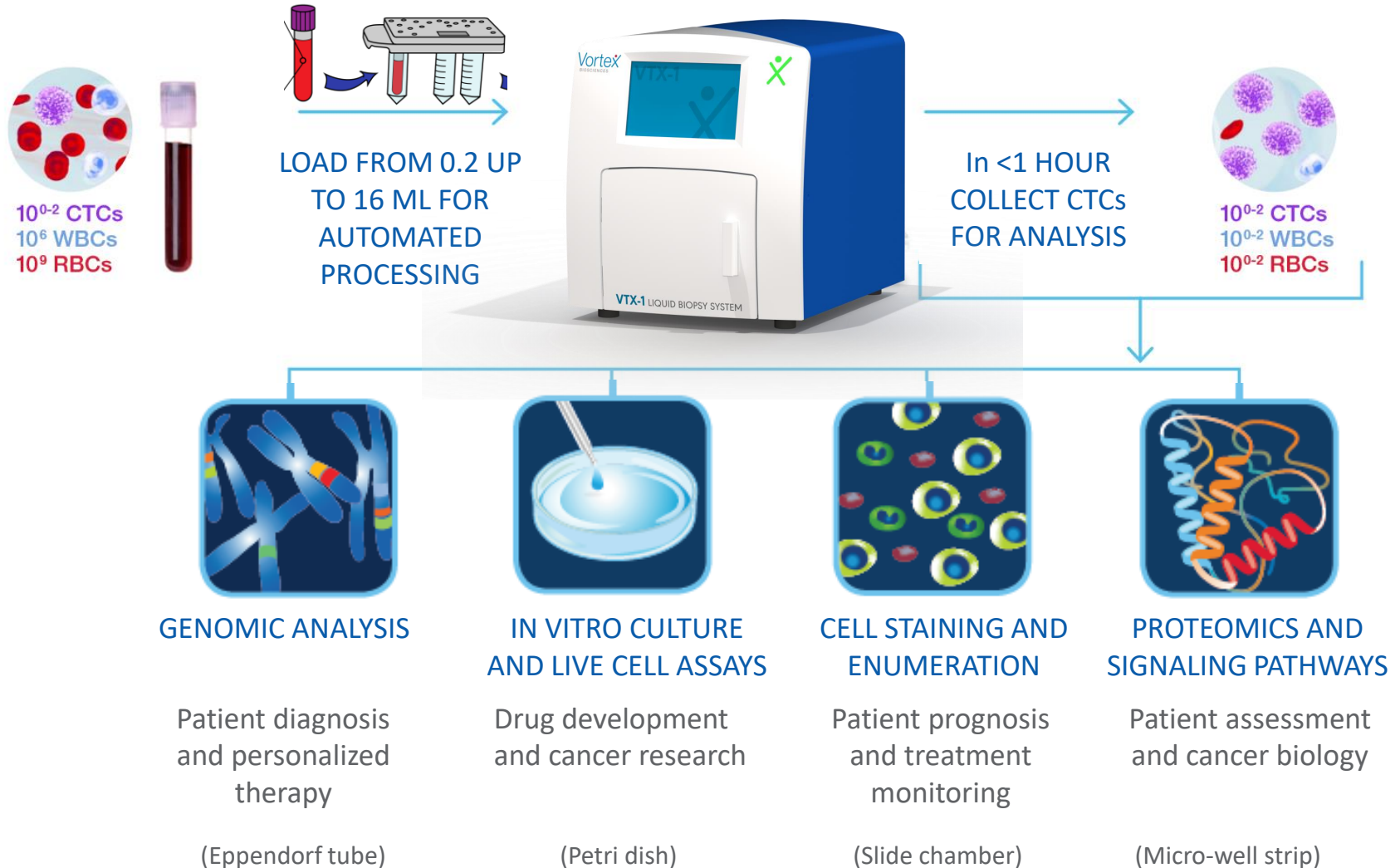
Empowering Next Generation Cancer Diagnostics



Watch the video:

https://www.youtube.com/watch?v=MJxWpddYD_c

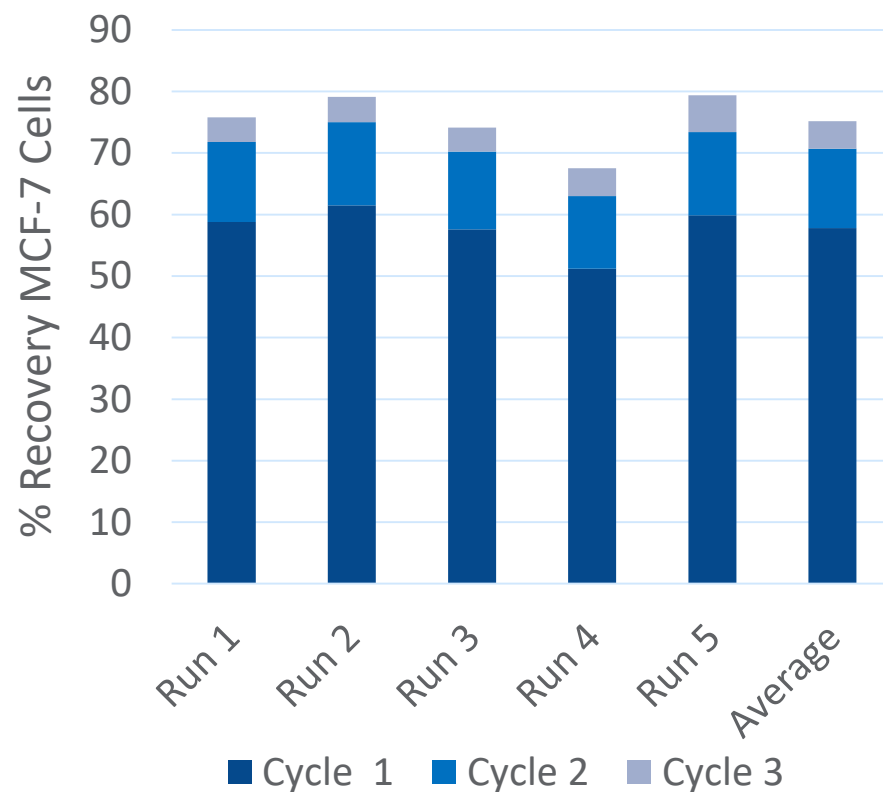
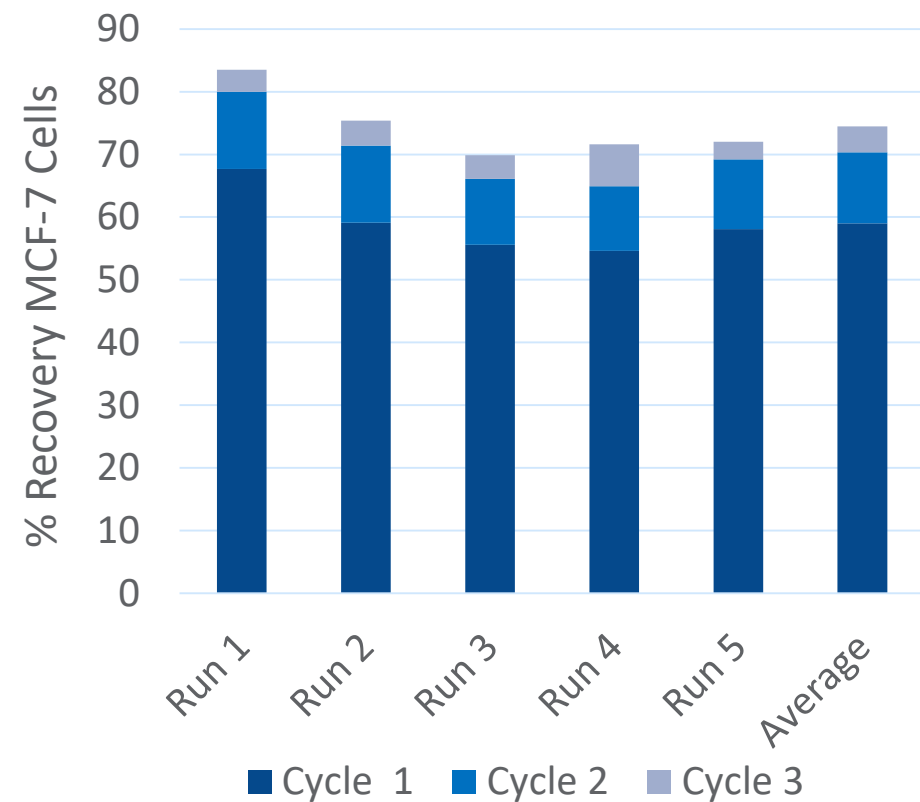
A Simple Workflow for CTC Isolation



High Repeatability from Run to Run

CV=7.3%

CV=6.4%



Strong Set of Peer Reviewed Publications

21 Peer reviewed Publications

SCIENTIFIC
REPORTS

nature

Oncotarget

PLOS ONE

AIP | Biomicrofluidics

>50 Posters Presented at Scientific Conferences

AACR

American Association
for Cancer Research

FINDING CURES TOGETHER™

Molecular Med
TRI-CON 2015

GC

Gordon Research Conferences

ITSS2016
Dublin, Ireland • 9-13 October, 2016



Vortex
BIOSCIENCES

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Fast and label-free isolation of CTCs from whole blood

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