

# Your *Genome Research* Needs

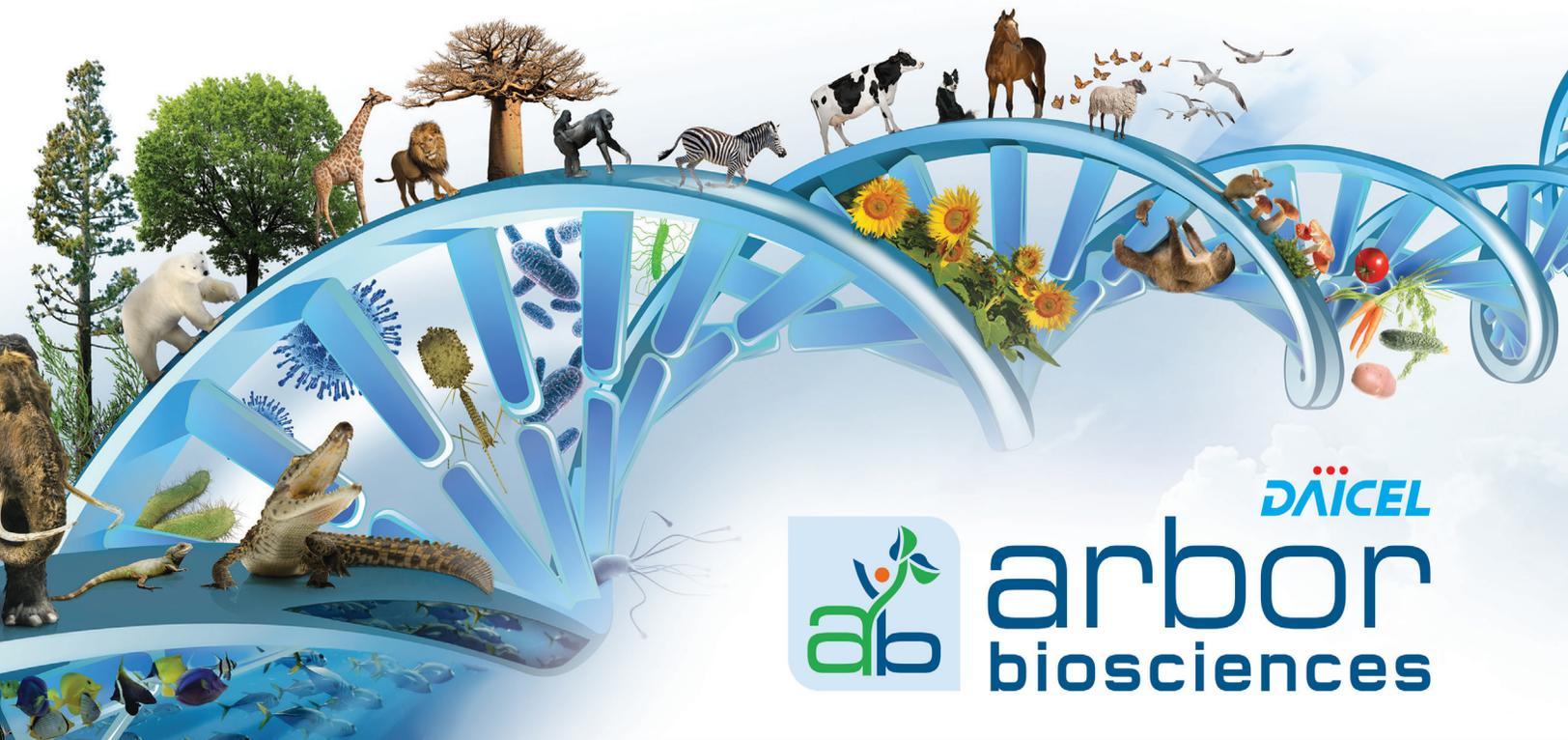
A hand silhouette is shown pointing towards a white, rounded square button with the word "HELP" written in bold, black, sans-serif capital letters. The background of the entire advertisement is a dark, textured image of a tree branch with some orange and yellow highlights, possibly representing a genome or DNA structure.

**HELP**

SBS Genetech offers a brand of products to support your genome research

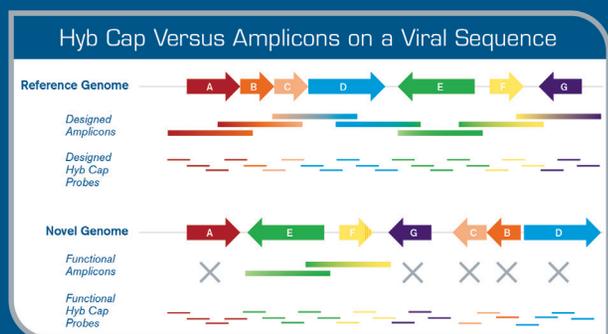
- Muta-direct™ Site-Directed Mutagenesis Kit
- Premium™ Master Assembly Mix
- Topo Cloning Kit
- Scarlet™ Blood Direct PCR Kit
- PrimeSNP™ Genotyping Kit
- GClean™ First Strand cDNA Synthesis Kit
- PrimeTaq™ Probe One-Step RT-qPCR Kit
- SuperGold™ High Fidelity PCR EasyMasterMix
- Bst DNA/RNA Polymerase
- .....

# SARS-CoV-2 Genomic and Cytogenetic Research Tools

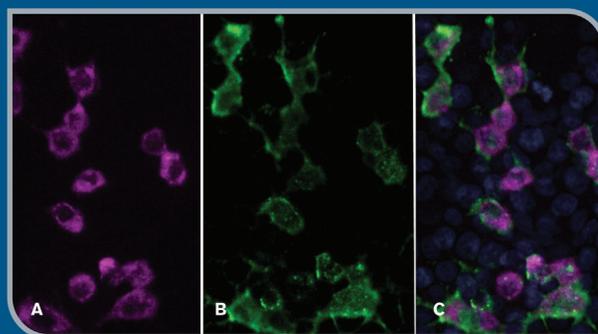


**myBaits<sup>®</sup> Expert SARS-CoV-2 Target Capture Kit** provides whole genome enrichment of viral molecules from both short-read and long-read NGS libraries prior to sequencing. The hybridization-based capture kit is ideal for analyzing the complete genome sequence of SARS-CoV-2.

**myTags<sup>®</sup> Expert SARS-CoV-2 FISH Probes** are specific for *in-situ* visualization of SARS-CoV-2 viral RNA molecules. They are designed using the most recent genome sequences available and offered in both pre-labeled and immortal formats for incorporation into all workflows.



Only **myBaits NGS hybridization capture** can retrieve target sequences that have significant rearrangements and/or mutations relative to the reference used for probe design; for example, when capturing genomic content from novel microbial genomes.



A) Detection of (+) viral RNA strand with **myTags SARS-CoV-2 Labeled** probe set. B) Immunocytochemistry of viral N-protein. C) Merged images with stained nuclei.

Images courtesy of Carmen Mirabelli, Christiane Wobus Lab, University of Michigan.

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Primary tube handling in automated direct sample processing on the QIASymphony SP for ccfDNA purification



Streamlined protocols for the **PAXgene Blood ccfDNA System**

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- ❖ Lower risk of sample mixup
- ❖ Minimize risk of blood exposure
- ❖ Save time, cut costs, reduce waste



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# Microbiomics Services

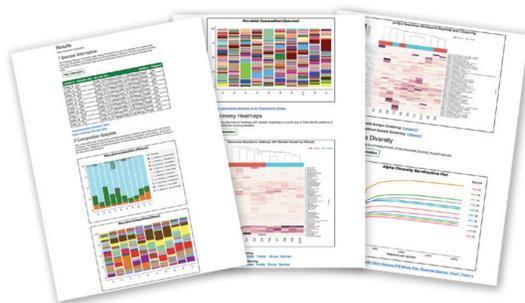
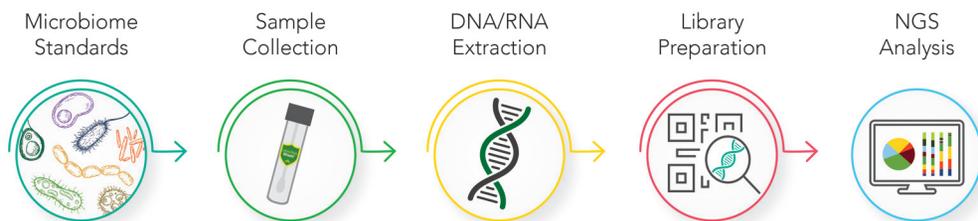
## Celebrate Your Discoveries



### A Complete Microbiomics Solution

Get data worth celebrating! Zymo Research is proud to offer unbiased microbiome profiling services, from DNA extraction to sequencing and bioinformatics analysis. ZymoBIOMICS® microbiomics services achieve species-level resolution with 16S sequencing and strain-level resolution with shotgun sequencing. All services include publication-ready data.

#### End-to-End Microbiomics Services, Including Bioinformatics Analysis.



#### Comprehensive and User-Friendly Report Includes:

- Composition Bar Plots
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- Alpha-Diversity
- Beta-Diversity
- Absolute Abundance for 16S/ITS
- Biomarker Discovery (LEfSe)

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for a custom microbiomics services quote.



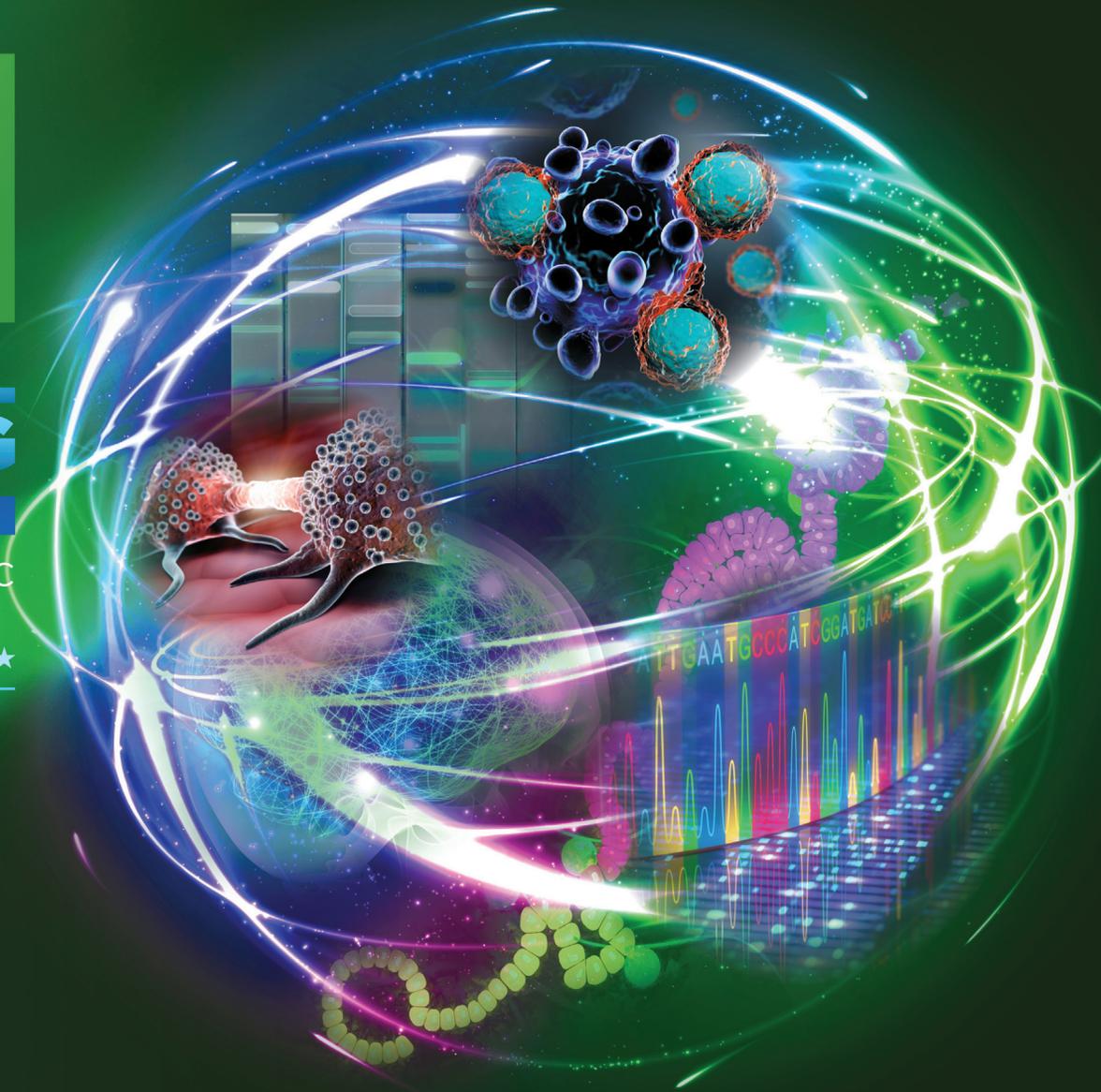
# AACR

American Association  
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## ANNUAL MEETING

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Submit your scientific findings to the world's most comprehensive annual meeting dedicated to the research, prevention, detection, and treatment of cancer.

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★ **Late-Breaking and Clinical Trials Abstract Submission Deadline:** Monday, January 11, 2021

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**Neuro AI Scholar**  
**Full Time**  
**Science/Research (RSCH)**  
**Graduate Degree**

CSHL is seeking outstanding candidates to join an innovative new program at the intersection of neuroscience and artificial intelligence (AI). Our goal is to help jumpstart a new “NeuroAI” field, applying insights from neuroscience to catalyze the development of next-generation artificial neural network systems. To forge this new area of research, CSHL has identified a critical need for a cohort of researchers trained in both neuroscience and AI. To meet this need, CSHL is introducing the NeuroAI Scholars Program, which will train AI experts in modern neuroscience by embedding them CSHL’s neuroscience labs.

The NeuroAI Scholars position is an independent research position designed for exceptional AI researchers. We encourage applicants who have recently received a Ph.D. as well as those who have spent time in academia or industry after graduation. Under mentorship from CSHL’s Neuroscience faculty, NeuroAI Scholars are expected to establish their own research programs while leveraging collaborations with AI communities. NeuroAI Scholars are provided with a salary commensurate with their experience. Appointments are generally awarded for a period of two years.

The NeuroAI program will build on CSHL’s programs in neuroscience and AI, and its existing strengths in neural circuits, rodent cognition, perception, social behavior, neural development, neurogenetics, theoretical and computational neuroscience, synaptic function, and brain disorders. Applications from women and underrepresented minorities are strongly encouraged. CSHL is dedicated to building and maintaining a diverse work environment.

To apply, please submit a cover letter that includes an explanation of your interest in neuroscience, CV and a one-page description of research accomplishments to: <http://cshl.peopleadmin.com/postings/17337> Position ID: 02748-R . Please request two references to email their letter of recommendation to [neuroaischolars@cshl.edu](mailto:neuroaischolars@cshl.edu). We will be evaluating applications on a quarterly basis starting on November 1st 2020. Multiple positions are available. Inquiries regarding the search should be directed to: [neuroaischolars@cshl.edu](mailto:neuroaischolars@cshl.edu)

Cold Spring Harbor Laboratory is a world-renowned research and educational institution with programs in neuroscience, artificial intelligence, quantitative biology, bioinformatics, cancer and plant biology. Located on the North Shore of Long Island 30 miles from New York City, the Laboratory has a rich and successful research environment, as well as an innovative graduate school.

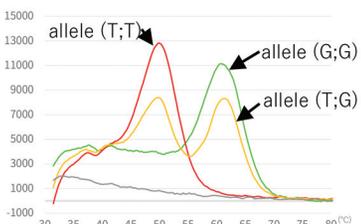
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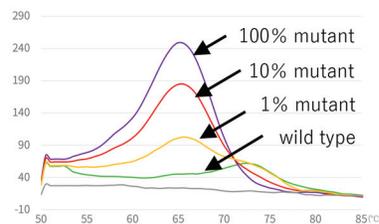
# A novel solution for SNP/somatic mutation detection

Eprobe is a **DNA-based fluorescent probe** which emits fluorescence when specifically binding to a complementary strand. Melting curve analysis after PCR can detect **SNP genotype** and **somatic mutations**. Two fluorescent dyes (thiazole orange and thiazole pink) are available.

- **High resolution SNP detection**—Increased  $T_m$  (approx.  $10^{\circ}\text{C}$ ) by the thiazole orange enables a shorter probe design and a clearer distinction of SNPs
- **Simple and highly sensitive somatic mutation detection**—sensitive detection of somatic mutations (down to 0.1%) can be achieved by suppression of PCR amplification of wild-type alleles by Eprobe (PCR clamping)
- **Compatible with most real time PCR instruments**—fluorescence emitted by Eprobe can be detected using a filter for SYBR<sup>®</sup> Green I\* \*SYBR<sup>®</sup> is a registered trademark of Molecular Probes, Inc.
- **Easy to use online design tools**—a design tool for a primer/Eprobe (E-design, [www.dnaform.com/edesign2/](http://www.dnaform.com/edesign2/)) and a thermodynamic calculation tool (ECHO, [www.dnaform.com/devel/echo/thermodynamics/](http://www.dnaform.com/devel/echo/thermodynamics/)) are available



SNP genotyping for IL28B (rs8099917 T;G) using an allele G specific Eprobe



Somatic mutation detection of KRAS G12D using an wildtype specific Eprobe.

Fluorophore (excitation/emission)	1.5 nmol	3.0 nmol	5.0 nmol	10.0 nmol
Thiazole orange (510 nm / 530 nm)	19,000 JPY <del>38,000 JPY</del>	30,000 JPY <del>60,000 JPY</del>	45,000 JPY <del>90,000 JPY</del>	70,000 JPY <del>140,000 JPY</del>
Thiazole pink (570 nm / 590 nm)	45,000 JPY	70,000 JPY	110,000 JPY	170,000 JPY

**Special offer for new customers**  
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## Get 3.5x More DNA and 2x More RNA from FFPE Samples

*Automated Nucleic Acid Purification – Pure and Simple*

The **IONIC® Purification System** uses isotachopheresis to extract, purify, and concentrate nucleic acid from biological samples without binding, washing, or stripping from fixed surfaces. Since nucleic acids remain in their native form, not denatured or dehydrated, the Ionic system produces more nucleic acid with higher quality – an ideal solution for low-quality samples or samples with limited starting material.

- **Simple Workflow**

Extract and purify 8 samples at a time with less than 5 minutes of hands-on time per sample

- **Purify both mRNA and miRNA**

Co-purify both mRNA and miRNA with higher yields than column-based kits

- **Simplify Lysis**

De-paraffinize, lyse, and de-crosslink in a single reaction without using harsh chemicals

- **Improve Reliability**

Minimize user-to-user variability, cross-contamination, and sample loss

For more information, contact [info@purigenbio.com](mailto:info@purigenbio.com).



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**PURE AND SIMPLE™**

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