Innovate UK

Results of Competition: Health & Life Sciences Round 1 - Over 24 Months or Over 100K
Competition Code: 1609_LO_HLS_R1

Total available funding is up to £10m for Stream 2

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
Everfresh Natural Foods	Innovatively improving the food safety and quality of sprouted grain bakery products	£201,635	£120,981
Campden BRI (Chipping Campden) Ltd		£124,967	£124,967
ILAPAK LIMITED		£48,120	£24,060
HOLMACH LIMITED		£69,665	£48,766
Briggs of Burton PLC		£179,547	£89,774

Project description - provided by applicants

Everfresh is a market leader in the emerging market for long-life sprouted grain bread and cakes.In the proposed project, it will work with its consortium of industry and research partners to develop an industry-leading approach for the production of sprouted grain bakery products.

Note: you can see all Innovate UK-funded projects here
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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Pronostix Ltd	Y-Ware: Young-stock Welfare & Performance - Decision Making Platform	£706,395	£494,476
EntServ UK Limited		£99,124	£49,562
University of Nottingham		£325,745	£325,745
Project description - provided by applicants			
The goal of agricultural and farm management is to drive profitability and maintain welfare standards, particularly in relation to the Ruminant Livestock sector where three key variables determine optimisation- Production Yield, Cost and Risk Avoidance. This is particularly relevant for Young-stock where of the 2.5million calves born annually, 8% are born dead/die in 24hrs and a further 15% die in rearing, from diarrhoea and/or respiratory disease for young-stock leading to £80 M losses for the UK cattle industry. YWare will provide an IoT (Internet of things)-based data collection solution, specifically developed for Young-Stock for accurate Animal Health and Welfare assessments to reduce and eliminate the cause of the current losses.			

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Nanoco Technologies Ltd University College London	VIVODOTS™ nano-devices for detection, resection and management of pancreatic cancers	£807,815 £345,439	£484,689 £345,439
Project description - provided by applicants			
A cancer imaging and therapeutic nano-device will be developed to enable better detection and treatment of lethal types of tumours, particularly pancreatic tumours. The design will be based on the use of biocompatible and fluorescent quantum dot nanoparticles (QDs) equipped with specific cancer targeting molecules. The proposed nano-device will enable more effective pre-, intra-, and post-operative management of pancreatic cancers, resulting in better surgical treatment, higher cure rates, and better quality of life for survivors. Later development should lead to the extrapolation of the same concept to other types of deadly malignancies.			

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Ingenza Limited	A new pipeline of first in class antibiotics templated on the bacteriocins	£530,803	£371,562
Plymouth University		£299,361	£299,361
NPL Management Ltd		£523,557	£261,779

Project description - provided by applicants

Bacteriocins are proteinaceous toxins produced by bacteria in order to kill other, closely-related strains. Bacteriocins from bacteria which normally colonize the human body hold considerable promise to replace/augment conventional antibiotics; however, despite their potency, these compounds have not evolved to function as therapeutics. As a result, the drug development community urgently needs a generic method able to convert these promising molecules into clinically applicable agents. In this project we will take a model bacteriocin and through iterative structure-function analysis significantly enhance its performance in terms of specificity, stability and potency. This will be achieved through the development of an empirical structure-activity relationship algorithm to generate a range of derivatives exhibiting drug-like properties without compromising the potent bactericidal activity of the original compound. We will then scale-up the manufacture of selected derivatives, demonstrating our capabilities not just in discovery but also in supply. No such combined capability currently exists and this innovation will allow the project partners to gain a unique and pre-eminent position in the market for bacteriocin-derived antibiotics. Keywords: antimicrobial resistance; drug development; bacteriocins.

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