

Innovate UK

Results of Competition: Finding value in complex biological data - integrated 'omics FS
Competition Code: 1505_FS_BIOS_IOMIC

Total available funding for this competition was £500K 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
Prozomix Ltd Newcastle University	Maximising the commercial impact of (meta-)genomics via bespoke HMM and big data tools	£140,104	£108,744
Project description - provided by applicants			
<p>This project aims to develop specialised cloud computing software at Newcastle University designed specifically for big data applications in the area of bioinformatics. The new software will enable scientists at Prozomix Limited to develop very large panels of biological catalysts (enzyme products) for various fields of application, but principally the production of active pharmaceutical ingredients (APIs) by synthetic chemists. Such Green-Chemistry industrial processes are in great demand as they offer the ability to produce such high value chemicals with significantly less impact on the environment, such as from heavy metals, solvent and other processing waste generated by traditional chemical processes. As a result such bioprocesses can also reduce the cost of production of APIs, leading to a positive societal impact through wider availability/increased effectiveness of drugs. This project will further cement the position of Prozomix Limited as a key supplier of such innovative biocatalysis enzyme screening products/services, and significantly contribute to the ambition of the company to become the gold-standard supplier in this rapidly expanding commercial sector.</p>			

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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Genestack Ltd Rothamsted Research Ltd	Cloud-based Multiomics Network Mining for Complex Crop Traits	£149,151	£111,298
Project description - provided by applicants			
<p>As population growth and climate change have become major challenges to food security, traditional routes to crop improvement are too slow to keep up with demand. This feasibility project involves building a proof-of-concept integration of Rothamsted's network analysis toolset into Genestack extensible genomics data analysis platform. Genestack is a bioinformatics startup created by experts from the European Bioinformatics Institute. Rothamsted Research is a leading UK institute, where the availability of plant genomes, transcriptomes and other data types has led to new insights: genetic improvement of grain development and quality, yield, disease resistance, drought tolerance and nutrient response. Complex analytical approaches of diverse 'omics data types are required to make such advances. The project aims to broaden Genestack's agri-informatics capabilities with diverse multi-omics plant datasets (genomes, transcriptomes, quantitative trait loci and literature) to enable the analysis of biological networks, to enable the provision of a robust integrated multi-omics data management, pre-processing and interpretation service to companies in the agri-tech industry.</p>			

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