

# Innovate UK

**Results of Competition:** Newton Fund - South Africa-UK Collaborative R&D Competition in Precision Medicine 2016

**Competition Code:** 1701\_CRD1\_NEWTON\_SA

**Total available funding is £1.5M**

**Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.**

Participant organisation names	Project title	Proposed project costs	Proposed project grant
Aparito Limited	Precision management (PM) of Epilepsy in South African children	£287,175	£201,023
<b>Project description - provided by applicants</b>			
Aparito is using off-the-shelf wearable technology and disease-specific mobile apps to enhance diseasemonitoring to allow for true precision medicine. Using the Aparito platform allows for objective real-timemonitoring of individual patient function and drug response outside of the hospital, coupled with measures of the patient perspective via the app, to allow better communication, patient empowerment and adaptivepersonalised treatment pathways. Working with University of Cape Town and Red Cross Children's Hospital this study aims to combine an innovative home-based / remote clinical monitoring system with genetic and pharmacogenetic information to assess the clinical utility of such approaches in improving outcome for a group of children with complex or refractory epilepsy.			

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<b>LGC Limited</b>	Development of a rapid ParaDNA test kit for improved clinical management of patients with breast cancer and associated co-morbidities	£430,250	£215,125
<b>Project description - provided by applicants</b>			
A novel point of care (PoC) diagnostic testing system and screening tool will be developed to improve the clinical management of vulnerable breast cancer patients. LGC (UK) will collaborate with two South African partners, Stellenbosch University and a SAMRC spinout company, Gknowmix, to develop the system. This is made possible by utilising the LGC ParaDNA technology, enabling point of application (PoA) gene mutation testing within 1 hour by non-expert users. For the first time, PoC technology will be used to detect BRCA1/2 mutations and genetic variants in key pathways shared by various non-communicable diseases (NCDs). Current laboratory methods take at least 1 week from sample collection to reporting. Combining the unique PoA, ParaDNA technology with the proprietary, interpretative pathology supported genetic testing algorithms of Gknowmix, will result in this quantum innovation moving PoA to PoC. A successful outcome will enable this system to be scaled in South Africa and globally with significant benefit to breast cancer patients and ultimately those at risk for developing other non-communicable diseases.			

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Congenica Ltd	Delivery of Genomic Testing in Remote Locations	£411,172	£287,820
<b>Project description - provided by applicants</b>			
The project aims to deliver a genomic testing platform optimised for the South African market. The platform will utilise a sequencing technology and interpretation platform with a low capital cost, enabling thesequencing and analysis to be done in a resource limited environment. The platform will allow the delivery ofprecision medicine through genomics at an appropriate price point to promote the health of South Africans.			

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