

Special Issue

Challenges in Antigen Identification—HLA Peptides and TCR Receptors

Message from the Guest Editor

Significant progress in biomedical sciences and technology breakthroughs which has occurred in recent decades has enabled scientists to accelerate research and perform routine analysis using cutting-edge technologies (whole genome sequencing, transcriptome sequencing, single cell analysis (genomic techniques), proteome analysis (mass spectrometry), and phenotypic screens, i.e., immune cell typing (CyTOF/Flow cytometry) within days. The accompanying development of multidimensional (multi-omics) data integration using bioinformatics and systems biology tools enables the efficient mining of these information-rich datasets. With these tools, we can successfully expedite personalized medicine and targeted therapies based on the integration of a substantial set of patient-specific data.

This Special Issue, “Challenges in Antigen Identification—HLA Peptides and TCR Receptors”, will cover a selection of recent research topics and current review articles in the area of HLA peptide identification approaches, peptide vaccines, and specific TCR identification.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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