

# Press release: Intellegens, CPI announce oligonucleotides project

On August 30, 2023 in Biologics, Drug Discovery, Life Science, Manufacturing

# Intellegens and CPI awarded £1.6m Innovate UK grant to ac therapeutics with machine learning

- Programme validates utility of Intellegens' Alchemite™ machine learning technology
- Two-year project supported by six leading pharmaceutical research organisations

Cambridge, UK – 30 August 2023 – Intellegens, a company applying machine learning (I has secured a £1.6m grant from Innovate UK, part of UK Research and Innovation (UKRI) In collaboration with the Centre for Process Innovation (CPI), the two-year project will august a tool to enhance productivity and yields of oligonucleotide therapeutic manufacture t control strategies.





Offering high specificity with the ability to treat an extremely broad range of diseases, olipharmaceutical research. However, their full potential is yet to be realised, as manufactured number of specialist companies. Therapeutic oligonucleotides are large, complex molecular significant purification and analysis steps. The workflow presents many challenges, cons

Intellegens' Alchemite is a set of advanced ML artificial intelligence algorithms and tools materials, formulations, and processes. The novel adaptation of machine learning can extypical of experimental programmes and chemical and biological processes. The tool ha across multiple industries, including modelling small-molecule drug pharmacokinetics w novel additive manufacturing processes with collaborators including Boeing. The results increased manufacturing efficiency.

The collaboration will validate Alchemite as a tool to improve productivity in oligonucleot Through automated data processing and process modelling, Alchemite will be used for a and subsequent optimisation of quality control strategies and process parameters. The properties of the process parameters and state-of-manufacturing Innovation Centre (MMIC), providing world-leading expertise and state-of-

Ben Pellegrini, CEO, Intellegens, said: "The potential of oligonucleotide therapeutics to tu unfortunately held back by manufacturing capabilities. We are extremely pleased to annotand experts from across the life sciences to apply Alchemite to improve manufacturing processing to the science of the scienc

Dave Tudor, Managing Director of Pharmaceuticals at CPI, said: "We are really excited to potential of oligonucleotides to treat a variety of conditions. Oligonucleotides are comple costly, meaning very few companies are able to harness this potentially life-saving and lift Manufacturing Innovation Centre, we will look to bring together a community of experts of the development of the Alchemite tools, reducing development times and improving mar

Ben Pellegrini, CEO, Intellege



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### **About Intellegens**

Intellegens enables its customers to apply advanced machine learning methods through chemicals, manufacturing, and beyond. The company's mission is to be the leading mach problems in industrial R&D and manufacturing processes. Alchemite™ originated at the L Intellegens, in close collaboration with a growing community of customer organisations. manufacturing, aerospace, batteries, biotechnology, ceramics, chemical processes, completed and beverage, formulated products, paints, plastics, and printing technology.

#### **About CPI**

CPI catalyses the adoption of advanced technologies and manufacturing solutions to be

We're a pioneering social enterprise that accelerates the development, scale-up and com HealthTech, materials, and pharma innovations. Through our incredible innovation expert healthcare and drive towards a sustainable future.

As a trusted partner of industry, academia, government, entrepreneurs and the investmer ecosystem to make great ideas and inventions a reality. We believe by working together value Manufacturing Catapult, we facilitate access to world-class organisations to delive

Creating lasting global impact from the North of England and Scotland, we invest in peop circular supply chains and make our world a better place.

## **About pharma at CPI**

Developing next-generation medicine manufacturing innovations to deliver tomorrow's va

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alternative drug delivery systems.

Let's innovate together: https://www.uk-cpi.com/pharma

#### **About Innovate UK**

Innovate UK drives productivity and economic growth by supporting businesses to develope the UK's world-class research base. They connect businesses to the partners, customers commercially successful products and services, and business growth.

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