

UK Intellectual Patent Office (UK IPO) grants 3rd patent to RevoluGen NAIP technology

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RevoluGen's Fire Monkey High Molecular Weight (HMW) technology supports a broader laboratory research usage for a massive high throughput, high-quality, cost-effective DNA sequencing, and genome assembling



The UK genomic tools developer, RevoluGen Ltd. announced that its divisional method patent has been granted by the UK Intellectual Patent Office (UK IPO). This provides RevoluGen with controlling IP for its Fire Monkey High Molecular Weight (HMW) DNA extraction/size selection technology across its novel chemistry, column matrix and now its elution methodology.

RevoluGen's Nucleic Acid Isolation and Purification (NAIP) technology is based on a spin-column protocol to extract HMW-DNA which, despite the use of high g-forces, protects the long and fragile DNA molecules from more massive shearing.

"The Fire Monkey technology has the flexibility to support a wide range of HMW-DNA extraction formats, including single manual extractions, bench-top semi-automation, and even fully automated floor-standing machines for high-throughput extraction. Fire Monkey is in routine use in its manual spin-column format with our fully automated 96-well plate format using an integrated Rotanda 460 robotic centrifuge," said Dr Georgios Patsos, inventor of the Fire Monkey technology and CSO at RevoluGen.

Fire Monkey significantly improves sequencing results by extracting long fragments of DNA with a simultaneous size selection function. The built-in protocol minimizes the small-fragment DNA contamination of the result, making the extract immediately library prep ready. Fire Monkey supports everything from the research laboratory use all the way up to massively high throughput, high-quality, cost-effective DNA sequencing, and genome assembling.

"With the acquisition of Circulomics by Pacific BioSciences, Fire Monkey is the only independently owned HMW-DNA extraction technology, applicable across any sequencing platform including Illumina and Oxford Nanopore Technologies, as well as PacBio," added Haitsma Mulier.

RevoluGen's mentioned granted UK patents form part of a global IP protection strategy including patent and trademark applications filed in foreign territories such as the EU, USA, Japan and China, as well as Australia, Pakistan, Argentina, Brazil, Bangladesh, Fiji and Taiwan, amongst other regions.

Caption: Dr Georgios Patsos, Revolugen CSO demonstrates the new validated automated Fire Monkey HMW-DNA extraction robotic system