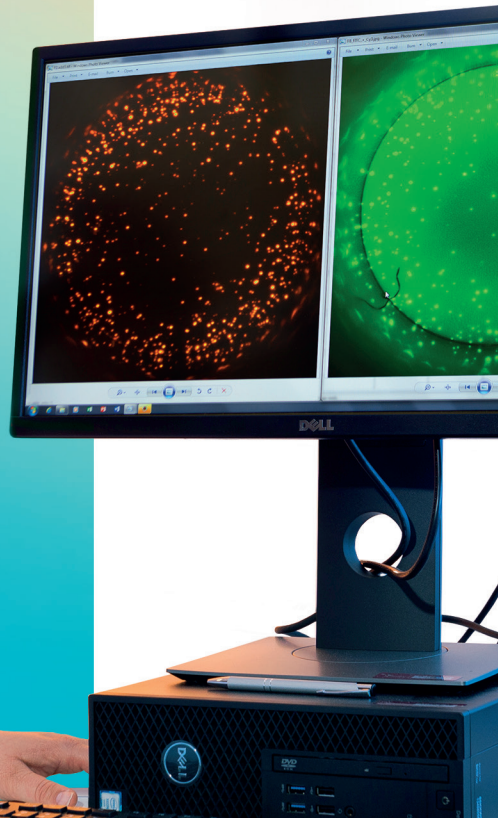


Antigen-specific CD8+ T cell epitope discovery and immunomonitoring

Cellular products & services

We are highly specialized
in hematology, oncology,
immunology and
transfusion medicine.

- Biomarkers
- Cellular products & services
- Antibodies



For Life.

The Intelligent Research Organisation for Bridging Innovations

What defines us:

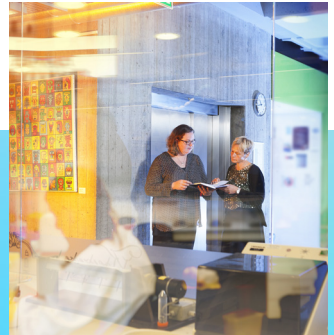
The blood experts



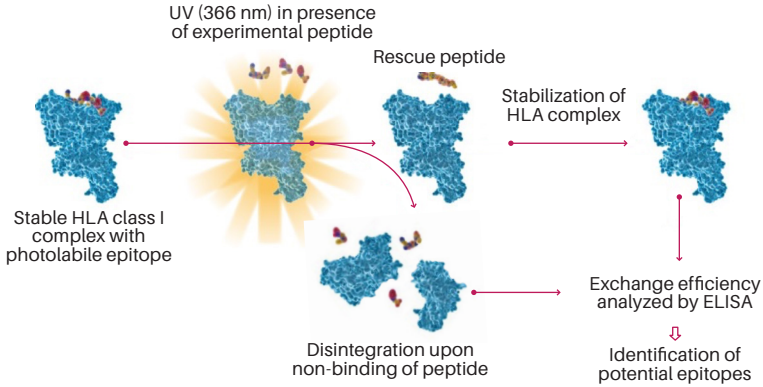
Top level expertise



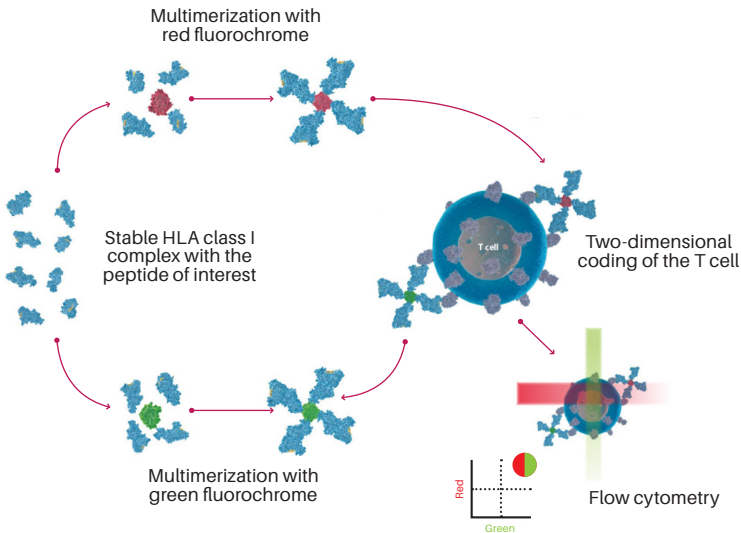
Focus on professionalism



UV-mediated peptide exchange in HLA class I complexes*



HLA tetramer combinatorial coding*



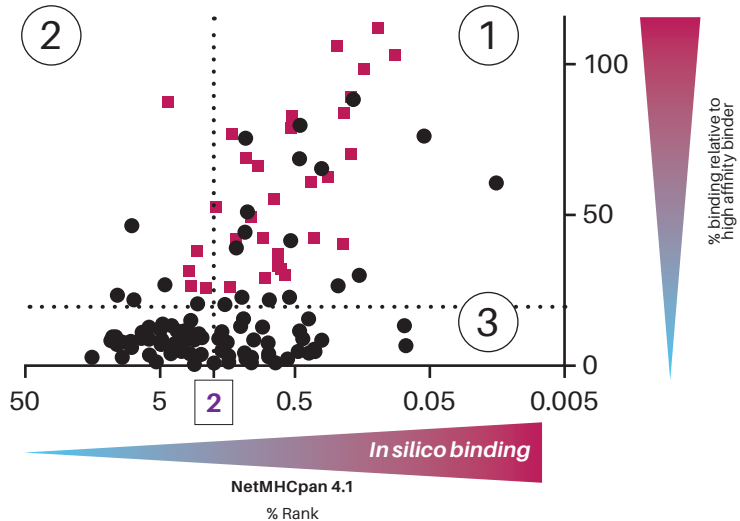
Discovery and selection of Hepatitis B Virus-derived T Cell epitopes for global Immunotherapy

Hepatitis B virus

②

Compilation:

HLA-A*01:01
HLA-A*02:01
HLA-A*03:01
HLA-A*11:01
HLA-A*24:02
HLA-B*07:02
HLA-B*08:01

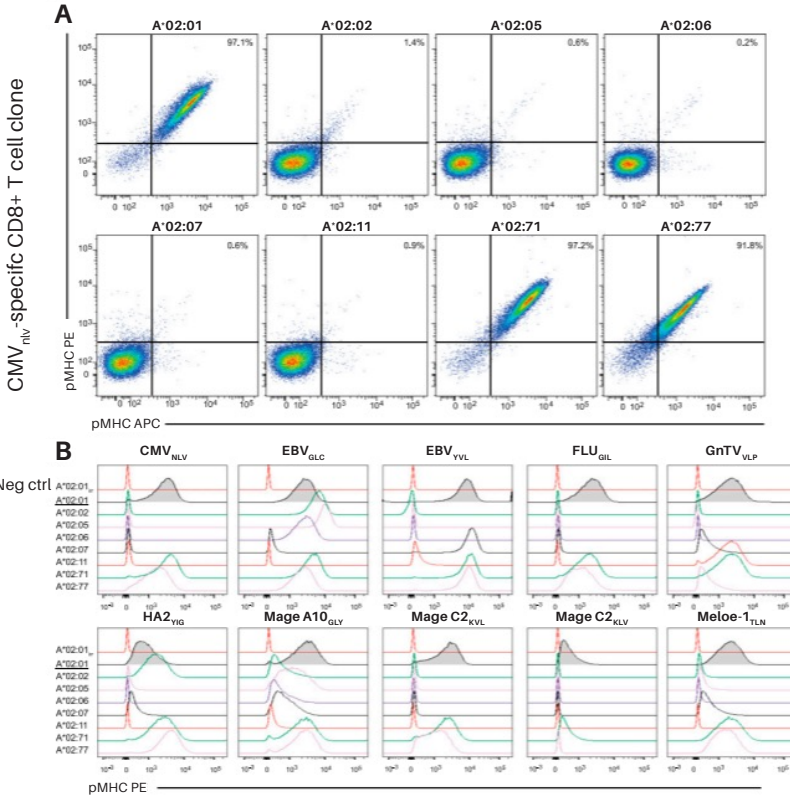


Pink squares indicate pHLA validated in a peptide stimulation assay (IFN γ induction)

1. NetMHCpan cannot discriminate well between strong and weak binders
2. ~21% of in silico-predicted non-binders do bind
3. ~16% of in silico-predicted binders do not bind

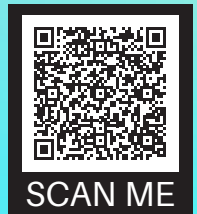


Strong effect of minor sequence variation on pMHC-based personalized immunomonitoring



pMHC multimer staining of HLA-A*02:01-restricted T cell clones is highly influenced by HLA-A*02 micropolymorphisms

T cell responses can be underestimated or even overlooked when using subtype-mismatched pMHC multimer collections



Cellular products & services

Sanquin Pharma & Biotech Services combines specialized, top-level scientific expertise and access to biomaterials. This offers you the benefit of a professional partner who can bridge the gap between promising early discoveries and validated drug candidate leads.

Bridging Innovations



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