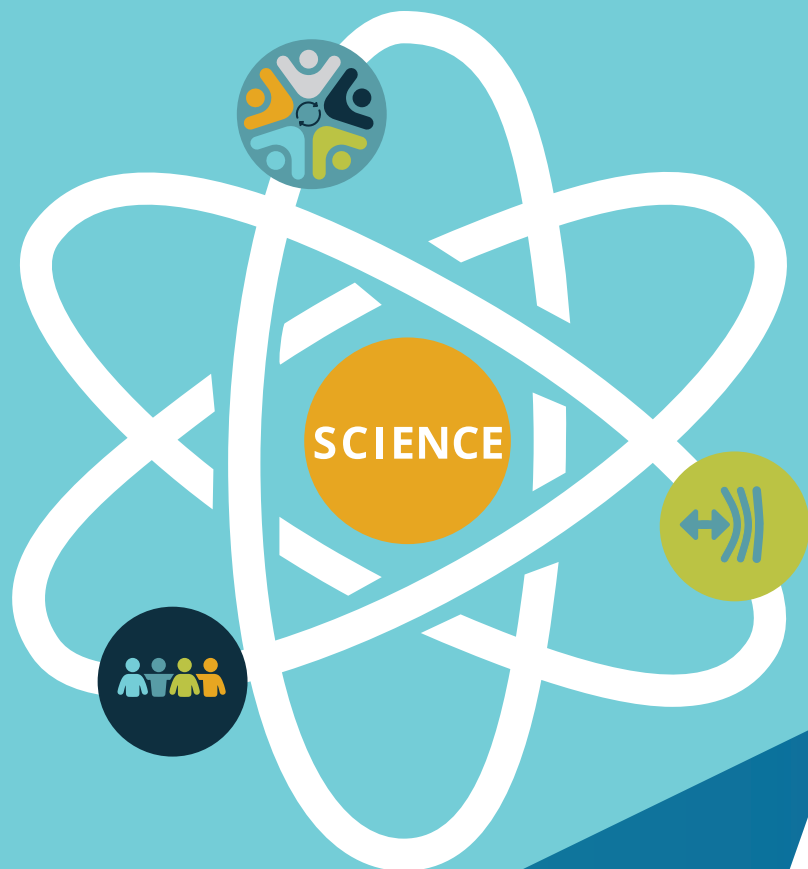




Research • Technology
Communication • Education



ABRF 2022 Annual Meeting

March 27-30

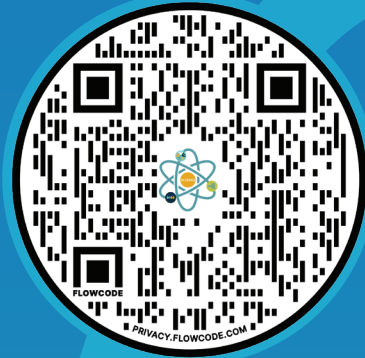
*Celebrating science, community,
synergy, and resiliency*

Palm Springs
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www.abrf.org

View Posters and Flash Talks 24/7
View and Contact Presenter with your Questions

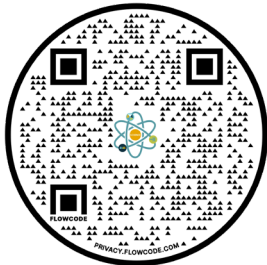


Mobile App

Access for Meeting Details and Networking

Access the app via the app store on your mobile device:

- Search for Cvent Event App
- Find the ABRF 2022 Annual Meeting Event
- Enter your name and email
- Receive a verification code to log in

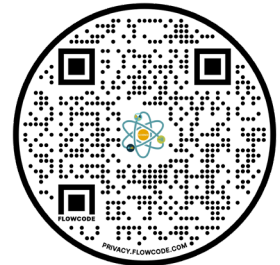


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ABRF Keeps You Connected *Wi-Fi Logins*

Palm Springs Convention Center

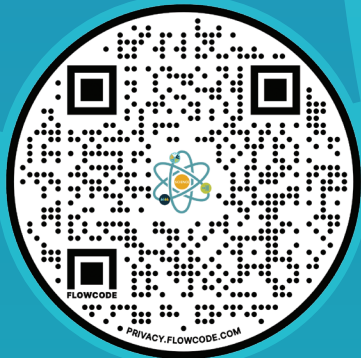
Network: **PalmSpringsCC**

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Renaissance Hotel

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Password: **ABRF2022**



Access the Attendee Hub for
ABRF Annual Meeting Program Information

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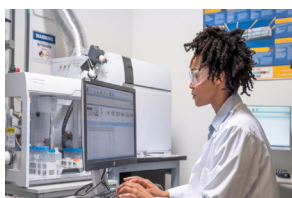
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SLIMS combines the best of a laboratory information management system (LIMS) and an electronic laboratory notebook (ELN) to enable end-to-end solutions that allow you to manage the full content and context of your laboratory.



Cell Analysis

Agilent NovoCyt flow cytometers are built for core facilities, delivering high quality data, an easy to use interface, automated features, and trusted reliability. Powerful acquisition and analysis software, minimal training required, and a faster start to finish for users.



CrossLab

CrossLab iLab core facility management is a web-based enterprise software solution composed of a base software suite and add-on modules and integrations. The software facilitates service request, customer, and project management, as well as billing and invoicing, among other functions.



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Modular automated liquid handling solutions address sample preparation needs for proteins, metabolites, as well as genomics and NGS applications, reducing set up times and protocol development. An intuitive, compliance-enabling software integrates multi-instrument workflows.



Genomics

Agilent offers a broad variety of high-quality workflow solutions for various applications within genomics. Find everything you need to support or expand your laboratory, including sample quality control (QC), next-generation sequencing (NGS) library prep and target enrichment, microarrays, CRISPR, PCR/qPCR, bioreagents, and data analysis solutions including interpretation, and reporting.



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See [Agilent.com](https://www.agilent.com) for regulatory status of products.

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A heartfelt welcome to ABRF 2022!

It's truly a privilege to bring our ABRF family together to celebrate so much: the community we've built in ABRF; the synergies we generate working cooperatively via research groups, committees, task forces, and discussion groups; the resiliency we've all developed during the past two years; and as a result, the collective impact we can make in science.

We're excited to bring you new content in new formats in this, ABRF's first hybrid annual meeting. Whether you are joining us in-person in Palm Springs, or virtually via Zoom, we trust that you'll not only gain a trove of useful knowledge and wisdom but also find opportunities to contribute to the collective experience by connecting with others -- asking and listening, participating in discussions, and sharing your perspectives.

You'll want to get going each morning with the "Eye Opener" sessions -- big picture talks to provide wider perspectives in areas of broad interest. These will be followed by breakout sessions delving into these areas for different segments of our diverse community: from 101-type content to learn about a field other than our own to deeper dives into the nitty-gritty of specific techniques, examining a technology from scientific and administrative points of view, zooming in from international core efforts down to solo-staffed cores, there's content of interest for everyone.

Organized networking events early in the meeting -- speed mentoring and the first-ever ABRF Thunder'ome competition -- will germinate connections to grow over the course of the meeting. Other innovations this year include posters presented as flash talks, a thread focused on diversity, equity and inclusion (DEI), raising the visibility of Research Group presentations, and Tuesday afternoon flex time to pursue your goals for the meeting -- whether it be visiting the exhibit hall, networking around the pool, or resting up to finish strong for the remainder of our time together.

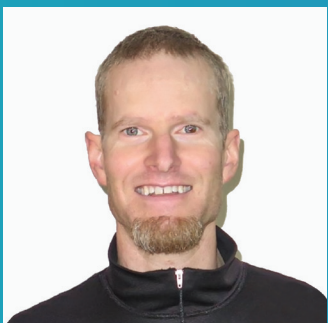
Finally, deepest appreciation to the massive crew involved in putting this program together. Speakers, moderators, session organizers, advisors who helped us organize the organizers, those who contributed ideas and topics early on -- like ABRF, this meeting is the product of countless contributors, a sample of what we can accomplish together. *Let's celebrate!*



Allis Chen, PhD
*Director, Stanford University
Mass Spectrometry (SUMS)
Stanford University*



Marie Adams, MS, MB (ASCP)
*Genomics Core Director
Van Andel Institute*



Ben Abrams, PhD
*Director, UCSC Life Sciences
Microscopy Center
University of California,
Santa Cruz*



Julie A. Auger
*Executive Director
Research Operations
Salk Institute*

Celebrating science, community, synergy, and resiliency

Gain a new perspective on tissue complexity

Explore complex tumor biology with Visium Spatial solutions

Envision cancer biology with multiple analytes

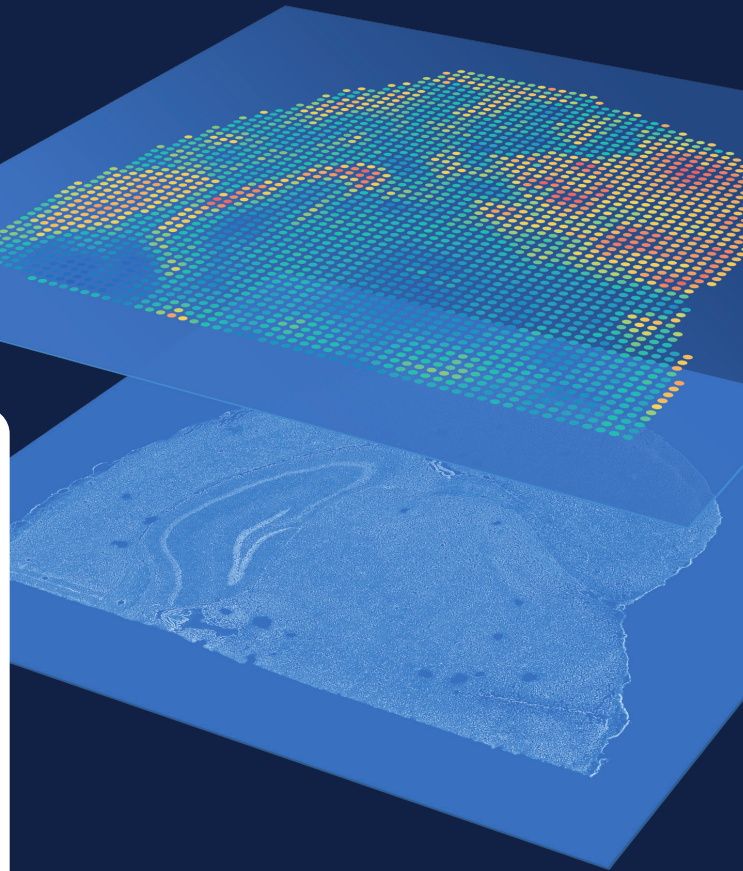
Simultaneously detect protein and whole transcriptome gene expression across entire tissue sections.

Accelerate biomarker and therapeutic target discovery

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Combine histological analysis and spatial gene expression data with easy-to-use software that can focus on any region of interest within a tissue section.



Learn more:

10xgenomics.com/products/spatial-gene-expression

10x
GENOMICS

Sunday March 27, 2022

Workshop Breakfast	7:00-8:00AM
For workshop registrants only	Madera
Pre-Meeting Workshop	8:00AM-4:30PM
LEAN Tools for Enhanced Core Management	Madera
<i>Workshop registrants only</i>	
<i>Sponsored by Coris</i>	
Research Group & Committee Chairs' Meeting	4:00PM-5:00PM
	Santa Rosa
ABRF New Members and First Time Attendees Meeting	4:00PM-5:00PM
	Catalina
Welcome & Keynote Presentation	5:00 PM-6:00PM
AstroPath – When Astronomy Meets Pathology	Primrose B
Tricia Cottrell, Assistant Professor, Queen's University	
Opening Reception	6:00PM-8:00 PM
<i>Sponsored by Meenta</i>	PSCC Lobby

Monday March 28, 2022

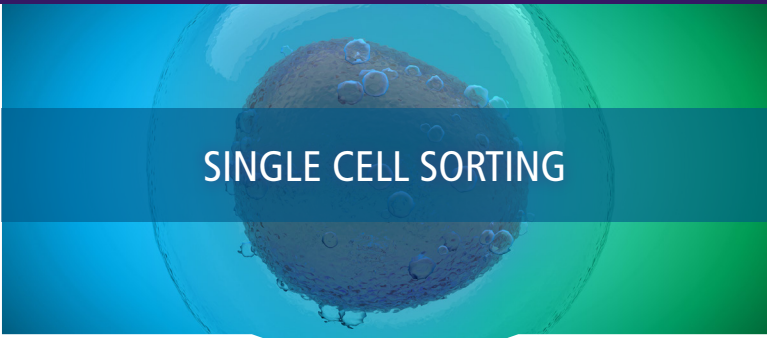
Coffee	7:00AM-8:30AM
	PSCC Lobby
Technology Showcases	7:30AM-8:30AM
Covaris, Leica Microsystems, Purigen Biosystems	Smoketree, Mesquite
<i>For specific locations refer to page 17</i>	
Concurrent Eye Opener Sessions	8:30AM- 9:30AM
Integration of Mass Spec & CryoEM for Protein Structure	Primrose B
<i>Proteomics Research Group (PRG) Presentation</i>	
Spectral Flow Cytometry: The Evolution	Primrose C
of High Parameter Particle Analysis	
Exhibit Hall	9:30AM-5:00PM
	Oasis 1-3
Eye Opener Follow-Ons (Breakout Sessions)	9:30AM-10:45AM
Structural Mass Spectrometry & CryoEM: Practical Essentials	Primrose A
for Successful Experiments	
<i>Proteomics Standards Research Group (sPRG) Presentation</i>	
<i>Sponsor presentation by Covaris, Inc.</i>	
Strategies for Establishing a Successful CryoEM Core	Primrose B
A Tale of Two Cytometry Platforms: How to Translate	Primrose C
Your Skills to Produce Stand-Out Spectral Data	
<i>Flow Cytometry Research Group (FCRG) Presentation</i>	
<i>Sponsor presentation by Becton Dickinson</i>	
Cloud Computing and Data Management in Cores	Primrose D
<i>Sponsor presentation by Veranome Biosystems</i>	

Notes

IMPROVE YOUR PRODUCTIVITY WITH OPTIMIZED NGS WORKFLOWS



SAMPLE HOMOGENIZATION
& DNA/RNA EXTRACTION



SINGLE CELL SORTING



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With our optimized sample homogenization, nucleic acid extraction, single cell sorting, library preparation kits and barcodes, automation, QC solutions, and technical expertise, you have an ally who understands your underlying science. PerkinElmer provides solutions that address the full breadth of your scientific requirements-all from a single-source and delivers the application support you need to improve your productivity.

Keeping Cores Relevant & Competitive

**James Atwood, PhD, General Manager,
Applied Genomics, PerkinElmer**

March 29th

8:30 am

Primrose B

Stop by booth # 200 to Learn How to Optimize Your NGS Workflows

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For the Better

Coffee Break and Exhibits	10:45AM-11:00AM Oasis 1-3
ABRF Award Presentation	11:00AM-12:00PM Primrose B
Emerging Imaging Technologies to Study Cell Architecture, Dynamics and Function Jennifer Lippincott-Schwartz, Senior Group Leader, HHMI Janelia Research Campus <i>Sponsor presentation by E&I</i>	
Lunch and Exhibits	12:00PM-1:00PM Oasis 1-3
ABRF ATE Working Group Lunch	12:00PM-1:00PM Primrose C
<i>Boxed lunch provided</i>	
Innovation Theater	12:00PM-1:00PM Oasis 1-3
Refeyn, Advanced Cell Diagnostics, 10x Genomics, LUMICKS <i>For specific schedule refer to page 17</i>	
Parallel Sessions	1:00PM-2:00PM
Administration Hot Topics <i>Sponsor presentation by Stratocore</i>	Primrose A
Communicating Statistics for Non-statisticians <i>Genomics Bioinformatics Research Group (GBIRG) Presentation</i>	Primrose B
Extracellular Vesicles 'Omics <i>Metabolomics Research Group (MRG) Presentation</i>	Primrose C
Poster Flash Talks: Flow & Imaging <i>Sponsor presentation by MaxCyte</i>	Primrose D
Sustainability Impact Plenary Session	2:00PM-3:00PM Primrose B
Building a Culture of Sustainability in Science James Connelly, CEO, My Green Lab <i>Sponsor presentation by New England Biolabs</i>	
Parallel Sessions	3:00PM-4:00PM
Life in a Small Core: Communication at the Core-Administration Interface <i>Sponsor presentation by Specialty Underwriters</i>	Primrose A
Poster Flash Talks: Genomics & Bioinformatics <i>Sponsor presentation by Bio-Rad Laboratories</i>	Primrose B
Taking the First Step of Performing Powerful 'Omics-based Studies <i>Sponsor presentation by Omega Bio-tek</i>	Primrose C
Non-linear Optics (NLO) – What you Always Wanted to Know But Were Afraid to Ask <i>Sponsor presentation by Aberrior Instruments America</i>	Primrose D
Coffee Break and Exhibits	4:00PM-4:30PM Oasis 1-3

Notes

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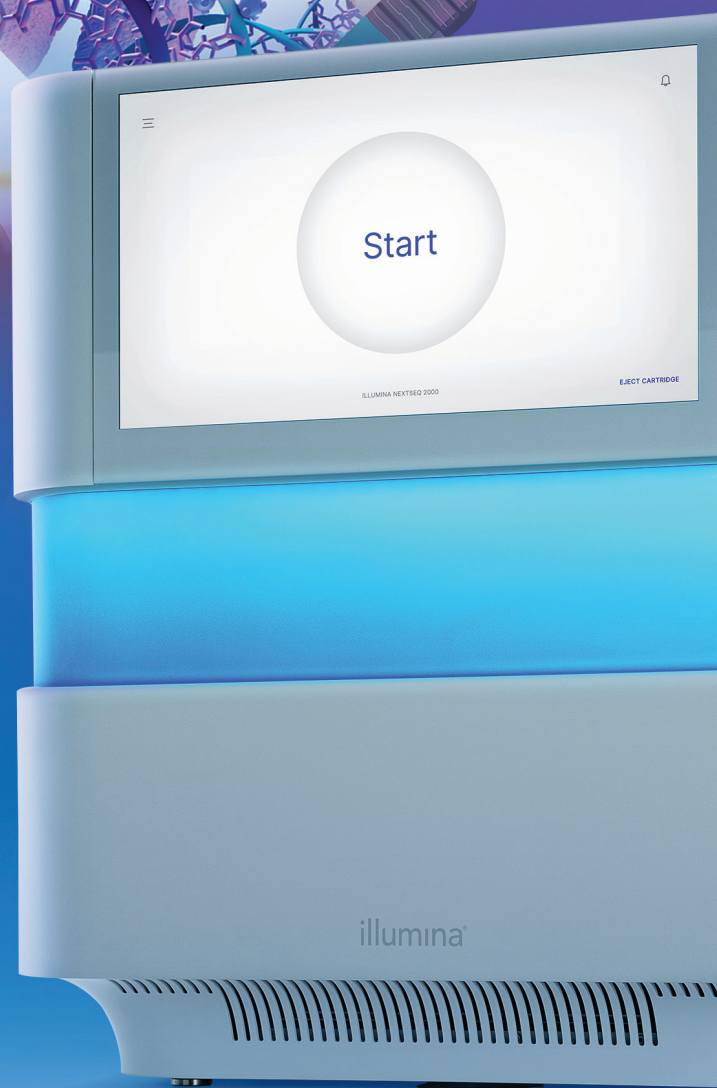
More capacity More flexibility More to discover

The NextSeq™ 1000 and 2000 enable 3x the sequencing capacity at 1/2 the cost*, making them the ideal platforms for helping you do more with multiomics.

*compared with the NextSeq™ 500/550 platforms.



See it for yourself.
illumina.com/nextseq2000



Career Development: Network Like a Pro – Speed Mentoring	4:30PM-6:00PM
<i>Sponsor presentation by Miltenyi Biotec</i>	Primrose C
Thunder'ome: ABRF Edition	4:30PM-6:00PM
Research Group & Committee Networking Activity	Primrose A
<i>Genome Editing Research Group (GERG) Presentation</i>	
<i>Beer and prizes sponsored by NanoString Technologies</i>	
Technology Showcases	6:00PM-7:00PM
CS Genetics, NanoString Technologies,	Smoketree, Mesquite
Watchmaker Genomics	
<i>For specific locations refer to page 17</i>	

Tuesday, March 29, 2022

Coffee	7:00AM-8:30AM
	PSCC Lobby
Technology Showcases	7:30AM-8:30AM
DNA Script, Inscripta, Newomics, PacBio	Smoketree, Mesquite
<i>For specific locations refer to page 17</i>	
Concurrent Eye-Opener Sessions	8:30AM-9:30AM
Learning Cellular State and Trajectories under Perturbations	Primrose A
<i>Sponsor presentation by Illumina</i>	
FASEB: Team Science and Shared Research Resources Taskforce	Primrose B
<i>Sponsor presentation by PerkinElmer</i>	
Exhibit Hall	9:30AM-5:00PM
	Oasis 1-3
Eye Opener Follow-Ons (Breakout Sessions)	9:30AM-10:45AM
FASEB Shared Research Resource Taskforce Roundtable	Primrose A
<i>Sponsor presentation by Universal Sequencing Technology</i>	
Single-Cell Analysis 101: Current Approaches and Open Questions	Primrose B
<i>Sponsor presentation by Takara Bio</i>	
Discussion: Learning Cellular State and Trajectories under Perturbations	Primrose C
<i>Sponsor presentation by Olink</i>	
Coffee Break and Exhibits	10:45AM-11:00AM
	Oasis 1-3
ABRF Diversity, Equity and Inclusion Award Presentation	11:00AM-12:00PM
Presented by: ABRF DEI Council	Primrose B
<i>Sponsor Presentation: E&I</i>	
Lunch and Exhibits	12:00PM-1:00PM
	Oasis 1-3

Notes

Robust and Reproducible Results with truXTRAC® FFPE Total NA Auto 96 Kit

Enabled by Adaptive Focused Acoustics® (AFA®) Technology

Improved



Automated



AFA and FFPE: Addressing Challenges with Ease and Confidence

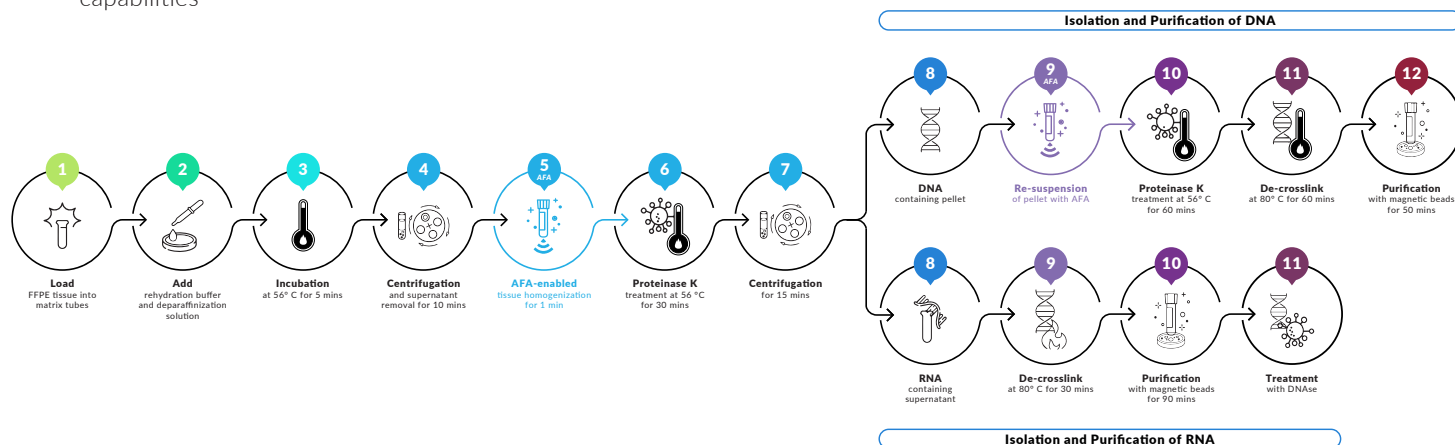
- **Active Deparaffinization:** reliable, reproducible, and higher recovery of DNA and RNA
- **NO NEED for Xylene or Hexadecane:** eliminate the use of organic solvents, laborious manual processing, fume hood requirements, and carryover contamination issues
- **Maximizing Analyte Yield:** robust workflow ensures higher analytical yield
- **Scalable Solutions to Meet Your Labs Need:** from one to hundreds of samples a day, allowing the ability to analyze every sample

When it comes to FFPE Samples, AFA Ensures:

- Complete emulsification (with lysis buffer) of paraffin in FFPE samples
- Better tissue rehydration
- Improved de-crosslinking of DNA from proteins (with Protein Kinase)
- High yield of RNA from supernatant
- Reduced protein kinase incubation
- Enhanced resuspension and yield for DNA pellets

A Robust Workflow for FFPE Samples

- Robust, reliable assays – every time, every user, every lab
- Address throughput requirements with automation capabilities
- High yield and quality of DNA/RNA from the same assay
- Options to switch to manual, if needed



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Stay Connected!

Innovation Theater	12:00PM-1:00PM
Luminex, Cell Microsystems, Mission Bio, Akoya Biosciences	Oasis 1-3
<i>For specific schedule refer to page 17</i>	
Parallel Sessions	1:00PM-2:00PM
Poster Flash Talks: Administration/Management/Education	Primrose A
<i>Sponsor presentation by Cytek Biosciences</i>	
Implementing Spatial Transcriptomics in a Core Setting	Primrose B
<i>Sponsor presentation by Roche</i>	
Multiomics Data Integration	Primrose C
<i>Proteome Informatics Research Group (iPRG) Presentation</i>	
<i>Sponsor presentation by Inscripta</i>	
3D Organoid Models in Basic and Clinical Research	Primrose D
Concurrent Plenary Sessions	2:00PM-3:00PM
Taking your Core to the Next Level with Spatial and Single Cell Innovations	Primrose A
<i>Sponsor presentation by 10x Genomics</i>	
Inclusion Is a Core Value in Pursuit of Scientific Excellence	Primrose B
Flex Time	3:00PM-6:00PM
Be sure to visit the Exhibit Hall!	
Technology Showcases	6:00PM-7:00PM
Element Biosciences, Lexogen, Miltenyi Biotec, QIAGEN	Smoketree, Mesquite
<i>For specific locations refer to page 17</i>	
Evening Workshop	7:00PM-8:30PM
Coordinating Communication Styles	Primrose A
 Wednesday, March 30, 2022	
Coffee	7:00AM-8:30AM
Technology Showcases	7:30AM-8:30AM
Jumpcode Genomics, Olink, Tecan	Smoketree, Mesquite
<i>For specific locations refer to page 17</i>	
Eye Opener Sessions	8:30AM-9:30AM
Catalyzing Partnerships with Cores in Africa	Primrose A
<i>Sponsor presentation by Parse Biosciences</i>	
The First Complete Human Reference Genome: Exploring New Genome Biology and Function	Primrose B
<i>Sponsor presentation by Agilent</i>	
Exhibits	9:30AM-2:00PM
	Oasis 1-3

Notes

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Eye Opener Follow-Ons (Breakout Sessions)	9:30AM-10:45AM
Developing an Action Plan with Cores in Africa <i>DNA Sequencing Research Group (DSRG) Presentation</i>	Primrose A
Intro to Long Read Sequencing for Non-Genomicists <i>Sponsor presentation by DNA Script</i>	Primrose B
Long Reads and Advanced Algorithms for Cancer Research <i>Sponsor presentation by PacBio</i>	Primrose C
Caveats and Best Practices for Study Design and Data Analysis in High-Dimensional Flow Cytometry <i>Sponsor presentation by Beckman Coulter</i>	Primrose D
Coffee Break and Exhibits	10:45AM-11:00AM Oasis 1-3
Parallel Sessions	11:00AM-12:00PM
Automating Core Management Tasks Using Microsoft Office 365	Primrose A
Microbiome Metagenomics <i>Sponsor presentation by Tecan</i>	Primrose B
Poster Flash Talks: Mass Spectrometry & Proteomics <i>Sponsor presentation by SomaLogic</i>	Primrose C
Image Management and Curation with OMERO and iRODS <i>Light Microscopy Research Group (LMRG) Presentation</i>	Primrose D
Lunch and Exhibits	12:00PM-1:00PM Oasis 1-3
Innovation Theater 10x Genomics, Lunaphore, Wiley <i>For specific schedule refer to page 17</i>	12:00PM-1:00PM Oasis 1-3
DEI Lunch Discussion Boxed lunch provided	12:00PM-1:00PM Primrose A
Parallel Sessions	1:00PM-2:00 PM
Foreign Influence in Research Shared (Core) Facilities: Managing and Mitigating Strategies	Primrose A
Poster Flash Talks: Genomics II <i>Sponsor presentation by Akoya Biosciences</i>	Primrose B
Mass Spec Wrap-up: Roundtable Discussions <i>Workflow Interest Network (WIN) Presentation</i>	Primrose C
Open Source Tools for Image Processing and Analysis from the Allen Institute for Cell Science <i>Sponsor presentation by Chroma Technology</i>	Primrose D
Plenary Session Harnessing Tacit Technical Knowledge: How Supporting Scientific Technical Careers Benefits the Whole Laboratory Jane Srivastava, Flow Cytometry Core Director, J. David Gladstone Institutes	2:00pm-3:00pm Primrose B

Notes

PacBio

INTERACT WITH US AT ABRF

PACBIO TECHNOLOGY SHOWCASE

March 29, 7:30–8:30 am

EYE-OPENER SESSION

March 30, 9:30–10:45 am

Come see a whole new
PacBio at **booth 305** and
enter for your chance to
WIN FREE SEQUENCING

Official rules apply



Break	3:00PM-3:15PM Oasis 1-3
Poster Awards	3:15PM-4:15PM Primrose B
<i>Sponsored by Waters</i>	
Closing Keynote	4:15PM-5:15PM Primrose B
Analysis of Critical Wine Components	
Andrew Waterhouse, Professor of Enology, University of California, Davis	
<i>Sponsor presentation by Qiagen</i>	
ABRF Members' Reception	5:15PM-5:45PM Primrose B
ABRF Members' Meeting	5:45PM-7:15PM Primrose B
Outstanding Scientist Scholarships	
<i>Presented by: Universal Sequencing Technology</i>	
Founder's Award donated by Ron Niece	
Closing Reception	7:15PM-9:00PM Renaissance Pool
"After Party"	9:00PM-11:00PM Madera/Pasadena
Dancing and Bar	

Notes

The Innovation Theater

Oasis Theater

Don't miss these special presentations on the latest in technology products and solutions.

Monday, March 28

Refeyn	12:00-12:10PM
Advanced Cell Diagnostics, Inc.	12:15-12:25PM
10x Genomics	12:30-12:40PM
LUMICKS	12:45-12:55PM

Tuesday, March 29

Luminex	12:00-12:10PM
Cell Microsystems	12:15-12:25PM
Mission Bio	12:30-12:40PM
Akoya Biosciences	12:45-12:55PM

Wednesday, March 30

10x Genomics	12:00-12:10PM
Lunaphore	12:15-12:25PM
Lunaphore	12:30-12:40PM
Wiley	12:45-12:55PM

Technology Showcases

Showcasing new products and providing in-depth technical demonstrations and product updates. Most showcases include food and beverages.

Monday, March 28

7:30-8:30AM

Covaris	Smoketree AB
Leica Microsystems	Smoketree C
Purigen Biosystems	Smoketree ED

6:00-7:00PM

CS Genetics	Mesquite DE
NanoString Technologies	Smoketree ED
Watchmaker Genomics	Smoketree C

Tuesday, March 29

7:30-8:30AM

DNA Script	Smoketree AB
Inscripta	Smoketree ED
Newomics	Mesquite DE
PacBio	Smoketree C

6:00-7:00PM

Element Biosciences	Smoketree ED
Lexogen	Mesquite DE
Miltenyi Biotec	Smoketree C
QIAGEN	Smoketree AB

Wednesday, March 30

7:30-8:30AM

Jumpcode Genomics	Smoketree C
Olink	Smoketree AB
Tecan	Smoketree ED

Keynote Speakers



Dr. Tricia Cottrell

Dr. Tricia Cottrell is a clinician scientist whose research focuses on tumour-immune interactions in solid tumours, and the identification of predictive and prognostic biomarkers in pre-treatment and post-treatment tumour tissues. Cottrell completed her MD, PhD, Anatomic Pathology Residency, and post-doctoral training at the Johns Hopkins University School of Medicine and is now an Assistant Professor in the Department of Pathology and Molecular Medicine at Queen's University in Kingston, Ontario, Canada.

One of Dr. Cottrell's key research contributions was the first characterization of the features of immune-mediated tumour regression following neoadjuvant anti-PD-1 therapy in non-small cell lung carcinoma (NSCLC). This published clinical trial was used to develop a set of proposed immune-related pathologic response criteria for the standardized and reproducible assessment of pathologic response following neoadjuvant immunotherapy. These criteria are now being evaluated in a large clinical trial of neoadjuvant anti-PD-1 therapy in NSCLC. These findings have also been extended to other tumor types and efforts to develop a pan-cancer method for quantifying pathologic response are underway.



Dr. Andrew Waterhouse

Andrew L. Waterhouse is a third generation Californian, but moved frequently while growing up, including some years abroad, living in Thailand, Ghana and Iran before attending university. He received his bachelor's in chemistry from the University of Notre Dame in 1977. Having completed his Ph.D. and a postdoctoral research appointment at UC Berkeley, he joined the chemistry department at Tulane University in 1986.

In 1991, he moved to the Department of Viticulture and Enology at UC Davis where his research program has delved into various aspects of phenolics. These naturally occurring compounds, present in grape skins and seeds and extracted from oak barrels, account for several aspects of flavor and bouquet, as well as antioxidant activity, which helps wines age and may reduce chronic disease in wine drinkers. Current studies focus on several aspects of wine oxidation chemistry, closure performance and the absorption and metabolism of proanthocyanidins. His graduate students and post-docs are winemakers, researchers and professors across California and elsewhere around the globe.

He is a Professor of Enology and has previously held the John E. Kinsella Chair in Food, Nutrition and Health, and the Marvin Sands Endowed Chair. He has won the Medical Friends of Wine Research Award, a UC Davis Chancellor's Fellow award, holds an honorary doctorate from the University of Bordeaux, and he has been named one of the most highly cited researchers in agriculture by ISI. He teaches a course on the chemical analysis of wine, as well as a graduate course entitled "Natural Products of Wine." He also has an appointment at the University of Auckland as Honorary Professor.

In addition to his research and teaching, Professor Waterhouse is the Co-Editor in Chief of the Journal of the Science of Food and Agriculture, and has chaired numerous national and international symposia and participates in such professional organizations as the American Society for Enology and Viticulture and the American Chemical Society. At UC Davis he has served as Chair of the Department of Viticulture and Enology, Chair of Graduate Council and in other roles.

Plenary Speakers



James Connelly

One of the most influential leaders in the corporate sustainability and green building movement today, James Connelly is the Chief Executive Officer of My Green Lab. James is a frequent keynote speaker on regenerative design, sustainable business and laboratory sustainability. He is an avid writer and his research and commentary has been featured in news outlets such as China Dialogue, CGTN TV, Engineering News Record, Building Green, Trim Tab, Sustainable Brands, and GreenBiz.

Prior to joining My Green Lab James was the Vice President of Strategic Growth for the International Living Future Institute, where he led international growth strategy and became a founding board member of Living Future Institute Europe. During this time, James managed strategic sustainability consulting with some of the world's most progressive companies and Institutions, including Google, Microsoft, Salesforce, Cleveland Clinic, the Lawrence Berkeley National Lab and Harvard University.

During his time at ILFI, James helped create a number of leading-edge sustainability programs including Declare, an innovative ingredient transparency label for non-toxic building products, Living Product Challenge, the world's most advanced sustainability standard for building products, Just, a social equity label for organizations, and Zero Carbon Building Certification.

James has won numerous scholarships and awards for his research and work; notably he received a 2012 Fulbright Fellowship to research on green building rating systems in China, was selected as a Greenbiz 30 under 30 Sustainable Business Leader in 2016, and a Net Zero Energy Trailblazer in 2019.

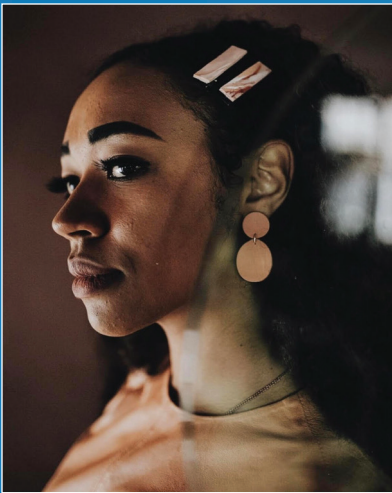


Jane Srivastava

Originally from Christchurch, New Zealand, Jane Srivastava (she/her) completed her undergraduate studies in plant and microbial biology at the University of Canterbury. She worked as a lab technician before discovering flow cytometry in 2003 and has been in the industry ever since, working as a flow lab manager at Imperial College London and designing practical and theoretical flow courses for undergraduate and postgraduate students. Srivastava is now director of the Flow Cytometry Core at the Gladstone Institutes and has been a mentor for Gladstone's PUMAS (Promoting Underrepresented Minority Advancement in the Sciences) summer internship program.

Having faced discrimination in her career due to her gender, Srivastava actively supports other women in science and is a member of the Gladstone Women's Initiative Group. She is also involved with the research associate and technologist community. Following her undergraduate studies, Srivastava worked as a lab technician for a couple years before being introduced to flow cytometry. While she had opportunities to go back to graduate school, she considers herself a much better technician. As a career technician, Srivastava is passionate about bringing recognition and support to those working in a scientific technical career.

Outside the lab, Srivastava spends time with her kids, exercises, and listens to a lot of music -- anything from heavy metal to classical. She also plays a pretty mean game of cards and is known for her great poker face.



ABRF Diversity, Equity and Inclusion Award

Awarded to 500 Women Scientists

Emily Pinckney
Executive Director, 500 Women Scientists

Emily Pinckney grew up along the Salish Sea. She knew since she was three years old that she loved the ocean and at 10 years old, decided to go to university for Marine Biology.

Emily Pinckney attended Humboldt State University and Duke University and graduated with a degree in Marine Biology and Conservation, and a minor degree in Wildlife Management. In her academic career, she has done research at the University of Texas Marine Science Institute, Fordham University: Louis Calder Ecological Institute, and the Smithsonian Tropical Research Institute: Boca Del Toro. Her areas of study included psychology, human impacts on marine environments, and sensory physiology of marine animals.

Although she was involved in volunteerism early in her youth, her experiences as a queer black female scientist led her to focus her efforts on teaching environmental justice principles and equity as well as educate under-served communities on how to navigate around systemic barriers to community-based environmental decision-making. Youth involvement and education has been the focus of her work. She currently serves on the WA state Environmental Justice task Force, Sustainable Tacoma Commission, the Diversity Equity Inclusion Community of Practice (DEICOP), and the South Sound Urban League Young Professionals. Emily now works as the Community Outreach Educator for the Seattle Aquarium.

Emily's hobbies include dance and SCUBA diving.



ABRF Award

Jennifer Lippincott-Schwartz
Senior Group Leader, HHMI Janelia Research Campus

Dr. Lippincott-Schwartz has spent most of her career as a cell biologist devising live cell imaging techniques for studying how cells are organized and dynamically function. Most recently, at the Howard Hughes Medical Institute's Janelia Research Campus, she's been studying how organelles communicate with each other through inter-organelle contacts and the role this plays in maintaining cell homeostasis. This professional focus has yielded many intriguing discoveries and countless beautiful images.

Following her undergraduate work at Swarthmore College, Lippincott-Schwartz took time out to teach science and math in Africa. There, she fell back in love with science.

When Lippincott-Schwartz returned to the United States, she pursued a master's degree in Philip Hanawalt's lab at Stanford University, studying DNA repair. As she dug into the roles of repair enzymes, she couldn't help but think, "I'm breaking cells apart to purify a single enzyme, but what about the entire system – how does the cell, as a whole, function?"

She earned her PhD at Johns Hopkins University, in Douglas Fambrough's lab. Her work focused on lysosomes - organelles responsible for the breakdown of unwanted proteins in cells. Using antibody targeting and fluorescence microscopy, Lippincott-Schwartz discovered the lysosomal-associated membrane protein, LGP120.

But it was during her postdoctoral work with Richard Klausner, at the National Institutes of Health (NIH), that things really took off. There, she coauthored 19 papers that included the identification of a surprising new protein degradation pathway in which the endoplasmic reticulum (ER) degrades entire proteins, and a retrograde pathway for protein trafficking from the Golgi back to the ER.

Lippincott-Schwartz stayed on at the NIH, as a primary investigator and chief of the Section on Organelle Biology in the Cell Biology and Metabolism Branch. Hoping to expand her research into live-cell imaging, she began searching for a way to tag proteins in live cells. Eventually her group created a photoactivatable form of green fluorescent protein (GFP), which allowed them to switch a tagged protein's green glow on and off using flashes of light.

Her discovery led to a fruitful collaboration with physicists Eric Betzig and Harald Hess (now group leaders at Janelia), who proposed a new function for the photoactivatable protein. The scientists used the protein to generate photoactivatable fluorophores, or dyes, which enabled them to illuminate different sets of molecules sequentially, creating a microscope image far more detailed than previously possible. The method, called super-resolution microscopy, garnered Betzig the 2014 Nobel Prize in Chemistry.

Using super-resolution microscopy and other fluorescence imaging techniques, Lippincott-Schwartz's NIH lab group probed subcellular processes, such as lipid droplet formation and organelle dynamics, for nearly three decades. In 2016, Lippincott-Schwartz moved her lab to Janelia, where she continues to investigate cell biology, but in the context of the brain. Her group studies neurobiology on a cellular level, looking into processes such as organelle trafficking and metabolism, to better understand how nerve cells communicate and behave in normal and diseased brain function.

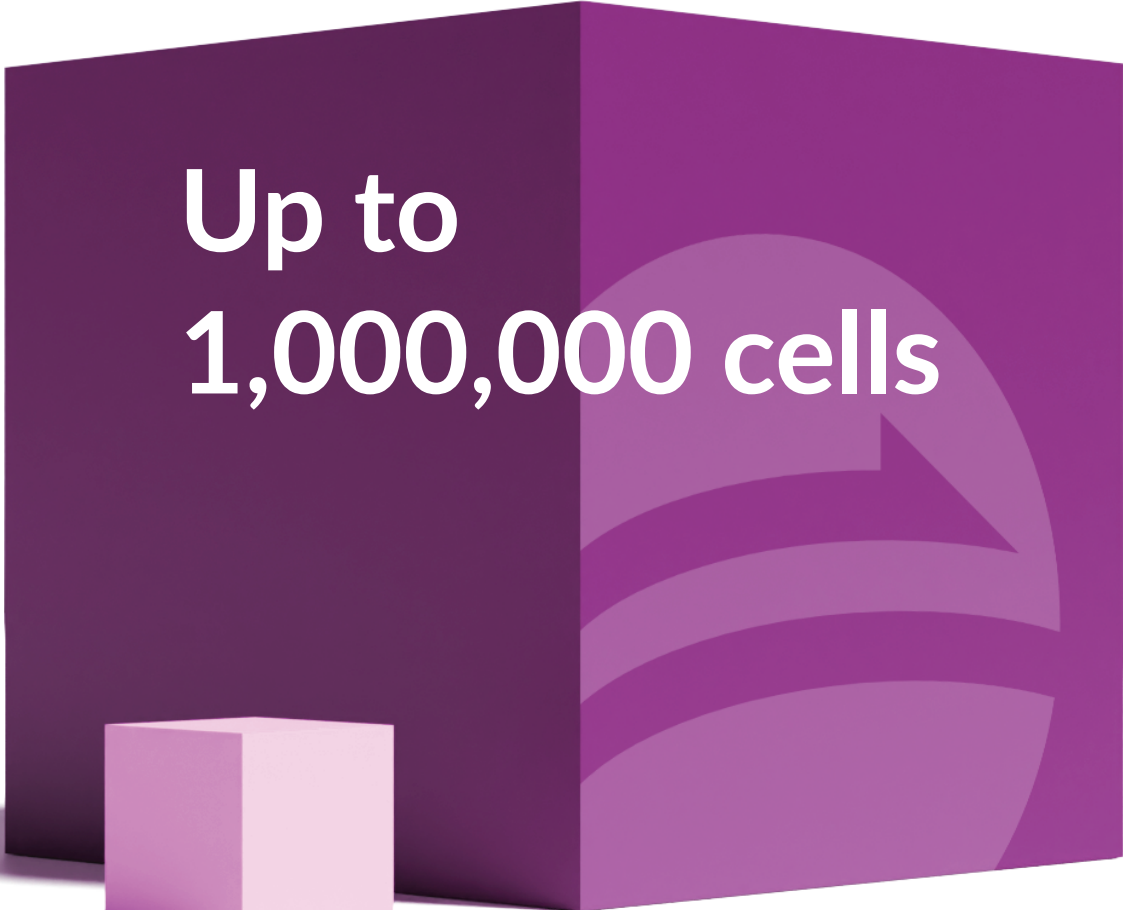
ABRF Past President, Rich Cole, with the New York State Department of Health's Wadsworth Center, described Lippincott-Schwartz's impact:

"It is scientists like Jennifer who have and continue to push boundaries of what we can see and how we image it. Many of these newly developed techniques are then incorporated in imaging cores around the world and have helped to advance our understanding of cellular and subcellular process."

The ABRF Award, the association's highest scientific honor, has been presented to an extraordinary group of researchers and innovators since 1994, including several Nobel Prize recipients.

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Booth 207
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Map of Property

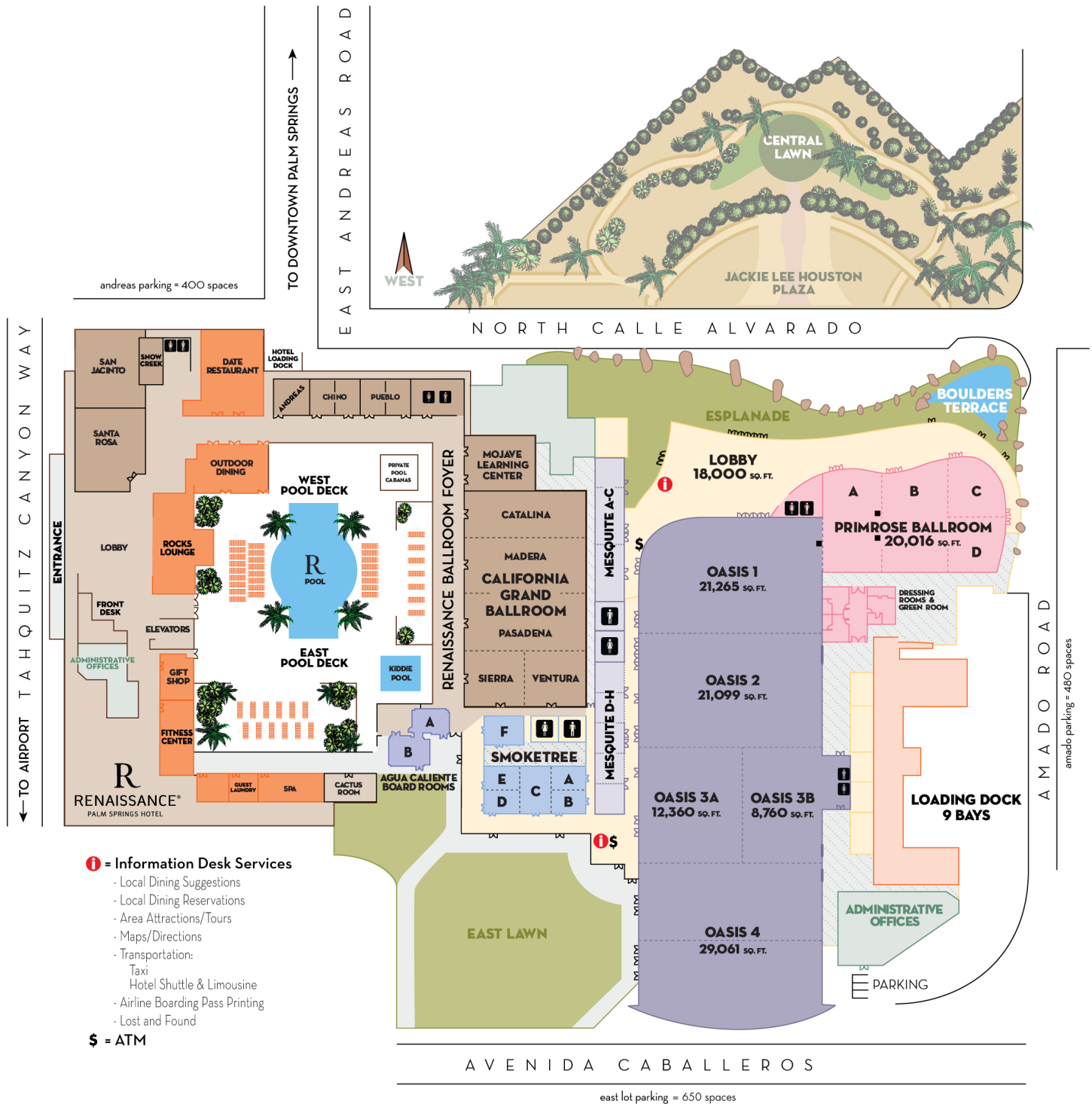
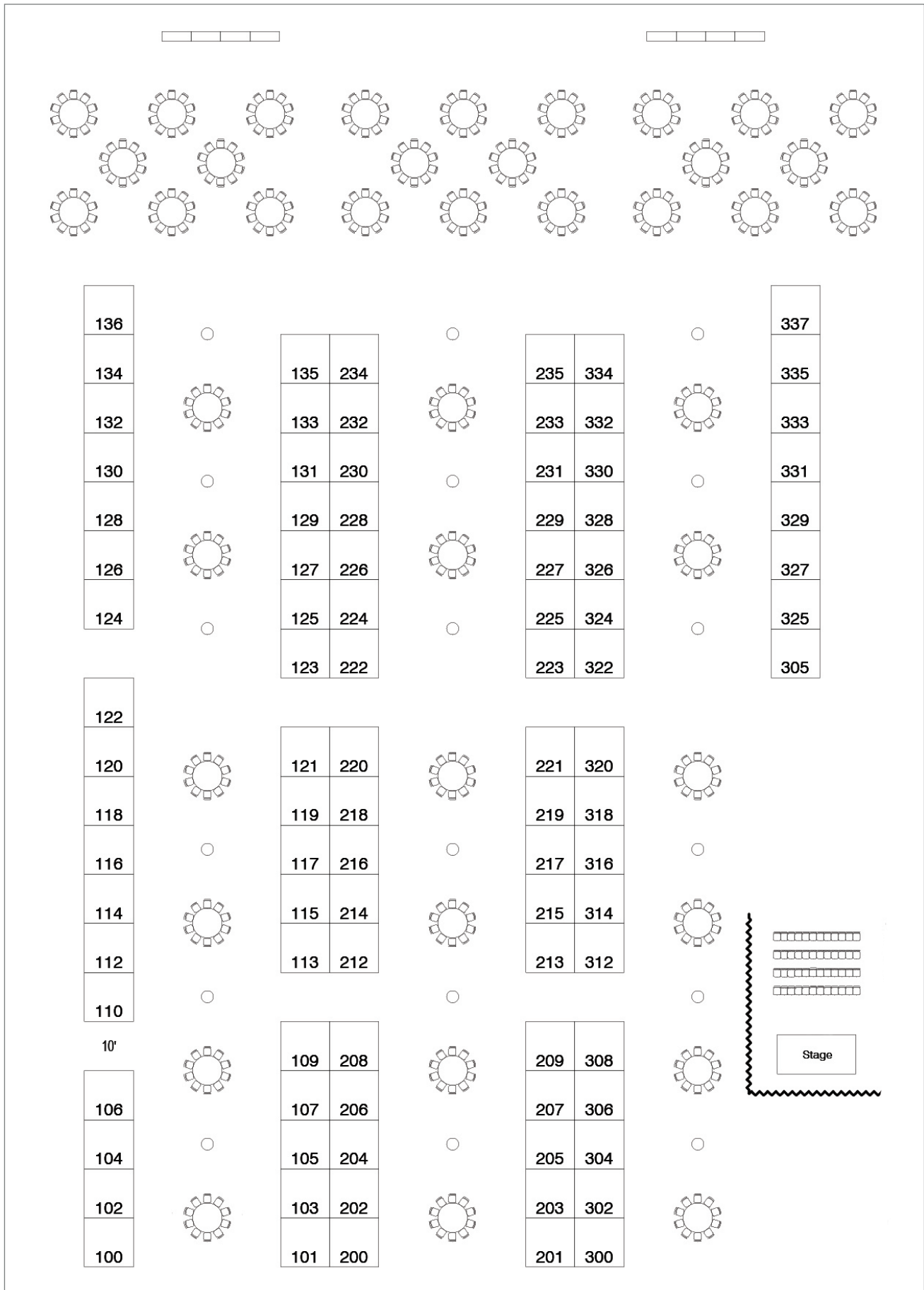


Exhibit Hall Hours

OASIS 1-3

Monday, March 28 9:30AM-5:00PM
 Tuesday, March 29 9:30AM-5:00PM
 Wednesday, March 30 9:30AM-2:00PM

Exhibit Hall Floor Plan



Exhibitors/Booth Numbers

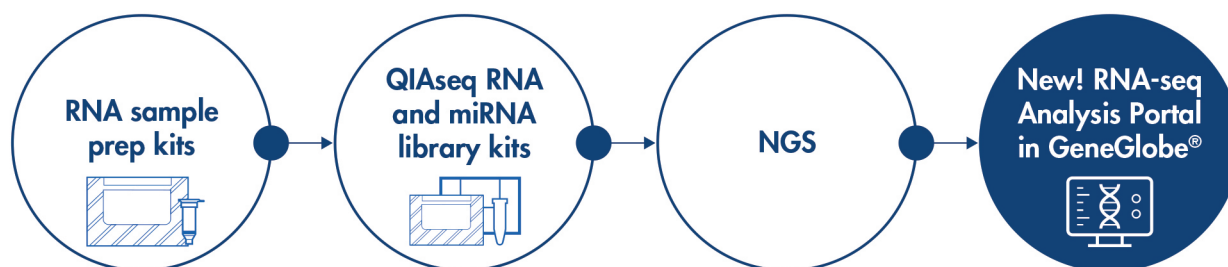
COMPANY	BOOTH #	COMPANY	BOOTH #
10X Genomics.....	101/103	MaxCyte.....	123
Abberior Instruments America	132	Meenta.....	330
Advanced Cell Diagnostics, Inc.....	208	Miltenyi Biotec.....	230/232/234
Agilent Technologies	306/308	Mission Bio	121
Akoya Biosciences.....	235	Molecular Loop Biosciences	212
Beckman Coulter Life Sciences	324/326	Nanocollect Biomedical	214
Becton Dickinson.....	325	NanoString Technologies.....	201/300
Bio-Rad Laboratories	218	New England Biolabs.....	100
Carl Zeiss Microscopy.....	122	Newomics	118
Cell Microsystems	226	Nikon Instruments	126
Cell Signaling Technology	102	Olink	318/320
Chroma Technology	109	Olympus.....	125
Coris Life Sciences Monitoring.....	119	Omega Bio-tek.....	222
Covaris, Inc.	227	Opentrons	304
Cyttek Biosciences.....	113	Oxford Nanopore Technologies	224
DNA Script	220	PacBio	305
DISPENDIX	333	Parse Biosciences.....	207/209
Eclipse Bioinnovations, Inc.....	229	PerkinElmer.....	200/202
Edge BioSystems	203	Purigen Biosystems	112
Element Biosciences.....	104	QIAGEN.....	219/221
Exprodo Software.....	332	Refeyn	213
Fluidigm.....	335/337	Roche	225
Hamilton Company.....	135	S2 Genomics	116
HTG Molecular Diagnostics, Inc.....	328	Seer, Inc.....	124
ibidi USA, Inc.	110	SomaLogic	134
Illumina.....	312/314	Specialty Underwriters LLC	136
Inscripta.....	223	Stratocore	106
INTEGRA Biosciences.....	322	SureFire Biosciences.....	115
IsoPlexis.....	205	Takara Bio USA.....	204/206
Jumpcode Genomics	114	Tecan.....	215/217
KromaTiD	233	Third Wave Analytics	120
Leica Microsystems.....	302	Twist Bioscience.....	117
Lexogen	107	Universal Sequencing Technology Corp.....	334
LUMICKS.....	316	Veranome Biosystems	231
Luminex.....	228	Watchmaker Genomics, Inc.	216
Lunaphore Technologies	105	Zymo Research Corp.....	327



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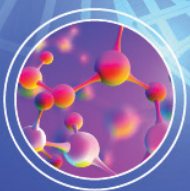
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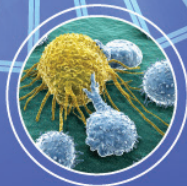
Sample → data analysis



Drug
Discovery



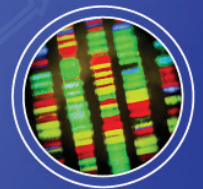
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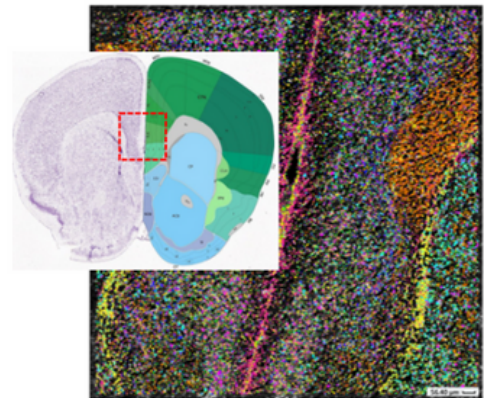


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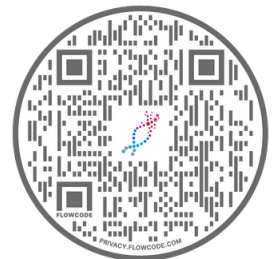
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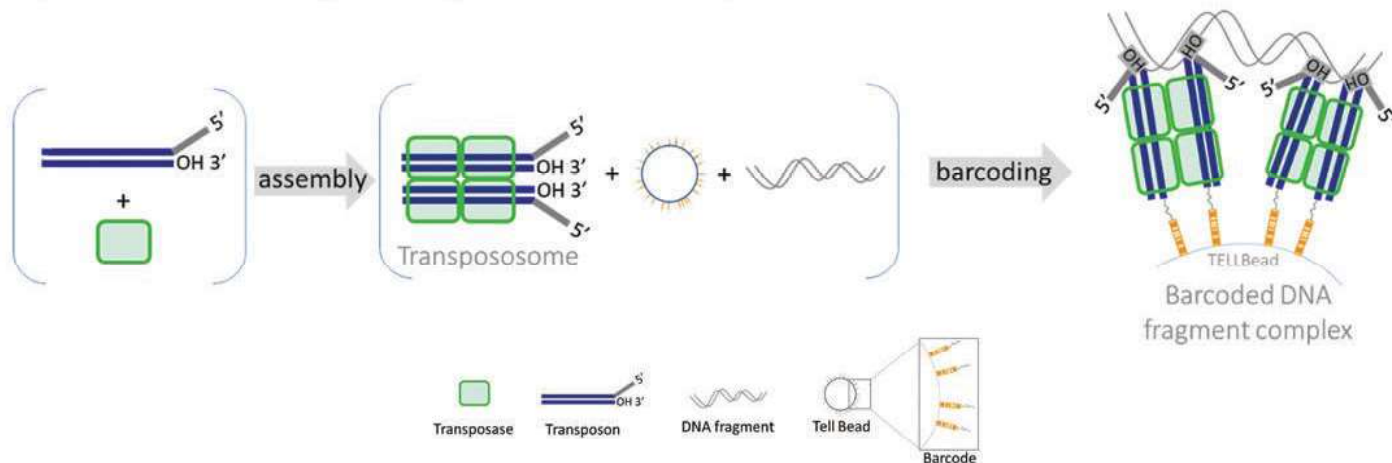
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How it works

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A new paradigm of **efficiency and performance** in NGS DNA library preparation

- **Skip** time-consuming master mix preparation steps
- **Broaden** your range of sample inputs
- **Streamline** automation and throughput

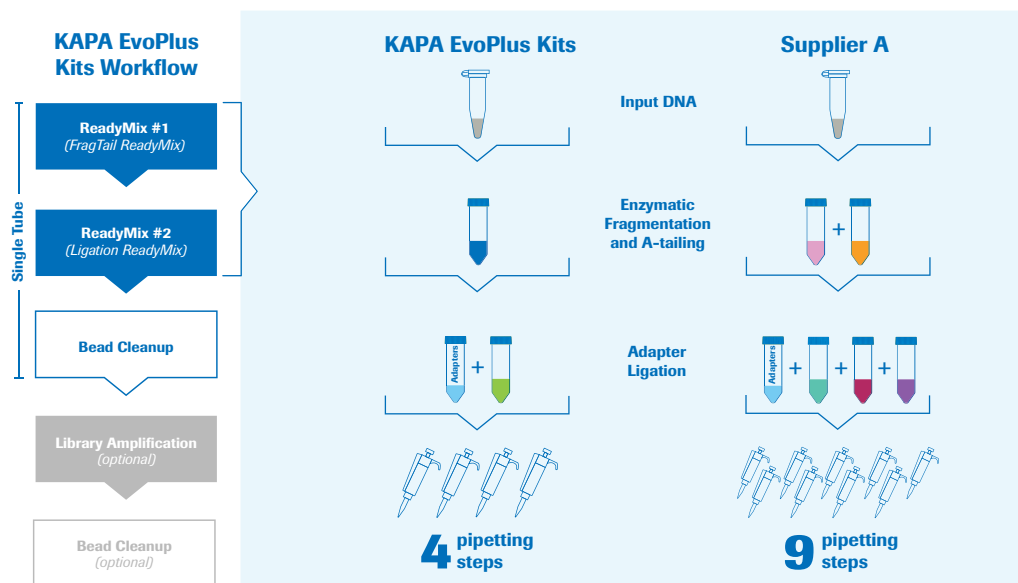


Figure 1: Comparison of the KAPA EvoPlus Kit workflow to another enzymatic fragmentation kit supplier ("Supplier A"). Both workflows are carried out in a single tube up to the optional library amplification step. KAPA EvoPlus ReadyMix reagents are ready-to-use; no master mix preparation is required. With KAPA EvoPlus Kits, only two reagents (**ReadyMix #1 and ReadyMix #2**) are added to input DNA vs. the Supplier A workflow which requires additional reagents and mixing steps, thus, increasing the quantity of consumables used and the number of pipetting steps. The core reaction (all non-optional steps) for KAPA EvoPlus Kits can be completed in only four pipetting steps vs. Supplier A which requires nine pipetting steps.

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See how it's done

March 29, 2022 | 1:00 - 2:00 PM | Concurrent Session

KAPA EvoPlus Kits: Bringing new levels of convenience, performance, and scalability to enzymatic DNA fragmentation for NGS library preparation

Speaker | Dustin Masser, PhD, Field Application Scientist



Spatial Biology Workshop at ABRF 2022

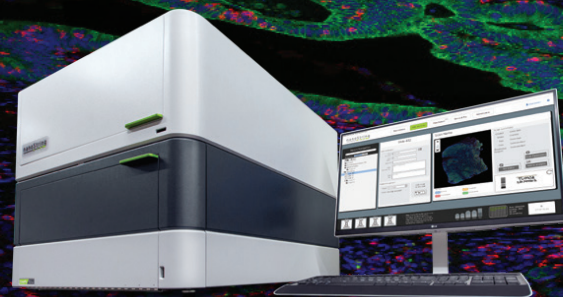
ANNOUNCING!

ABRF Day 1:

March 27, 2022

1:00 – 4:00 PM PT

Pasadena Room



Join NanoString for the first annual Spatial Biology Workshop at ABRF. Collaborate with resource facility labs from across the country to share best practices for utilizing GeoMx Digital Spatial Profiler (DSP). Journey through the GeoMx DSP workflow hearing from fellow core labs and NanoString spatial experts who will share tips & tricks along the way.



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TECHNOLOGY SHOWCASE

MODERNIZING NGS LIBRARY PREP WITH SENSITIVE AND SCALABLE DNA AND RNA SOLUTIONS

Presented by Travis Sanders, PhD
R & D Scientist, Watchmaker Genomics

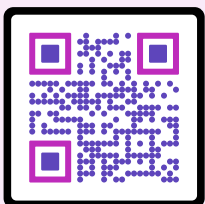
Monday, 6 - 7 pm
Smoketree C

Enjoy some drinks and apps while discovering Watchmaker's unique approach to innovation that layers specifically engineered enzymes into optimized DNA and RNA library prep workflows to deliver superior results at a reduced cost. You'll learn about:

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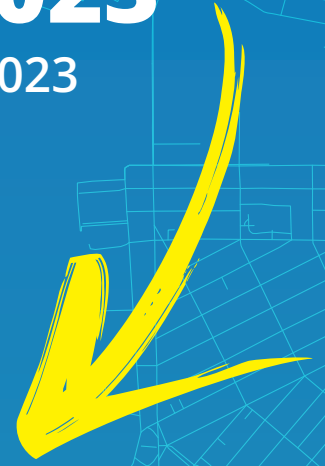
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Notes

Notes



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