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FuturEnzyme: TECHNOLOGIES OF THE FUTURE FOR LOW-COST ENZYMES FOR ENVIRONMENTALLY FRIENDLY PRODUCTS

Description

The increasing shift to eco-friendly production impacts the industry of consumer products. The EU-funded FuturEnzyme project will develop advanced innovative solutions to discover, design, optimise and formulate low-cost enzymes for economically viable products in the textile, detergent and cosmetics sectors. A textile containing Elasthane, a liquid detergent, and a hyaluronic acid-based cosmetic, will be targeted.

The project will issue a high-tech enzyme development platform using big biodata mining of both public and internal databases and bio-resources, disruptive machine learning, activity-based bioprospecting, protein engineering, nano-biotechnology, upscale fermentation and downstream processing systems. FuturEnzyme will boost collaboration between academic and industry partners through clusters contributing to innovation capacity and economic development with reduced environmental impacts of the consumer products industry.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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