

Innovate UK

Results of Competition: ICURE Aid for Start Ups Cohort 4

Competition Code: 1601_SPECPRO_ICURE4

Total available funding for this competition was £6M from Innovate UK

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
Aston Particle Technologies Ltd	ICURE Aid for Start Ups Cohort 4	£888,988	£499,500
Project description - provided by applicants			
Aston Particle Technologies offers a one-step particle engineering technology that processes drug without the use of solvents and heat. Its USP lies in delivering enhanced particle properties for challenging drugs (high dose, moisture sensitive or heat sensitive) at low cost.			

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

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Interface Polymers Ltd	ICURE Aid for Start Ups Cohort 4	£2,185,228	£500,000
Project description - provided by applicants			
<p>Polarfins are a new range of polymer additives that modify the properties of the world's most commonly used plastics ' polyethylene and polypropylene ' making them easier to mix, glue, paint and coat. These additives will radically transform the performance and cost competitiveness of polymeric materials in a plethora of market applications, from high-tech composites to recycling. Interface Polymers Limited is a University of Warwick spin-out which will develop the production of Polarfins, a range of high margin products, getting this breakthrough technology out of the lab and into the hands of customers across vast global industries including packaging, construction and automotive.</p>			

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Trimunocor Ltd	ICURE Aid for Start Ups Cohort 4	£500,595	£500,595
Project description - provided by applicants			
<p>The incidence of preterm birth is increasing and over half of premature babies less than 28 weeks gestation develop neonatal chronic lung disease (nCLD). Survivors with nCLD have long-term lung damage resulting in frequent infections, asthma and emphysema in later life as well as associated neurodevelopmental problems such as cerebral palsy. The health and societal costs from prematurity are estimated at \$26.2 billion per annum in the US alone. There are currently no treatments to prevent nCLD. In nCLD, severe asthma and COPD there is a deficiency of the naturally protective anti-inflammatory human surfactant protein D (SP-D). We have developed a novel way to produce a functional fragment of SP-D (rfhSP-D) and founded a start-up company, Trimunocor Ltd, to develop rfhSP-D into a preventive treatment for nCLD. The Aid for Start-up funding would pump prime the process development of a scale-able rfhSP-D manufacture process. If we demonstrate the commercial feasibility of manufacture, we are confident that we will secure subsequent funding from investors and pharmaceutical partners to undertake clinical trials and develop rfhSP-D as a new treatment to prevent nCLD.</p>			

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AccelerComm Ltd	ICURE Aid for Start Ups Cohort 4	£499,741	£499,741
Project description - provided by applicants			
<p>Wireless communication is now ubiquitous, with technology advances enabling ever more demanding applications. Mobile handset users are increasingly using the 4G cellular network for watching high definition video and for low delay Internet browsing. New applications like online gaming, virtual reality, cloud applications, vehicular safety and remote control of robotics will underpin the drive towards higher data rates and lower delays in 5G. However, these technology advances have been stalled by a bottleneck, which is imposed by the biggest part of the processing involved in wireless communication, namely the error correction that must be performed to ensure reliability. This bottleneck will prevent the achievement of the target data-rate and communication delay in 4G, 4.5G and 5G base-stations, as well as in 5G handsets. AccelerComm offers a unique technology that solves exactly these problems. Our patented TurboAccelerator radically changes this error correction processing for the first time in 20 years. We can increase data rate by 10 times and reduce delay by 10 times, while maintaining comparable hardware efficiency, energy efficiency and error correction capability.</p>			

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