



PRESS RELEASE

Sustainable High Efficiency Hydrogenation Biocatalysis

UK-based **HydRegen** are using a **DrySyn OCTO reaction station** from **Asynt** to help develop a **next generation biocatalyst system** that enables cleaner, safer, and more efficient chemical manufacture.

HydRegen (www.hydregenoxford.com) spun-out from the Vincent Group in the Dept. of Chemistry at the University of Oxford in March 2021. They are developing novel and sustainable strategies for using the growing toolbox of NADH-dependent redox biocatalysts in chemical synthesis. Their system allows chemical manufacturing to harness the precision of biology with the efficiency of catalytic hydrogenation, allowing you to replace your heavy metal catalyst for highly selective hydrogenation reactions or decarbonise existing redox biocatalysis processes, all while operating within existing continuous flow hydrogenation reactors.

Dr Sarah Cleary, Chief Scientific Officer at HydRegen commented "We invested in a DrySyn OCTO because I had previously used the system and loved how it gave me the ability to simultaneously screen eight separate reaction variations under a controlled atmosphere, temperature, and means of agitation, thus advancing the process of biocatalyst development in a reproducible fashion. The DrySyn OCTO installed at HydRegen has been an incredibly useful tool for us. Because we're using enzymes and don't need pressurised hydrogen, the OCTO is perfect for screening catalysts and reaction parameters.

It has definitely helped expedite our results and we are confident in those results thanks to the ability to carry out processes in triplicate under identical conditions in the OCTO." Dr Cleary added "Because we didn't want to use hydrogen cylinders in our lab, for various safety reasons, being able to hook up our DrySyn OCTO to a benchtop hydrogen generator also supplied by Asynt was very convenient. It's been super simple to set up and to use and it's small footprint means it doesn't take too much valuable space in our fume hood!".

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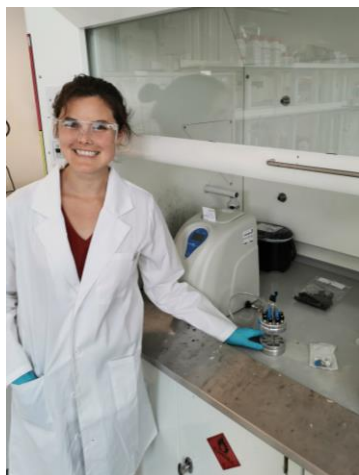
For further information on the DrySyn OCTO reaction station please visit <https://www.asynt.com/product/drysyn-octo-reaction-station/> or contact Asynt on +44-1638-781709 / enquiries@asynt.com.

Asynt is a leading supplier of affordable products, consumables, and services for chemists in industry and academia. With a sales team of trained chemists, Asynt can draw upon their in-depth application knowledge to provide a high level of customer support for its DrySyn Heating Blocks, CondenSyn waterless condensers, Turn-Key solutions for Controlled Lab Reactors, Synthesis Tools, Evaporators, Temperature Control Systems, Vacuum Pumps and Lab Safety Equipment.

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Illustrative images:



Caption: Dr Sarah Cleary with DrySyn OCTO / Hydrogen generator set-up at the HydRegen lab (Oxfordshire, UK).

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Caption: DrySyn OCTO reaction station

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