

Innovate UK

Results of Competition: UKI2S Accelerator Programme for Technology Development Projects: Round 6

Competition Code: 1903_UKI2S_R6

Total available funding is £486,691

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
CAGEN LIMITED	Nanocages for Delivery Beyond the BBB: Treatment of Glioblastoma	£573,437	£286,718

Note: you can see all Innovate UK-funded projects here: <https://www.gov.uk/government/publications/innovate-uk-funded-projects>

Use the Competition Code given above to search for this competition's results

Project description - provided by applicants

CageN has developed a technology based upon modified human ferritin to encapsulate drugs and improve their intracellular delivery for screening *_in vitro_*. The company now seeks to further engineer the nanocages for delivery of drugs across the blood-brain-barrier (BBB) *_in vivo_*. CageN will formulate known anticancer drugs for the treatment of glioblastoma multiforme (GBM), the most aggressive and frequent CNS neoplasm and a critical unmet need, with a 5 year survival rate of less than 3%. The funded project will allow engineering of the ferritin nanocage to be compatible for use in man and demonstrate manufacturability at scale. Studies will evaluate biodistribution to the brain (as a major site of delivery), safety and tolerability in animals prior to clinical testing. The product will serve two functions: firstly, to produce a candidate drug in a disease in which there is a clear unmet need with the aim to out-licence to the pharmaceutical industry and secondly, to showcase the nanocage platform and attract high value deals with pharma partners for delivery of molecules to treat diseases of the CNS.

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PROXISENSE LIMITED	Thermal Product Sensing for Counterfeit Drug Detection	£399,946	£199,973

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Project description - provided by applicants

The Thermal Product Sensing for Counterfeit Drug Detection programme will develop novel sensor and electronics technologies for detecting counterfeit drugs in the pharmaceutical market. The Thermal Product Sensor technology is a completely novel approach providing hand-held affordable devices providing real time data to the pharmaceutical supply chain, regulators, customs and border protection officials through to patient end-users. This product will support the vision of a patient being dispensed a medicine by a healthcare professional through a fully regulated supply chain anywhere in the world, increasing public confidence that the medicine being dispensed is a genuine and regulated product taking back control of global health and well-being.

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