

Results of competition: Sustainable high-value chemical manufacture through industrial biotechnology 2 – Business models feasibility study (BMFS)

Total available funding for this competition was £250k from the Technology Strategy Board and funding from Innovation Norway to be confirmed.

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
Green Biologics Limited (lead) Lucite International Limited	On Purpose Acetone Production for Lucite (OPAL)	£33,044	£23,552
Project description (provided by applicants)			
In this project, the partners (GBL and Lucite) will determine the technical feasibility of engineering Clostridia to produce bioacetone in high yield (as opposed to biobutanol) using fermentation. The partners will also determine the economic feasibility and commercial viability of producing acetone as the sole fermentation product. It is envisaged that any loss in yield will be compensated for by savings in purification (acetone is highly volatile and relatively easy to recover from the fermentation broth).			

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Neem Biotech Limited	High value chemical extraction from sustainable garlic biomass	£32,378	£24,283
Project description (provided by applicants)			
<p>Neem Biotech is a specialist manufacturer of high value extracts from sustainable botanical sources and has a world-leading position in the isolation and extraction of high value ingredients from UK-sourced garlic (<i>Allium sativum</i>) which it sells in Europe, Asia Pacific and the USA.</p> <p>The company has a successful track record in the development and commercialisation of patented, plant-derived active ingredients that have broad application in industries such as pharmaceuticals, foods and beverages and agrochemicals. In this project, the company will explore the commercial and technical feasibility of developing new product lines that expand its portfolio whilst minimising the environmental footprint of its production processes. These new products have potential applications as high value food ingredients, animal feeds and/or agrochemicals.</p>			