

C-Tech Innovation shares in €7.8m funding to develop 'white biotechnology'

The \$476.13bn global speciality chemicals market is forecast to grow to \$610.14bn by 2016^[1] and the global market for generic drugs projected to reach \$129.3 billion by 2014.^[2] Despite this growth there are still tough challenges ahead for the sector including the rising cost of raw materials, ever tightening regulatory control, and a growing environmental awareness.

Development of new efficient and sustainable ways of manufacturing the products required for the speciality chemicals and drugs markets often involves Biotechnology. Chester-based research and technology company C-Tech Innovation, key players in biotechnological research, is co-ordinating KYROBIO a new project researching the discovery, development and demonstration of manufacturing routes to high value chemicals for pharmaceutical and speciality chemical markets, using biotechnological techniques which will help to address the challenges ahead.

The KRYOBIO project is looking specifically at the development of biocatalysts for use in the industrial synthesis of chiral chemicals, enabling the introduction of new and improved biocatalytic routes for the manufacture of single enantiomer chiral molecules. This will lead to the demonstration of sustainable processes that can be used routinely in economically viable industrial production.

Supported by funding from the European Union's Framework 7 Programme and co-ordinated by C-Tech Innovation the ambitious €7.8M, 4 year project brings together 17 participants from 7 countries. Along with co-ordinating the project the C-Tech Innovation also has a significant technical role in applying flow chemistry methodology to evaluate and demonstrate the biocatalytic processes, and in the application of membrane electrolysis techniques for selective product removal and process enhancement.

Industrial biotechnology could lead to using bio-based chemicals and materials to make a wide range of products and offers the potential to develop new, efficient, and sustainable methods of manufacture.

For more information on C-Tech Innovation or the project call +44 (0) 151 347 2900, email as info@ctechinnovaiton.com or visit www.ctechinnovation.com

For more information on the project please visit the [KYROBIO entry on the CORDIS website](#) or contact Kay.mcclean@ctechinnovation.com

C-Tech Innovation, located at Capenhurst Technology Park, will work alongside Vtu Technologie-Entwicklungsgesellschaft Mbh, Evocatal Gmbh, Bio-Product Bv, Prozomix Limited, Bict Srl, X-Zyme Gmbh, Ingenza Limited, Chemistry Innovation Limited, Acib Gmbh, Clea Technologies Bv, Bioinfobank Institute, Universitaet Graz, Universitaet Stuttgart, The University Of Manchester, Rijksuniversiteit Groningen and Danmarks Tekniske Universitet.



KYROBIO is co-financed by the European Commission under the 7th Framework Programme

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Note to Editors: C-Tech Innovation (www.ctechinnovation.com) is an internationally renowned, independent consultancy, research and technology development company with more than 40 years' experience in providing innovation and business support to companies, universities and government bodies.

Activities range from research to commercialisation of innovative new products and multi-disciplinary consultancy. The company's worldwide customer base ranges from small start-up companies to large multi-nationals. [C-Tech Innovation's](#) facilities and experienced staff provide a complete, flexible service to customers. Fully equipped laboratories and workshops enable experimental and prototype equipment to be designed, constructed and fully proven in complete confidence. We also offer an end-to-end innovation management service designed to support your business through every step of the innovation journey. It helps you to develop sustainably, supports growth and develops new ways of working. It can equip managers with skills necessary to lead, inspire, ensure long term success and develop a clear competitive advantage.

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[1]<http://www.chemicals-technology.com/news/news112581.html>

[2] http://www.imap.com/imap/media/resources/IMAP_PharmaReport_8_272B8752E0FB3.pdf