



Vazyme Biotech

ABOUT

Vazyme Biotech is a global leader in enzyme engineering, molecular biology reagents, and integrated automated laboratory platforms. We provide high performance solutions across Next Generation Sequencing (NGS) library preparation, qPCR, reverse transcription, and nucleic acid extraction, empowering researchers to achieve superior data accuracy and operational efficiency.

What We Are Presenting at the Booth

At our joint booth, Vazyme showcases an integrated pipeline bridging automated sample preparation, liquid handling, and robust sequencing chemistries for high throughput NGS workflows.

Featured Solutions on Display:

- Automated Nucleic Acid Extraction Instrument: Compact magnetic bead based extraction platform for high purity isolation of DNA and RNA.
- Automated Liquid Handling Workstations: Flexible solutions for complex pipetting, master mix preparation, and NGS library construction.
- High Throughput Liquid Handlers: Built for fast, consistent multiwell plate liquid transfers and serial dilutions.
- Automated Pooling and Normalization Station: Dedicated workstation for automated sample pooling and library normalization.
- Precision Quantimeter: Fluorometric quantification for accurate sample input checks prior to sequencing.
- NGS Library Preparation Portfolio: High efficiency reagent kits optimized for whole genome, transcriptome, and low input applications.



Dr. Ng Win Seng, Vazyme Application Expert

Streamlining Nucleic Acid Extraction and Automated Workflows for High-Throughput Next-Generation Sequencing

As genomics and transcriptomics scale toward higher throughput and stringent reproducibility, manual sample preparation remains a critical bottleneck across Next Generation Sequencing (NGS) pipelines. Integrating benchtop magnetic bead extraction platforms with specialized liquid handling workstations, precision fluorometric quantimeters, and dedicated pooling modules eliminates manual variability from initial nucleic acid isolation through to library normalization. By evaluating performance across automated liquid handlers and dedicated normalization systems, this session details how pairing scalable hardware with optimized library preparation chemistries streamlines complex NGS workflows while ensuring high yield, purity, and batch to batch consistency.