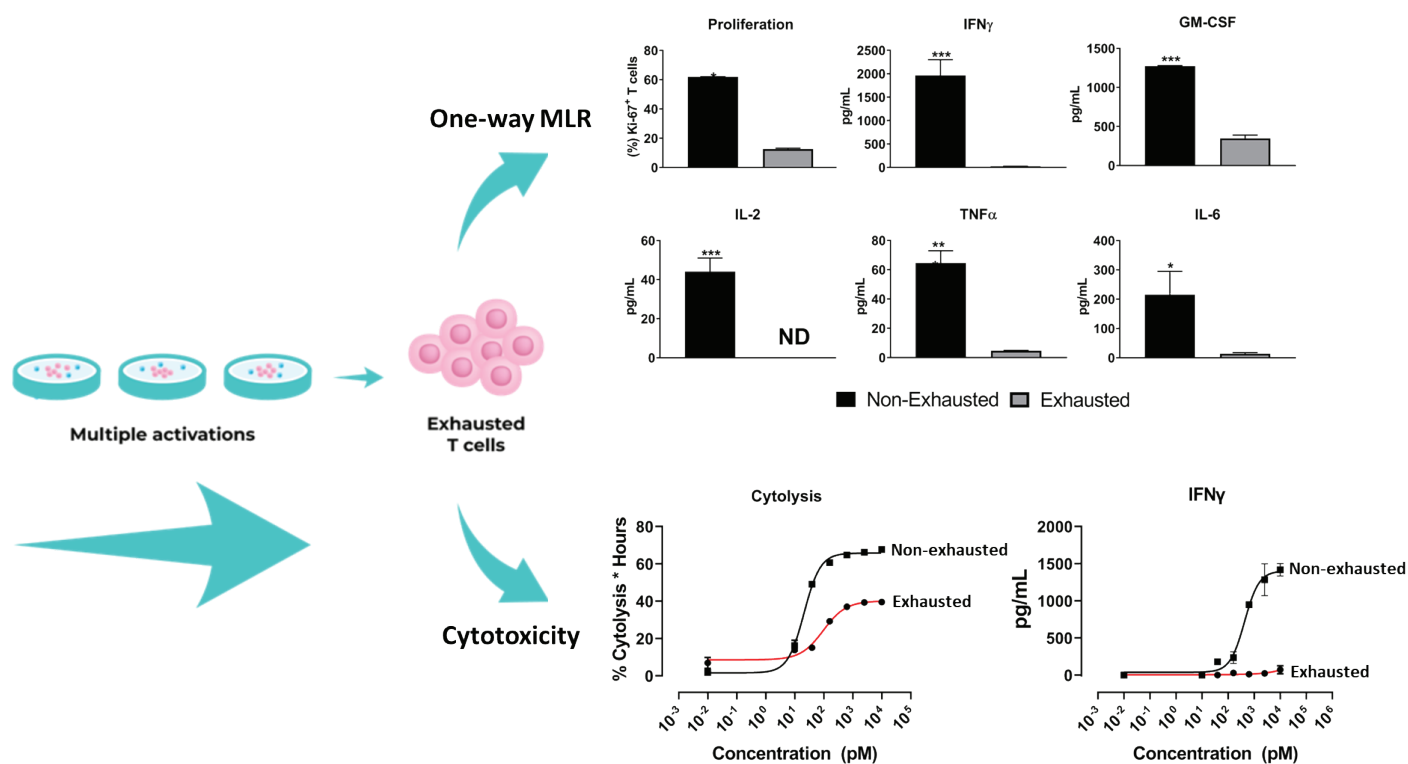


Discover our *in vitro* T cell exhaustion model

Our assay employs **exhausted human T cells** to recapitulate dysfunctional T cell responses seen in the tumour microenvironment (TME) or chronic viral infection. The phenotype and functionality of the exhausted T cells can be **recovered by checkpoint blockade** and compared side by side with your therapeutic candidate. Boost your data package by adapting our assay to answer your questions.

Assay set-up



The model is a **medium throughput, flexible assay set-up** ideal for MoA assessment of:

- Checkpoint inhibitors
- Bispecifics / T cell engagers
- Kinase inhibitors
- Co-stimulation agonists
- Modulators of T cell signalling and/or function
- Immunometabolism modulators

Why choose the RoukenBio *in vitro* T cell exhaustion model?



Nivolumab benchmarked assay

Checkpoint inhibition reinvigorates exhausted T cells in a one-way MLR. Nivolumab is used in every run as an internal benchmark control. PD-1 blockade exhibits successful functional rescue of T cell proliferation and cytokine production.



Pre-screened human T cell donors

To maximise assay success, we screen T cell donors in advance, at no additional cost to you, to guarantee alloreactive MLR pairings that can be enhanced by Nivolumab (PD-1 inhibition). Where functional cytotoxicity assessments are required, we use historical data to guide donor T cell selection.



High content assay readouts

Phenotype and function are measured using a combination of multi-parameter flow cytometry and multiplex cytokine readouts. 96-well plate formats provide a medium throughput assay with up to **720 testing wells per run**. Where assay conditions permit, there is even the option to combine these with label free kinetic cytotoxicity measurements.

Download our slide deck to discovery more about our T cell exhaustion model.



RoukenBio - The CRO redefined

Backed by our brilliant minds, we have turned the traditional CRO model on its head, by fostering a collaborative and personalised approach. Our mission is simple:

Solve problems. Deliver quality data. Propel your drug discovery breakthroughs.

United by a passion to make sense of complexities and overcome challenges, we apply our specialised knowledge to big-picture thinking. We will explore every option to deliver over and above for your project.

We are thought leaders with a deep understanding of immunology, bioassays, molecular biology and a track record of groundbreaking discoveries and novel cell-based tools.