

NEXTGENPCR Steals the Show at ESHG and LABVOLUTION

Superfast cycler stuns genomics community with sub-2 minute protocols

Amsterdam, July xxx, 2017: Dutch biotechnology company Molecular Biology Systems (MBS) today reported major interest for its revolutionary NEXTGENPCR thermal cycler following the appearance of the first production models at the recent ESHG and LABVOLUTION meetings.

Described as the first real advance in thermal cycling for 15 years, the NEXTGENPCR dramatically slashes current time-consuming DNA amplification from hours to minutes. For example, a 3 Step, 30 cycle protocol can be performed in less than 2 minutes. Standard Format 96- or 384 well microplates are used, making incorporation into existing laboratory routines and protocols seamless. NEXTGENPCR delivers these astonishing times by turning existing technology on its head. Instead of heating and cooling down Peltier blocks, NEXTGENPCR cleverly moves standard microplates rapidly across 3 temperature zones already set to the required denaturing, extension and annealing temperatures. The microplate samples are embedded in polypropylene foil and slightly compressed by the temperature blocks in each zone, which ensures thorough sample mixing and optimal heat transfer. Well to well uniformity across the block is better than 0.1 °C. Temperature transition is practically instantaneous with estimated ramp rates of 1000 degrees per second and a total reaction time of 2 minutes.

“Interest surpassed our expectations,” says MBS CEO and founder Gert de Vos. “So much attention has focused on sequencing, that the equally important front end of the process has been largely forgotten. Visitors to our booths were astonished at NEXTGENPCR’s ability to slash amplification times from hours to minutes and quickly realized the impact it could have on their work. Furthermore, NEXTGENPCR is suitable for all sizes of laboratory. From individual researchers, who will appreciate its small footprint and low energy consumption to large high-throughput facilities where NEXTGENPCR’s robotics readiness comes into play. We are now setting in place a comprehensive dealer network to serve customers across Europe and further afield.”



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Notes to editors:

Molecular Biology Systems (MBS) is a Netherlands-based molecular biology instrumentation company founded in 2015. The company's lead product is the NEXTGENPCR thermal cycler which uses patented heating and cooling technology to reduce PCR amplification cycles from hours to minutes for both research and routine genetic testing. More at www.nextgenpcr.com