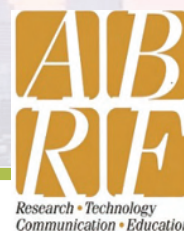




Philadelphia PA



2019



The Northeast and Mid-Atlantic ABRF Chapters
NERLSCD and MAD SSCi
Joint Annual Meeting

November 6 - 8, 2019
Philadelphia, PA

*Exploring New Technologies to Drive Advances in
Basic, Clinical and Translational Research*





NERLSCD
 Northeast Regional Life Sciences
 Core Directors



Mid-Atlantic Directors and Staff of Scientific Cores

Welcome to Philadelphia PA 2019

Dear Attendee,

We would like to welcome you to the 2019 joint Mid-Atlantic and Northeast ABRF chapter meeting here in Philadelphia. The meeting theme of “Exploring New Technologies to Drive Advances in Basic, Clinical and Translational Research” has allowed us to put together a diverse and well-rounded agenda that we hope you find to be informative and engaging.

Our agenda includes an opening reception at the historic and venerable Franklin Institute, three keynote talks, multiple breakout sessions, a poster session, and core laboratory tours. As always, our goals are to provide a forum for discussion for core facility staff that address our unique challenges.

A meeting of this scale is not possible without enormous efforts and we are very grateful to our joint organizing committee, and in particular, Luellen Fletcher and David Needleman who are hosting the meeting, and the University of Pennsylvania. The meeting also would not be possible without our academic and corporate sponsors who provide the lions’ share of the funding and allow us to keep registration costs very low. In particular, we are thankful to our Platinum and Platinum+ sponsors and hope you have taken advantage of their co-located user group meetings on Wednesday and attend their sponsor plenary sessions.

We look forward to spending time with our ABRF colleagues from the Mid- Atlantic and Northeast region and points beyond. If you have any questions, please do not hesitate to reach out to us.

Sincerely,

Stuart Levine, President, Northeast Regional Life Sciences Core Directors (NERLSCD)
 Kevin Gerrish, President, Mid-Atlantic Directors & Staff of Scientific Cores (MADSSCi)

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Save the Dates!	Back Cover

ABRF Chapters



Northeast Regional Life Sciences Core Directors Organizing Committee Members

Luellen Fletcher – University of Pennsylvania (Host)
David Needleman – Delaware Valley University (Host)
Stuart Levine – Massachusetts Institute of Technology (President)
Roxana del Rio-Guerra – University of Vermont (Treasurer)
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Robert Donnelly – Rutgers University
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Shahina Maqbool – Albert Einstein College of Medicine
Susanna Perkins – University of Massachusetts Medical School
Robert Steen – Harvard Medical School
W. Kelley Thomas – University of New Hampshire (Host, NERLSCD 2020)
Andrew Vinard – University of Massachusetts Amherst

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Roxann Ashworth - Johns Hopkins University (Secretary)
Annabelle Stein - University of North Carolina Chapel Hill (Treasurer)
Nick Ambulos - University of Maryland Baltimore
Lauren Ciotti - Johns Hopkins University
Shawn Franckowiak - Johns Hopkins University
Debby Hollingshead - University of Pittsburgh
Joanne Lannigan - University of Virginia Charlottesville, Flow Support Services, LLC
Rena Lapidus - University of Maryland Baltimore
Jeffrey Smith - Johns Hopkins University
Trina Wafle - West Virginia University

The Franklin Institute Science Museum, located just a couple blocks from the conference hotel, is named after the American scientist and statesman Benjamin Franklin, and houses the Benjamin Franklin National Memorial. Founded in 1824, the Franklin Institute is one of the oldest and premier centers of science education and development in the country. Today, the Institute continues its dedication to public education and creating a passion for science by offering new and exciting access to science and technology in ways that would dazzle and delight its namesake.





Daily Program

Wednesday, November 6

Program Guide

Please visit the website for session abstracts and speaker biographies:
<https://nerlscd.abrf.org/nerlscd-madssci-2019-detailed-program/>

Pre-Conference Workshops and Activities

Pre-Conference Workshops	
9:00 am - 4:00 pm	Cytek Biosciences User Group Ballroom D
1:30 pm - 5:00 pm	Agilent User Group Meetings Salon Rooms 5 and 6 Genomics 1:30 - 2:40 pm iLab 3:00 - 5:00 pm
2:30 pm - 3:45 pm	New England BioLabs User Group Salon rooms 3 and 4

4:00 pm On-site registration and check-in	
	Registration table open, Foyer outside Ballrooms C and D
2:00 pm - 4:00 pm	Historic Philadelphia Walking Tour (from hotel lobby): Includes the President's House, Liberty Bell, Independence Hall, Betsy Ross House, and Christ Church
4:30 pm - 5:30 pm	NYCAN Core Administrators Meeting Terrace Lounge, off lobby, hotel main floor
5:00 pm - 6:00 pm	Illumina Pre-Conference Get-together Salon rooms 3 and 4

Opening Remarks and Social at the Franklin Institute 222 North 20th Street	
6:30 pm - 8:30 pm	Registration continues at Franklin Institute Explore open exhibits: The Brain, Electricity, and Changing Earth Enjoy drinks and small plates Opening Remarks: Andrew Chitty, Ph.D., Oregon Health and Science University, ABRF President

Daily Program

Thursday, November 7



Breakfast and Registration

7:30 am - 8:30 am	Breakfast in Liberty Ballrooms C and D
	Registration Desk opens at 8:00 am (Foyer outside Ballrooms C and D)

Welcome & Opening Keynote: Liberty Ballroom D

8:30 am - 8:40 am	Welcome Louis J. Soslowsky, Ph.D., Fairhill Professor Orthopaedic Surgery, Associate Dean for Research Integration, Perelman School of Medicine, University of Pennsylvania
8:40 am - 9:40 am	Keynote Lecture Monica Guzman, Ph.D., Weill Cornell Medical College <i>“Tailoring Therapeutic Approaches for Selective Targeting of Leukemia Stem Cells”</i>
9:40 am - 9:55 am	Cytek Biosciences Platinum Plus Plenary
9:55 am - 10:15 am	Morning break with vendors

Morning Concurrent Sessions

10:15 am - 11:30 am	Concurrent Session 1: “Emerging Techniques in Translational Genomics” Freedom Ballroom G This session will focus on two emerging technologies in translational genomics: circulating cell free DNA and microbiome analyses. Kevin Gerrish, Ph.D., National Institute of Environmental Health Sciences Samantha Sevilla Chill, M.S., National Cancer Institute
	Concurrent Session 2: “Trending Topics in Flow Cytometry” Freedom Ballroom F Best practices involving compensation/reference controls (beads vs cells), new software tool for scatter and fluorescence calibration for standardized reporting, and tips for cell sorting when nucleic acids are the actual targets. Kathleen Daniels, SCYM (ASCP), CM Evan Jellison, Ph.D., University of Connecticut Joshua Welsh, Ph.D., National Cancer Institute



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2019

Daily Program

Thursday, November 7

Morning Concurrent Sessions Continued

10:15 am - 11:30 am	<p>Concurrent Session 3: <i>“Bioinformatics: Understanding Complexity in Single Cell Transcriptomics”</i> Freedom Ballroom E Ilya Korsunsky, Ph.D., Harvard University Richard McEachin, Ph.D., Adviaata Bioinformatics David Van Dijk, Ph.D., Yale University</p>
	<p>Concurrent Session 4: <i>“Administration: Websites and Social Media: What works for your core facility?”</i> Freedom Ballroom H Lisa MacDowell, MBA, Children’s Hospital of Philadelphia Susanna Perkins, M.S., University of Massachusetts</p>

Lunch

11:40 am - 1:00 pm	Lunch in Liberty Ballrooms C and D
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Concurrent Sessions: Technology 101’s

Always wanted to learn the basics of another technology but never had time? These 101 sessions are designed to introduce you to the foundations of a technology other than your own area of expertise.

1:00 pm - 2:00 pm	<p>Concurrent Session 1: <i>“Genomics 101”</i> Freedom Ballroom G This session is designed to explain to non-genomics people what happens in the wide variety of genomics core facilities at academic institutions. Roxann Ashworth, M.H.S., Johns Hopkins University Deborah Hollingshead, M.S., University of Pittsburgh</p>
	<p>Concurrent Session 2: <i>“Flow Cytometry 101”</i> Freedom Ballroom F Peter Lopez, Ph.D., New York University Julie Nelson, M.S., University of Georgia</p>

Daily Program
Thursday, November 7



Concurrent Sessions: Technology 101's Cont.d

1:00 pm - 2:00 pm	<p>Concurrent Session 3: <i>“Mass Spectrometry 101”</i> Freedom Ballroom E An overview of mass spectrometry applications and logistics in core facilities Jace Jones, Ph.D., University of Maryland Yan Wang, Ph.D., National Institutes of Health</p>
	<p>Concurrent Session 4: <i>“Imaging 101”</i> Freedom Ballroom H Melina Jaramillo Garcia, McGill University Elke Küster-Schöck, CHU Sainte-Justine/Université de Montréal Andrea Stout, Ph.D., University of Pennsylvania</p>

Concurrent Sessions

2:00 pm - 3:25 pm	<p>Concurrent Session 1: <i>“Genomic Technologies: Best Practices for Core Centers”</i> Freedom Ballroom G Jennifer Holbrook, Nemours Children’s Health System Christian H. Lytle, Dartmouth College Peter Schweitzer, Ph.D., Cornell University Scott Tighe, University of Vermont</p>
	<p>Concurrent Session 2: <i>“Translational Medicine in Flow Cytometry”</i> Freedom Ballroom F Erica Carpenter, Ph.D., University of Pennsylvania Beatriz Carreno, Ph.D., University of Pennsylvania</p>
	<p>Concurrent Session 3: <i>“Image Analysis: Deconvolution “Seeing” through the Blur”</i> Freedom Ballroom E Richard Cole, Ph.D., State University of New York</p>
	<p>Concurrent Session 4: <i>“Core Administration Best Practices: Tools to Resolve Challenges in Core Administration (Business Plans, Advisory Boards, and Costing)”</i> Freedom Ballroom H Mark Drinker, M.S., Wistar Institute Cancer Center Matthew Huesser, M.B.A., Sidney Kimmel Cancer Center at Jefferson Jiju Matthew, MBA, University of Pennsylvania</p>



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Daily Program

Thursday, November 7

3:25 pm - 3:45 pm	Afternoon Break with Vendors
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Keynote Lecture and Plenary Talk in Ballroom D

3:45 pm - 4:45 pm	Keynote Lecture Mark E. Curran, Ph.D., Vice President for Systems Pharmacology and Biomarkers, Janssen Research and Development <i>“Challenges in Pharmaceutical Development: Incorporating Big Data and Personalized Medicine”</i>
4:45 pm - 5:00 pm	Platinum Plus Vendor Plenary 2: New England BioLabs
Poster Session and Vendor Show	
5:00 pm - 6:30 pm	Poster session and Vendor showcase Refreshments and Drinks

Dinner groups / Dinner on your own

10:00 pm	After hours - join us for continued networking at the Hotel 201 Lounge
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Daily Program

Friday, November 8



Breakfast

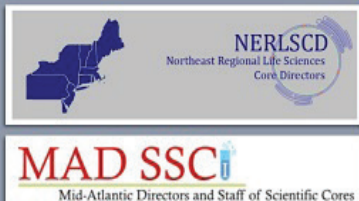
8:00 am - 9:00 am	Breakfast in Ballrooms C and D
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Keynote Lecture & Plenary Talks: Liberty Ballroom D

8:45 am - 9:00 am	<p>Illumina Platinum Plus Plenary “Pairing the DRAGEN™ with the NovaSeq™ 6000 to Overcome Data Analysis Challenges in your Core”</p>
9:00 am - 10:00 am	<p>Keynote Lecture Carl June, MD, University of Pennsylvania Aaron Rappoport, MD, University of Maryland “Translational Medicine across the Mason-Dixon Line”</p>
10:00 am - 10:15 am	Agilent Platinum Plus Plenary
10:15 am - 10:45 am	Morning break and vendor showcase

Morning Concurrent Sessions

10:45 am - 12 noon	<p>Concurrent Session 1: “Integrating Genomics and Flow: DNA+RNA+ Protein = Integrated Molecular Diagnostics” Freedom Ballroom G Joseph M. Breier, Ph.D., NanoString Technologies Reze Nejati, MD, Fox Chase Cancer Center Nina Luning Prak, MD, Ph.D., University of Pennsylvania</p>
	<p>Concurrent Session 2: Mass Spectrometry: Rapid Tissue Imaging, Protein Digestion, Cysteine Adducts Identification Freedom Ballroom F Kristine Glunde, Ph.D., Johns Hopkins University Raghothama Chaerkady, Ph.D., AstraZeneca Joshua Smith, Ph.D., Johns Hopkins University</p>



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Daily Program

Friday, November 8

Concurrent Sessions Continued

10:45 am - 12 noon	<p>Concurrent Session 3: <i>“Microscopy: Enhancing Reproducibility of Microscopy Data Through Quality Control and Data Management”</i> Freedom Ballroom E Michelle Itano, Ph.D., University of North Carolina Chapel Hill Caterina Strambio-De-Castillia, Ph.D., University of Massachusetts Jason Swedlow, Ph.D., University of Dundee Jay Copeland, M.S., Harvard University</p>
	<p>Concurrent Session 4: <i>“Data Management and Analysis Cores and Making Research FAIR Compliant”</i> Freedom Ballroom H Stuart Levine, Ph.D., Massachusetts Institute of Technology Cathy Wu, Ph.D., University of Delaware Practical measures in creating and maintaining Data Management and Analysis Cores, and ensuring data maintains FAIR compliance (Findable, Accessible, Interoperable, and Reproducible). This session will be well suited for Bioinformaticists as well as Administrators and will be of interest to any lab creating ‘omic scale data.</p>

Lunch and Closing Remarks

12 noon - 1:00 pm	Lunch in Liberty Ballrooms C and D
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Core Facility Tours

1:00 pm - 3:15 pm	<p>Bus leaves Hotel 201 at 1:00 pm Tour 1: Cellular Immunotherapies Cores, Smilow Research Building, Penn Clinical Manufacturing Suite including Translational and Correlative Lab supporting Clinical Trials</p> <p>Tour 2: Wistar and Penn Cores Penn: Flow, Electron Microscopy, DNA Sequencing and Human Immunology Wistar: Flow, Genomics and Imaging</p> <p>Bus returns to hotel at 3:15 pm</p>
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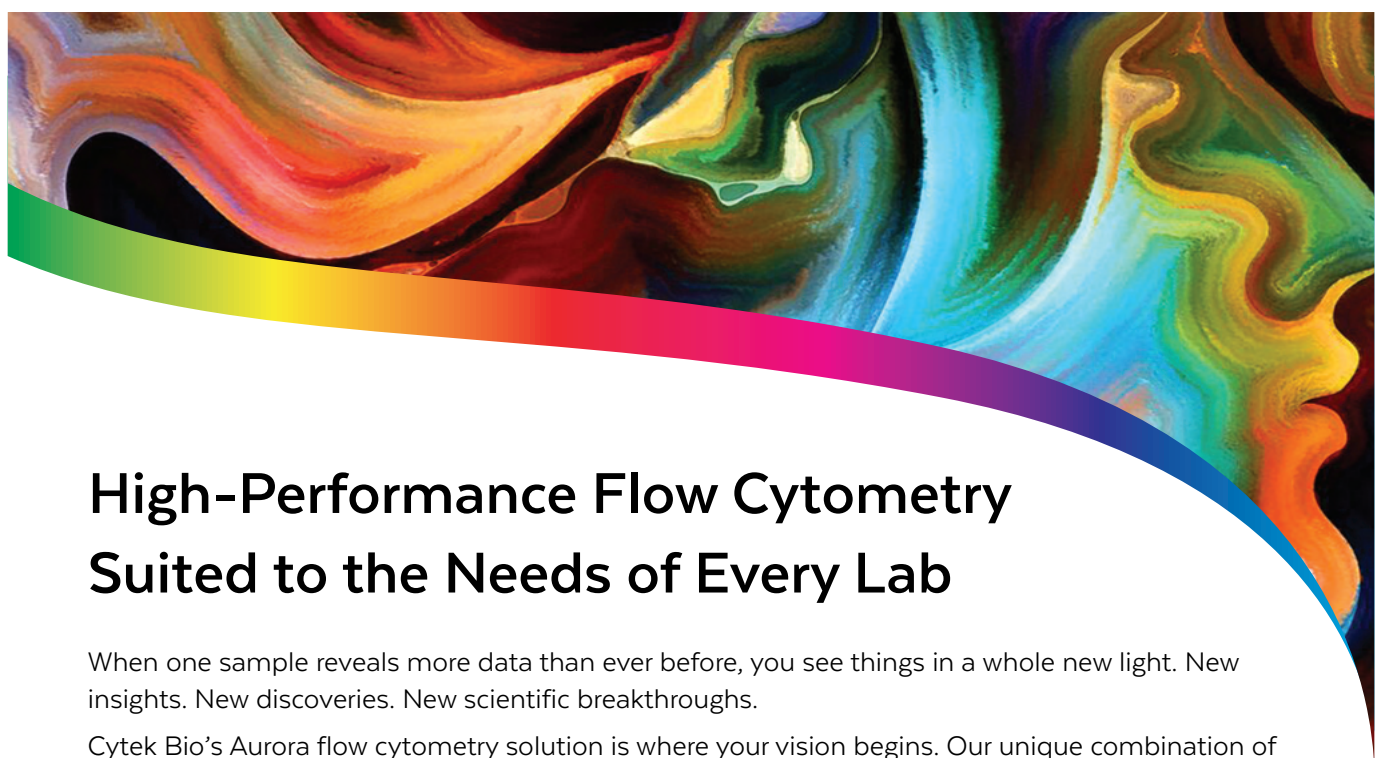
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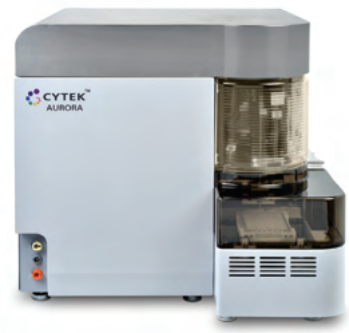
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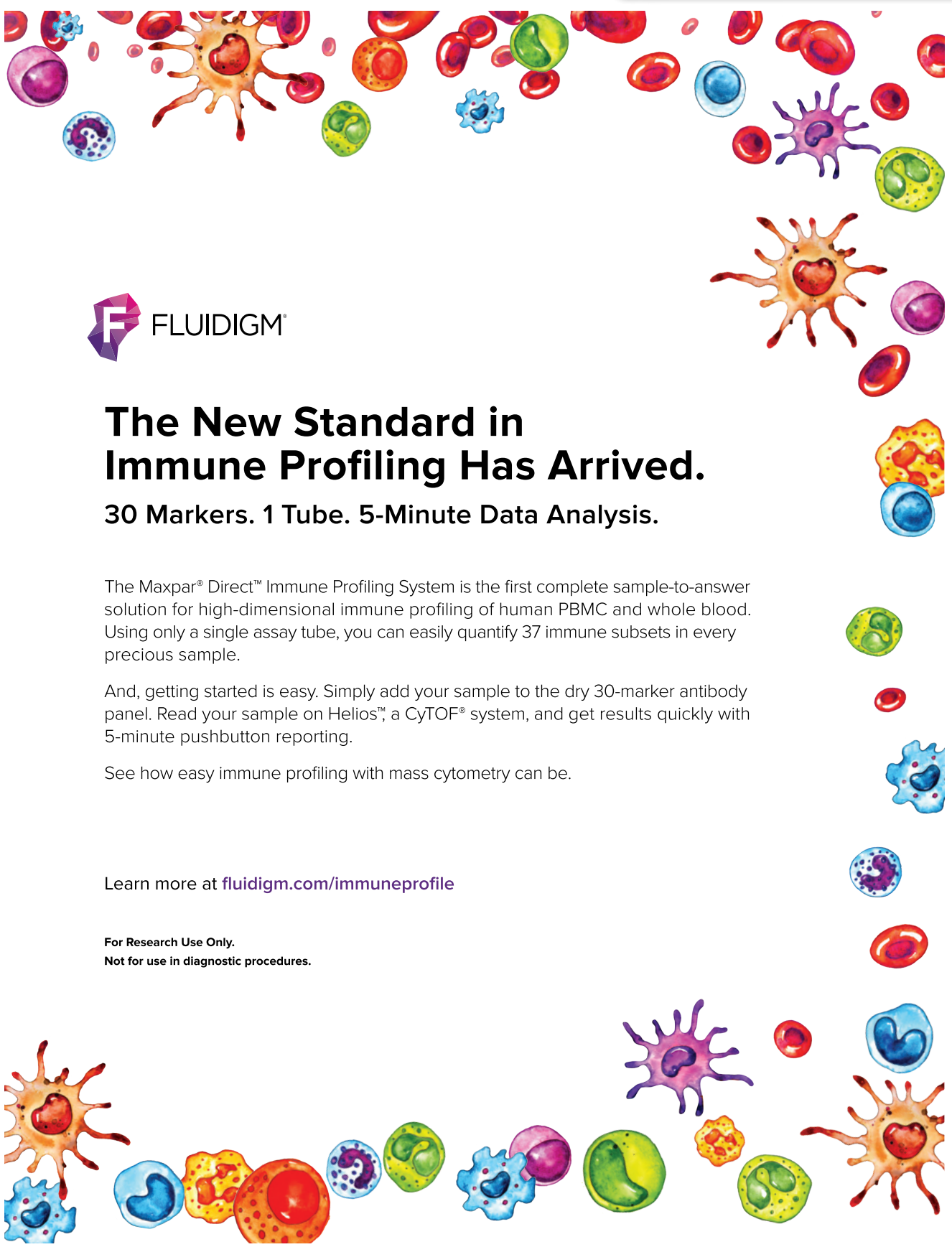
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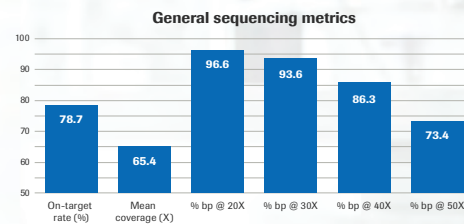
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[†]Compared to SeqCap EZ. [‡]Data on file. [†]Product in Development. Not yet available for sale in the US.
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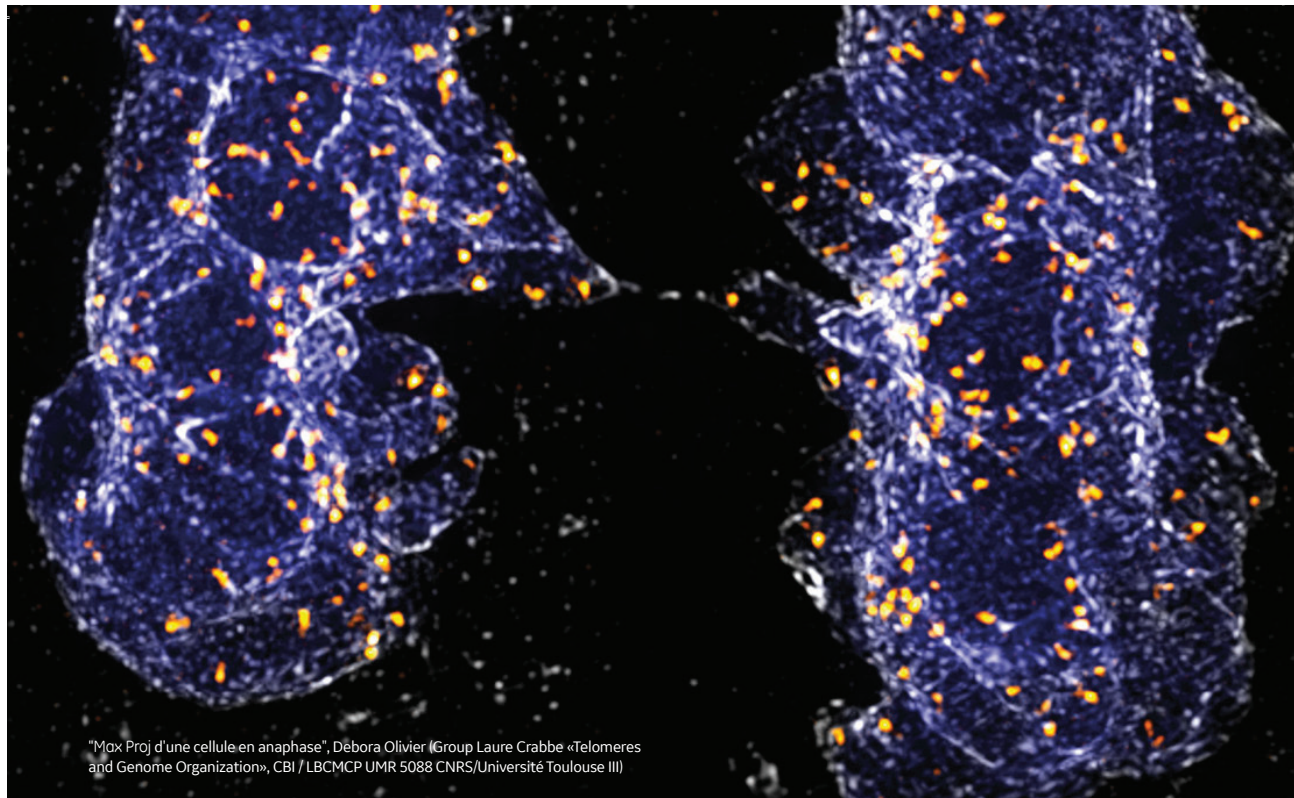
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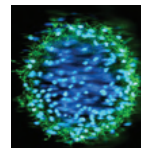
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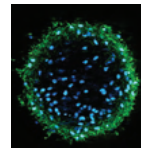
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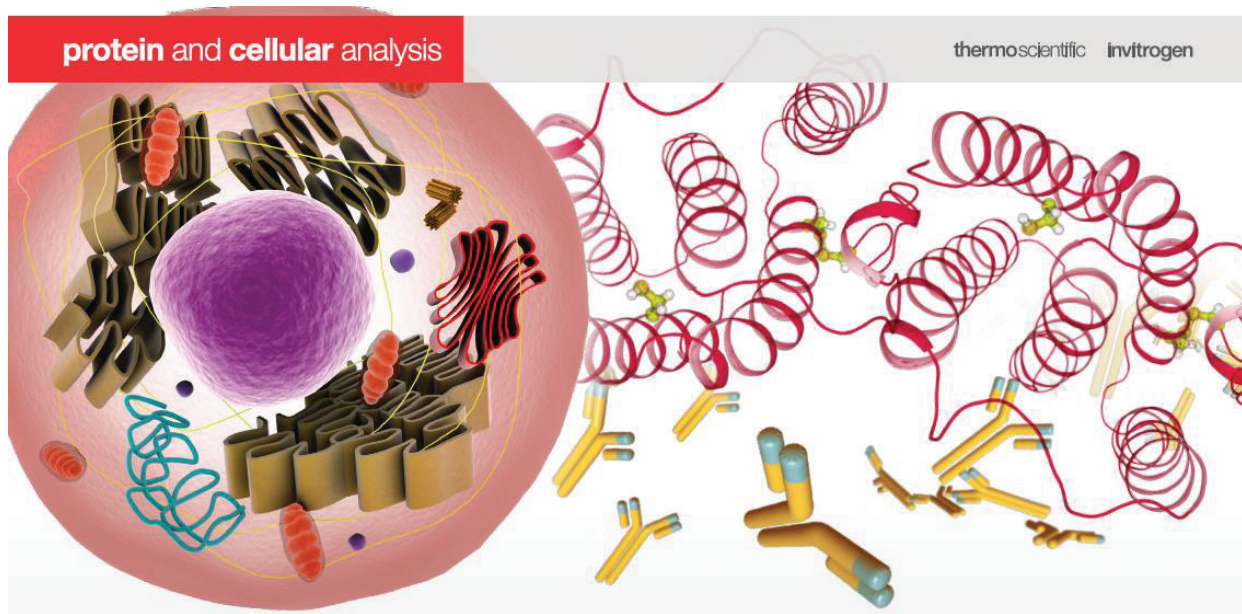
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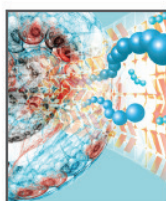


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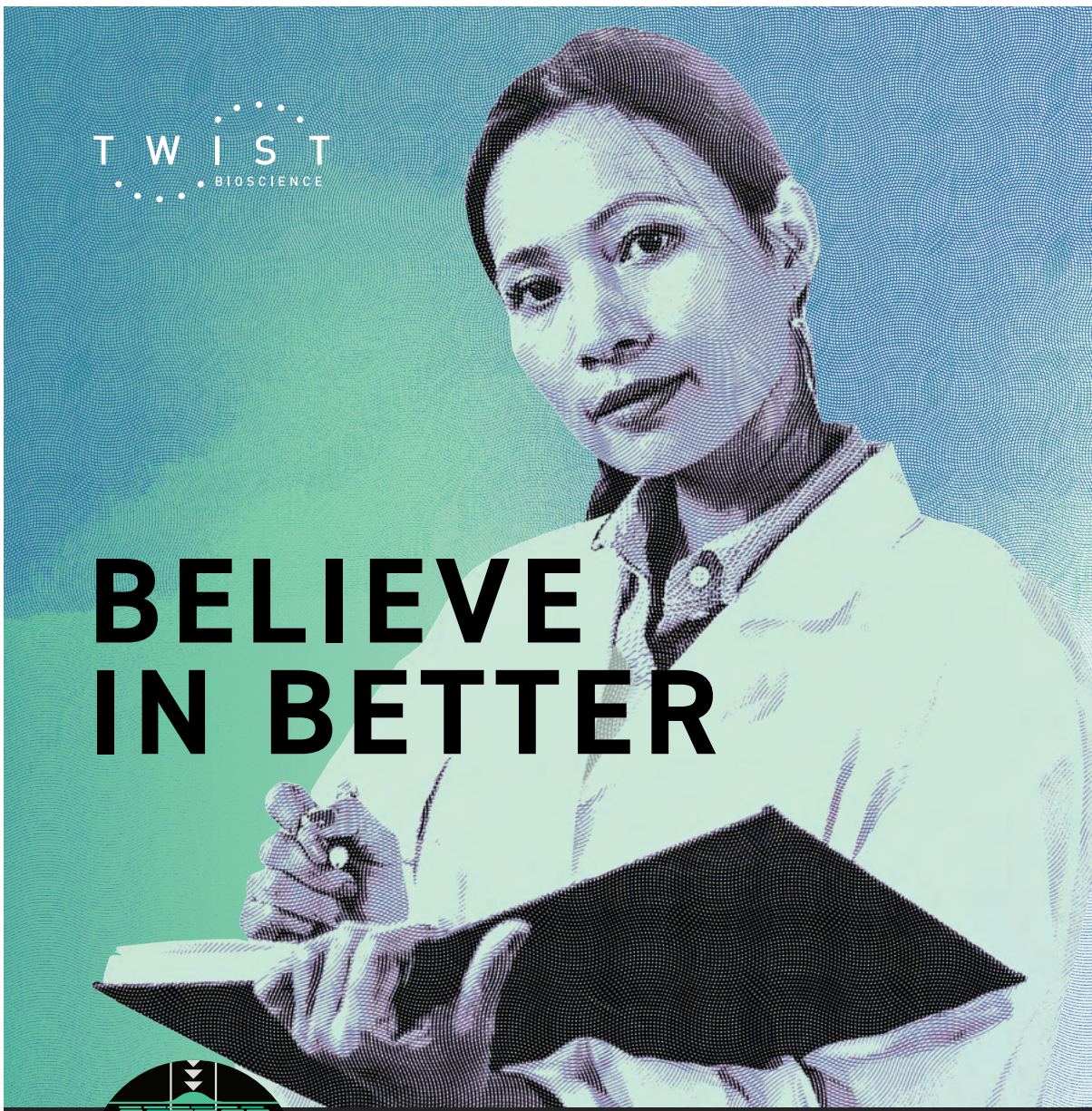


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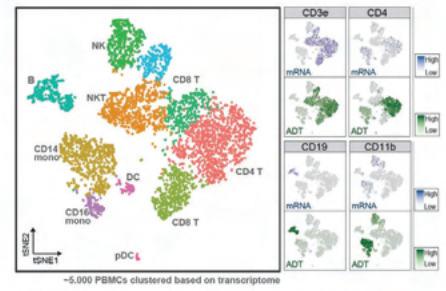
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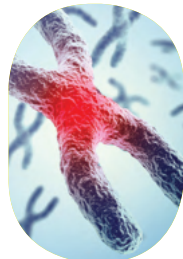


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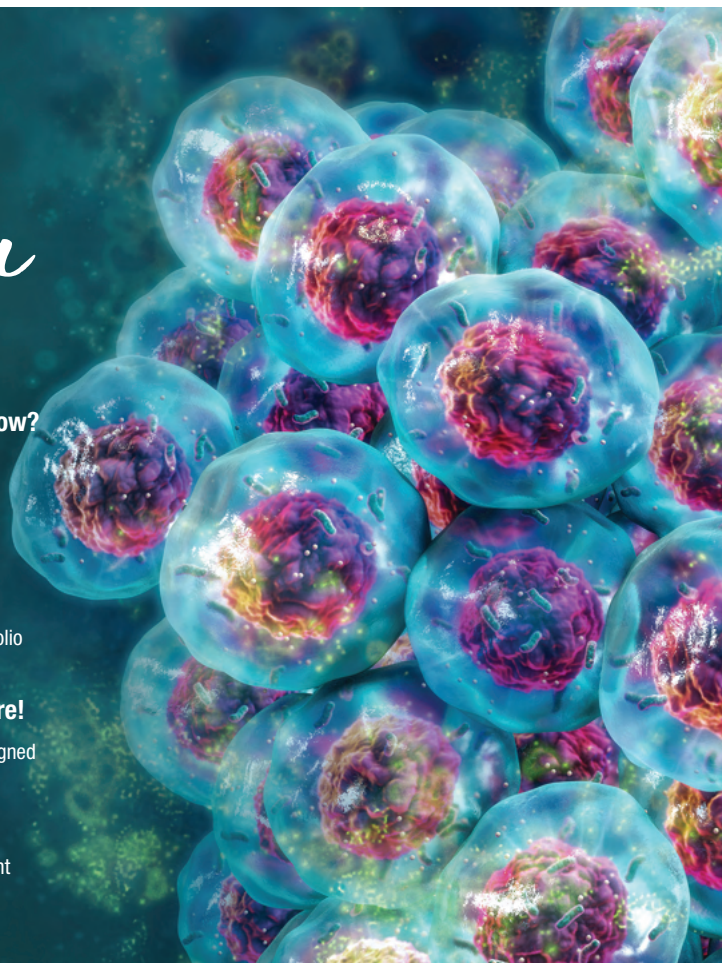
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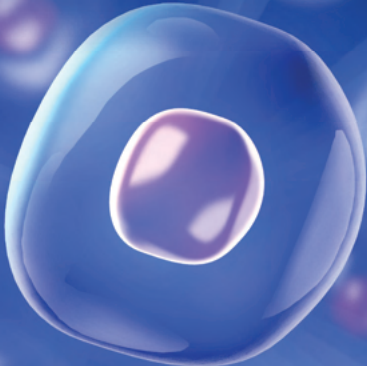
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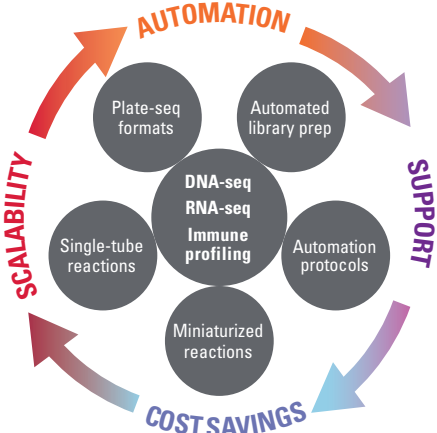
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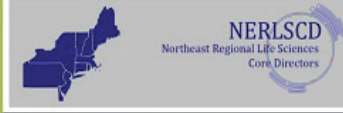
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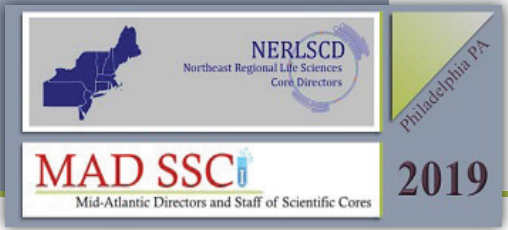
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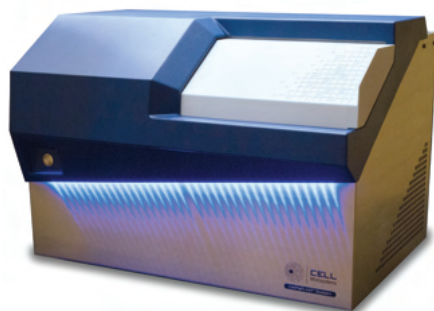
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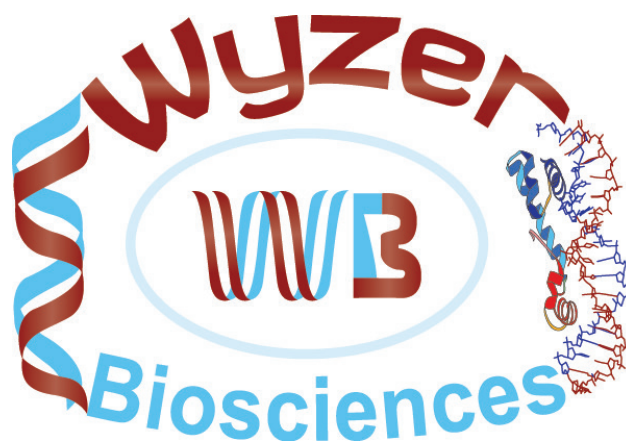


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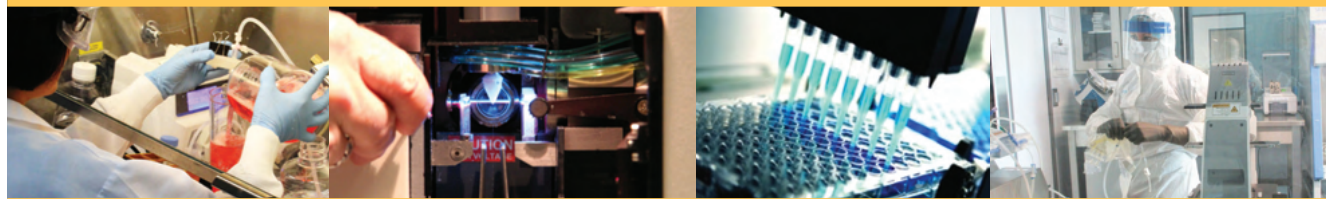
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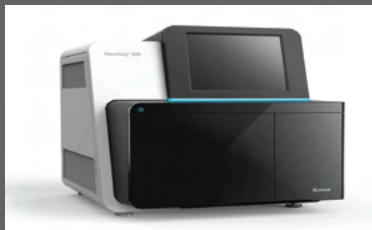


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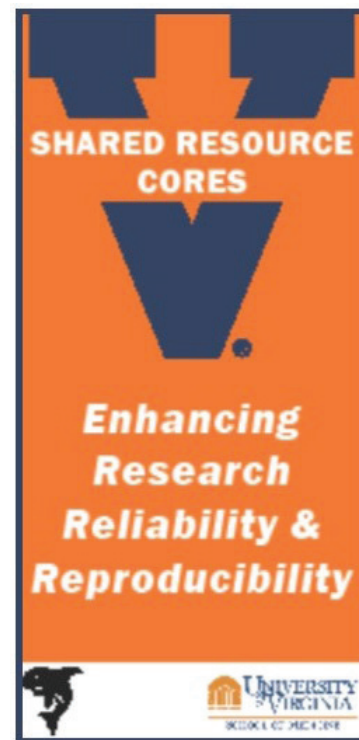
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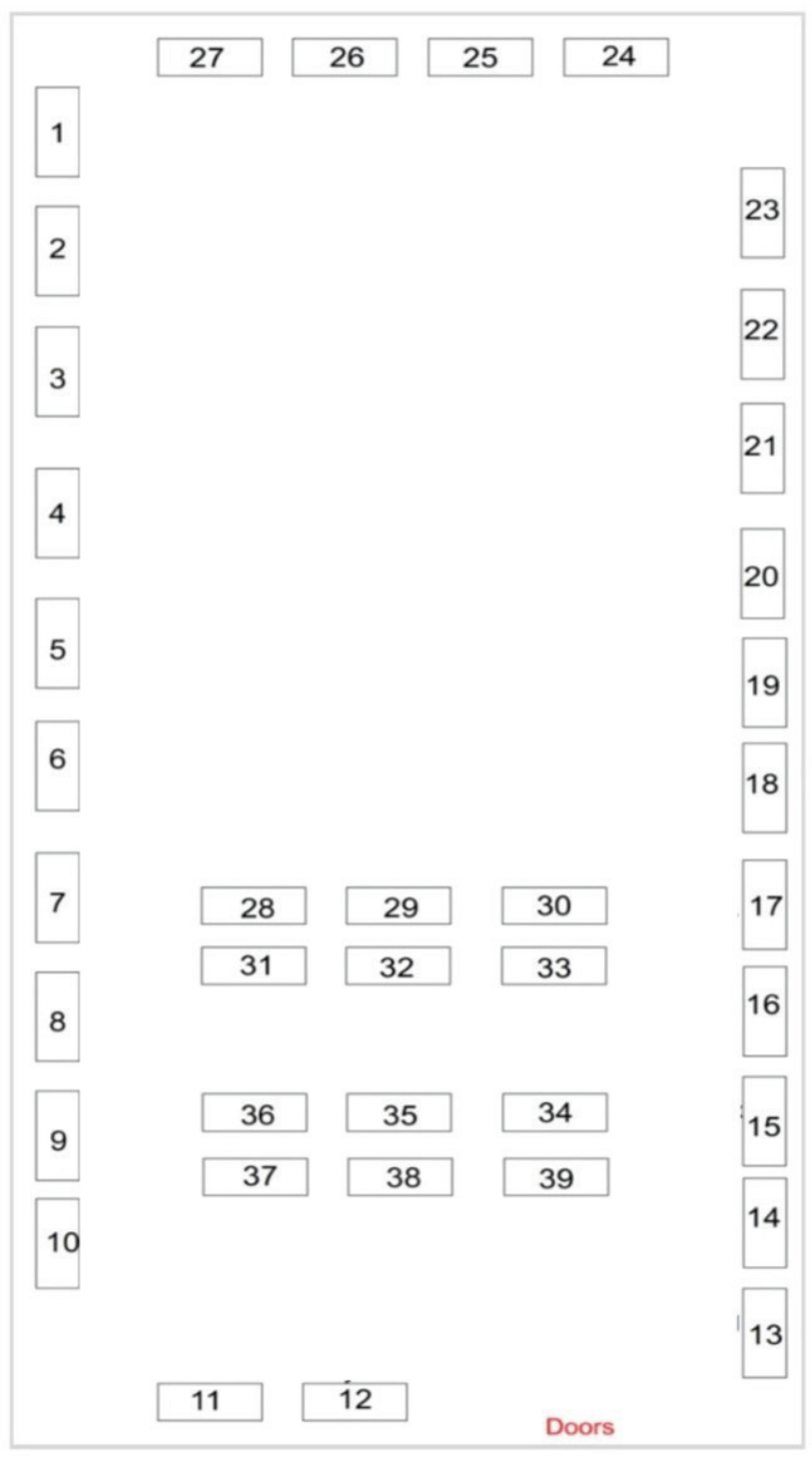
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