

3M research aims to revolutionise biotechnology industry

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3M has commissioned the National Institute for Bioprocessing Research and Training (NIBRT) to conduct in-depth research into Emphaze AEX Hybrid Purifier from 3M, which the science-based technology company believes could have a significant impact on the biotechnology industry.

The collaborative project will be split into two studies, each carried out independently by NIBRT, with the results expected to be published early next year.

The first study, which began in January and will be completed in Q3, will examine the effect of chromatographic clarification on Host Cell DNA and the specific type and quantity of Host Cell Proteins removed prior to downstream processing.

The second will build on the findings from the first study and investigate gains in performance from optimising the load conditions for the device.

The Emphaze AEX Hybrid Purifier, part of 3M's Emphaze platform, combines chromatographic functionality with a filter matrix in a single use plug and play device. The unique structure allows the device to be deployed during the clarification step whilst significantly reducing soluble impurities. The aim of the research is to qualify and quantify the impact on the downstream process in terms of complexity and cost.

Dr Jonathan Bones, Principal Investigator at NIBRT, believes the research will be vitally important for highlighting the value of Emphaze AEX Hybrid Purifier from 3M to the biotechnology industry. He said: "I am excited to be working with 3M on this project to demonstrate the beneficial aspects of the Emphaze AEX Hybrid Purifier. The data from this project will be highly impactful and will empower the industry to confidently implement the technology and increase efficiency in purification processes."

Hani El-Sabbahy PhD, 3M Biopharmaceutical Application Engineering Specialist, believes the research will yield some powerful results.

Hani commented "3M is dedicated to advancing technologies and improving efficiencies in the biopharmaceutical industry. We believe that Emphaze AEX Hybrid Purifier has the potential to significantly improve the manufacture of therapeutic proteins.

"The NIBRT collaboration facilitates understanding of the key challenges faced by industry and how novel technology can be applied to resolve these."

Ends.

Notes to editors.

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About

3M

At 3M, we apply science in collaborative ways to improve lives daily. With \$30 billion in sales, our 90,000 employees connect with customers all around the world. The UK and Ireland is home to one of the largest 3M subsidiaries outside the USA, employing 2,900 people across 20 locations, including eight manufacturing sites. Products manufactured in the UK include coated abrasives, personal safety equipment, adhesive tapes, industrial microbiology products, drug delivery systems and high-performance coatings. Learn more about 3M's creative solutions to the world's problems at www.3M.co.uk or follow @3M_UK on Twitter.

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About

NIBRT

The National Institute for Bioprocessing Research and Training (NIBRT) is a global centre of excellence for training and research in biopharmaceutical manufacturing. NIBRT is located in a world class facility in Dublin, Ireland. NIBRT's mission is to support the growth and development of all aspects of the biopharmaceutical industry by becoming a global leader in biopharmaceutical manufacturing research, education and training. For further information, please visit www.nibrt.ie.

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