

Innoture Ltd

Innoture Ltd Knowledge Transfer Partnership

Biopolymers are polymers that occur in nature; they are large molecules that have many uses as materials in plastic packaging and adhesive applications.

In a Welsh Government Knowledge Transfer Partnership (sKTP) with Innoture Ltd research is seeking to develop these biopolymers for medical products such as micro-needles.

Innoture has assembled a team of commercial and academic expertise to deliver next generation transdermal devices for use in multiple applications within drug delivery and diagnostics. It holds worldwide patents enabling the company to adopt a unique position in the manufacture, development and commercialisation of microneedle technologies.



Chris Williams, Director presenting at BEACON Climate Change Breakfast 2015

Research and Development is based at the Institute of Life Sciences at Swansea University, bringing together the multidisciplinary expertise to create and analyse microneedle enhanced devices based on Innoture's patents.

Microneedles have been clinically proven to effectively transport large molecule drugs or active pharmaceutical ingredients (APIs) and vaccines via, but not restricted to, transdermal delivery.

Knowledge Transfer Partnership (short)

Innoture's patented microneedles offer extreme flexibility compared with standard and traditional microneedle technologies and processes, allowing layering of compounds, flexibility of substrates and dynamic mass manufacture that is cost effective.

Microneedles are patches of tiny pillars, which deliver therapies via the dermis of the skin. They are very effective and can speed up the delivery of drugs, and often are able to avoid many of the side



effects of intravenous injections.

The 12 month sKTP project has enabled the BioComposites Centre at Bangor University to collaborate with Innoture and continue their research in the application of biopolymers in medical products.

To help with the research, mature graduate Alan Hughes has been employed on the project based at the BioComposites Centre. The sKTP funding has given Alan his first real science position following his graduation in 2014 with a PhD in Chemistry at Bangor University.

Summary

Project Lead:

Dr Rob Elias

r.m.elias@bangor.ac.uk

Partner Institution:

Bangor University

Partner Company:

Innoture Ltd

Sponsors:

Knowledge Transfer Partnership (sKTP)

Welsh Government

Project Value:

Grant £36,338

Company Contribution £12,112

Total Project Value £48,450

+1 Employed

Project Duration:

14 months