

Advanced Therapies

The UK has built end-to-end infrastructure to support advanced therapy innovation, from discovery and development through to manufacturing and delivery to patients.

The UK offers industry:



Dedicated infrastructure for research and development, early clinical evaluation; and GMP manufacturing



Access to skilled talent, an essential advantage in a fast-moving and complex new industry



A streamlined and forward-thinking regulatory system, with simplified entry and early engagement



Support for delivery of product to patients, from manufacturing to global logistics to NHS clinical use.



Government commitment to the growth of the sector, underpinned by funding and a sustained partnership with industry

Industry Cluster: The UK has the largest advanced therapies community in Europe; there are 70 companies developing ATMPs in the UK (56 are UK headquartered), and 26 manufacturing facilities in 2019.

Industry Innovation: The UK accounts for over 12% of global cell and gene therapy clinical trials. International companies are sponsoring the majority of the UK commercial clinical trials which account for 77% of the total 127 ongoing trials.

Talented Workforce: The UK cell and gene therapy industry reportedly currently supports over 3,000 jobs. By 2035, the UK cell and gene therapy industry could be worth £10 billion and employ 18,000 people.

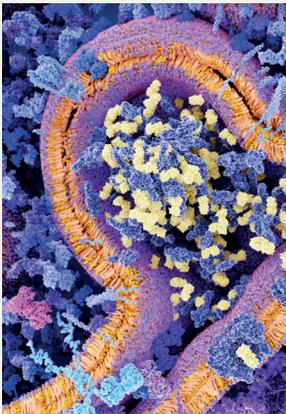
Supply Chain: The UK has an integrated supply chain of contract research organisations and manufacturers, advanced technologies such as trace and trace and end-to-end supply chain management. Three Advanced Therapy Treatment Centres operating in the NHS are working with industry to support the routine clinical delivery of advanced therapies to patients.

ATMP-ready NHS: The National Health Service is the first health system in Europe to agree access to CAR-T treatments, achieved through the fastest product approvals in the NHS's 70-year history. 9 NHS hospitals provide access to CAR-T treatments for children, young people and adults

Government Investment: Since 2009, there has been over £300 million of government investment committed to support commercial research and development, via innovation grants, the expansion of the Cell and Gene Therapy Catapult and establishing the Nucleic Acid Therapy Accelerator.

“The UK offers a great environment for building a leading global company in the cell and gene therapy space”

**Christian Itin,
Chairman and CEO Autolus**



Oxford Biomedica and Novartis

Oxford Biomedica has the first commercially approved lentiviral based gene delivery system and helped Novartis deliver the first FDA and EMA approved CAR-T cell therapy, Kymriah®.

Novartis used Oxford Biomedica's LentiVector® platform to develop their CAR-T therapy for acute lymphoblastic leukaemia. Kymriah® was approved by the European Commission in August 2018 and a commercial deal with NHS England was approved less than 10 days later, representing one of the fastest funding approvals in the 70-year history of the NHS.

Several hundreds of patients globally have now received treatment with Novartis' CAR-T therapies that use Oxford Biomedica's lentiviral vectors.

THE UK HAS THE LARGEST

advanced therapies community in Europe

9 NHS HOSPITALS

provide access to CAR-T treatments

OVER 3,000 JOBS SUPPORTED

by the UK cell and gene therapy industry

£300M OF GOVERNMENT INVESTMENT

committed to support commercial research of cell and gene therapies



**Department for
International Trade**

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