Enabling Efficiency with Acoustic Energy: High-throughput DNA Shearing

**CHALLENGE**

- **Enhancing Accuracy and Efficiency**: shearing DNA to specific sizes in low sample volumes and high-throughput settings
- **Reducing Variability in Assays**: commonly observed in traditional approach, variability can be counter productive while scaling up throughput capabilities

**GOAL**

- Screening assays for performing amplicon shearing in low volume requires a robust, reliable method and ready to be scaled to achieve high-throughput sample analysis
- For Next Generation Sequencing assays, it's critical to develop 384-well plate workflows for 200 bp fragment size in low volume (3.5 µL) or 500 bp in low volume (5 µL)

Using the R230 Focused-ultrasonicator with AFA provides fast, robust, and reproducible high-throughput assays, enabling researchers to focus on DNA shearing.

- High-throughput 384 well plate for NGS, WGS, WES
- Ease of use with a robust workflow
- Optimizable AFA shearing at low volume for unpurified samples