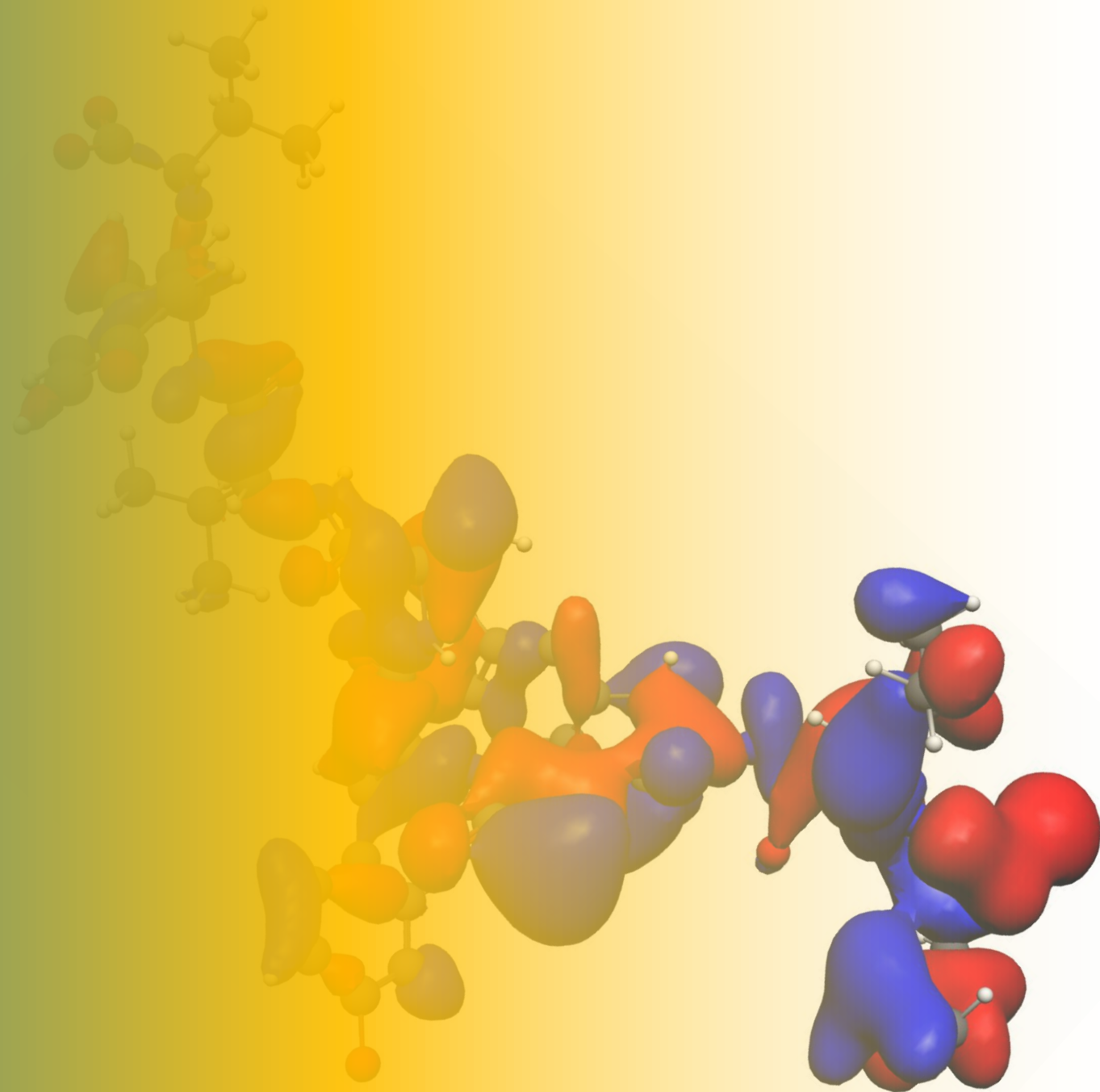


# BioRank™: Deterministic Shift of TCR Functional Outcome

Molecular Modelling Laboratory GmbH

Chamerstrasse 176 · CH-6300 Zug · Switzerland  
info@mmlpi.ch



## What is BioRank™ ?

High-throughput directed evolution in-silico framework for TCR engineering/optimization, addressing the epistasis problem from first-principles.

BioRank™ operates directly at the pMHC–TCR structural level and is designed to optimize TCR sequence for neoantigen recognition (currently HLA Class I, with straightforward extension to Class II and antibody–ligand systems).

BioRank™ does not rely on training datasets, enabling systematic exploration of sequence space with explicit control over binding and activation-relevant features.

# Deterministic Shift of TCR Functional Outcome

