



### What's new

We're excited to debut this newsletter bringing new tools and discoveries from across the genomic community. This issue brings together recent publications using IFC technology, new video tutorials for NGS library preparation and opportunities to engage with us at upcoming events.

### Connect with us at upcoming events



#### AACR 2026 (April 17–22)

We will be at AACR 2026 in San Diego! If you are attending, please visit us at Booth 1929. Field Applications Scientist Zach Farrow will be there, and you can connect with him in person to learn more about our qPCR workflows for gene expression measurements.

[Book a meeting with Zach at AACR ►](#)



#### APHL 2026 (May 4–7)

We're also thrilled to attend APHL this year in Baltimore, MD, to connect with the public health lab community and help celebrate its 75th anniversary! Several of our genomic team members will be there and we invite you to visit us at Booth 622 to learn how our qPCR technology can be used to detect up to 96 pathogens per sample in a single run.

[Book a meeting with us at APHL ►](#)

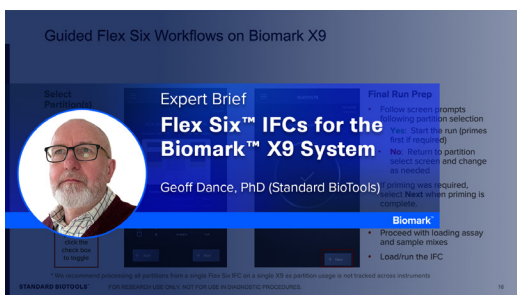
### New videos to watch



#### Introduction to IFCs masterclass

In this 13-minute video, Field Applications Scientist Zach Farrow introduces the fundamentals of integrated fluidic circuit (IFC) technology, covering how IFCs work, where they add value and how they support scalable, high-throughput genomic workflows.

[Watch | 13 minutes ►](#)



#### Flex Six Expert Brief

In under five minutes, hear from Field Applications Scientist Geoff Dance on how the **Flex Six™ IFC** enables flexible, small-batch qPCR workflows on the **Biomark™ X9 System**, and how the **Biomark X9 System Software** allows for simple tracking of the partitions on the Flex Six IFC.

[Watch | 4 minutes ►](#)

## Recent publications

### Environmental surveillance of viral pathogens in urban rivers

In [this study](#), researchers from Université Paris-Est and ANSES (France's national public health and food safety agency) tracked 30 human viral pathogens in surface waters around Paris using high-throughput (HT) qPCR on the Biomark HD system with 48.48 IFCs. This workflow enabled simultaneous screening of multiple samples and assays, revealing strong seasonal effects on viral prevalence in the Seine and Marne rivers and demonstrating the value of scalable qPCR for environmental surveillance.

[Explore the findings ▶](#)

### Why mutation order matters in early colorectal cancer

A recent [Nature study](#) reveals that many cancer-driving mutations are actively lost in healthy intestinal tissue unless a permissive genetic “priming” mutation occurs first. Using a targeted amplicon sequencing panel designed with [Standard BioTools™ D3™ Assay Design services](#), and NGS libraries prepared on the Juno™ system with 8.8.6 IFCs, the authors show how mutation order and cellular context dictate which drivers persist during early colorectal tumorigenesis.

[Read the paper ▶](#)

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## New tutorials for NGS library prep

**NGS Library Prep Training Videos**

- 48.48 IFC Priming
- Loading Samples and Assays



### NGS library prep training videos

Get hands-on guidance with our latest [step-by-step video tutorials](#) for NGS library prep on IFCs. These short videos cover priming a 48.48 NGS LP IFC, loading samples and assays, as well as helpful tips like proper pipetting technique to avoid introducing bubbles.

[Watch the tutorials ▶](#)

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## Genomics in a nutshell

**Something to watch:** Tracking Respiratory Pathogens in Air Samples

**Something to read:** Safeguard sample integrity with molecular sample ID

**Something to do:** Check out our new e-catalog

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