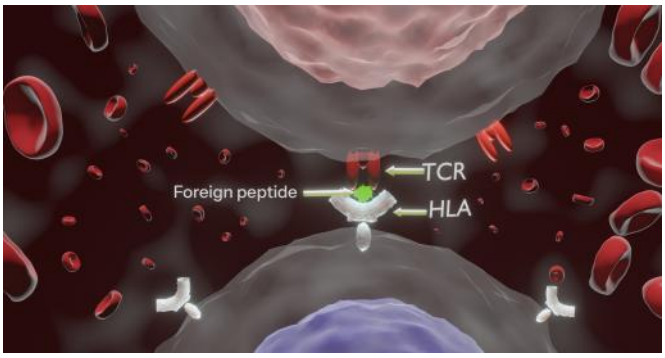
PROJECT NUMBER

17809, 24279

Next-generation HIV immunotherapy: TCR technology

Our breakthrough technology harnesses the body’s immune power to fight HIV at its source.

Applications: T cell receptor (TCR) therapy, Engineered T cells, HLA-E restricted immunity, HIV-1 treatment



Features	Benefits
Smart HIV targeting	Our T-cell receptors (TCRs) are designed to recognise hidden HIV fragments presented by a unique immune molecule (HLA-E). This helps overcome HIV’s ability to hide and mutate, offering broader protection across patients
Precision-engineered receptors	Each TCR is built from well-defined genetic sequences, ensuring consistent quality, predictable performance, and easier regulatory approval

Features	Benefits
Gene-based delivery	We use advanced DNA or RNA vectors to insert these TCRs into immune cells. This allows efficient, scalable manufacturing of patient-ready cell therapies
Engineered immune cells	T cells equipped with our TCRs can seek out and destroy HIV-infected cells - potentially leading to long-term viral control or even functional cure
Transformative HIV treatment potential	Designed to work alongside or beyond antiretroviral therapy (ART), this approach could redefine how HIV is managed and move us closer to ending the epidemic

Awaiting patent and Available for

- Co-development
- Consulting
- Licensing

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

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