Hla Typing Epitopes

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Hla Typing Epitopes
Epitopes and a Historical Perspective of Serological HLA Typing HLA emerged from observations by a few investigators including Rose Payne, Jon van Rood, and Jean Dausset who during the early 1960s studied sera with leukocyte antibodies in patients with non-hemolytic transfusion reactions and in women after pregnancies (5).

Reflections on HLA Epitope-Based Matching for Transplantation
Describing HLA antigens as a series of antibody targets, or epitopes, rather than based on broad seroreactivity patterns or precise amino acid sequences may provide a more practical and clinically relevant system to help avoid antibody-mediated rejection, reduce sensitization, and select the most appropriate organs in the setting of pre-existing alloantibodies.

HLA Epitope Matching in Kidney Transplantation: An ...
cause of late graft loss. Describing HLA antigens as a series of antibody targets, or epitopes, rather than based on broad seroreactivity patterns or precise amino acid sequences may provide a more practical and clinically relevant system to help avoid antibody-mediated rejection, reduce sensitization, and

HLA Epitope Matching in Kidney Transplantation: An ...
HLAMatchmaker is a structurally based algorithm that considers HLA alleles as strings of distinct molecular configurations that can be recognized by HLA antibodies important in transplantation. It is the ONLY algorithm based on experimentally antibody-verified epitopes defined by polymorphic amino acids in configurations referred to as eplets.

HLAMatchmaker - epitopes
Epitopes and a Historical Perspective of Serological HLA Typing HLA emerged from observations by a few investigators including Rose Payne, Jon van Rood, and Jean Dausset who during the early 1960s studied sera with leukocyte antibodies in patients with non-hemolytic transfusion reactions and in women after pregnancies (5).

Frontiers | Reflections on HLA Epitope-Based Matching for ...
HLA laboratories are receiving requests from physicians to perform "epitope matching," and there are even suggestions to implement "epitope matching" in UNOS organ allocation algorithm.

HLA-Epitope Matching or Eplet Risk Stratification: The ...
HLA-B*27 typing. HLA-B*27 typing was ... Thus we chose salmonella OMP proteins to identify their immunogenic epitopes in patients with ReA/uSpA. HLA-B*27:05 was selected for peptide restriction because this subtype is the ancestor allele 20 and had good association with spondyloarthropathy in our cohort 6, ...

Identification of Immunogenic HLA-B*27:05 Binding Peptides ...
However, when the analyses were limited to only clinical malaria episodes (n = 151), the epitope SPMTLDEMRHFY, detected by the HLA genotype HLA-A*0101, which is in a very polymorphic region of the ama1 gene (the cluster 1 loop region), was differentially distributed between the two treatment arms.

Epitope-based sieve analysis of Plasmodium falciparum ...
Similarly, we determine the HLA Class II neo-epitopes for these nsSNVs using NetMHCIIpan v3.0 and the cell line HLA-DRB1 type. If a mutation gives rise to multiple equally prioritized neo-antigens (that is, they have the same minimal percentile rank), all results are reported.

TCLP: an online cancer cell line catalogue integrating HLA ...
HLA typing has led to some improvement and acceleration in the diagnosis of celiac disease and type 1 diabetes; however, for DQ2 typing to be useful, it requires either high-resolution B1*typing (resolving *02:01 from *02:02), DQA1*typing, or DR serotyping. Current serotyping can resolve, in one step, DQ8.

Human leukocyte antigen - Wikipedia
Abstract Predictions of epitopes presented by class II human leukocyte antigen molecules (HLA-II) have limited accuracy, restricting vaccine and therapy design. Here we combined unbiased mass...

Robust prediction of HLA class II epitopes by deep motif ...
Objective: The main genetic risk factor for rheumatoid arthritis (RA), the HLA region, has been known for 25 years. Previous research has demonstrated, within the RA population, an association between HLA-DRB1 alleles carrying the shared epitope (SE) and antibodies directed against cyclic citrullinated peptides (anti-CCP antibodies).

Refining the complex rheumatoid arthritis phenotype based ...
Many leaders in the field have expressed the opinion that high-resolution HLA typing at the allele level provides more accurate information about donor-recipient compatibility than HLA typing at the antigen level. 19,20 Each HLA allele can be considered as a string of epitopes and matching at the epitope level can be done aligning the eplet string of each donor allele with the eplet strings of recipient alleles.

Are We Ready for Epitope-Based HLA Matching in Clinical ...
threshold. HLA B*801 recognizes epitopes from 21 isolates. HLA A*301 and A*2402 recognize epitopes from all 24 isolates. In total five different epitopes were identified, with variations within them according to isolates. We hypothetically divided these epitopes as shown in table 2. Figure 4 shows 3D structure generation of peptide

Hepatitis C Virus Subtype 3a Envelope Protein 1 Binding ...
If the divergent association with the disease among HLA-B27 subtypes correlates with their specificity in presenting self-epitopes, a preliminary approach to the question could be to analyze the T-cell response to the same HLA-B27–specific epitope in the two genetic contexts, B*2705 and B*2709.

JCI - CD8+ T-cell autoreactivity to an HLA-B27–restricted ...
HLA antigens contain strings of polymorphic sites (epitopes) that serve as target regions for antibody binding (see image below). 3D representations of HLA-A*02 showing the polymorphic regions accessible for antibody binding. β2-microglobulin (red), HLA class I α-chain (grey) with epitopes highlighted in blue.

HLA Epitope Matching for Mere Mortals – AJKD Blog
HLA molecules consist of a set of polymorphic amino acid configurations, which are often referred to as epitopes. Although individual epitopes can be shared between several HLA alleles, each individual HLA allele carries a unique set of epitopes. 1

Not all HLA epitope mismatches are equal - Kidney ...
Although individual epitopes can be shared between several HLA alleles, each individual HLA allele carries a unique set of epitopes. 1 Given that mismatched amino acids on HLA molecules can be the trigger of alloantibody formation in the setting of organ transplantation, matching on the amino acid or epitope level may reduce the incidence of DSA formation.

Not all HLA epitope mismatches are equal - ScienceDirect
The HLA epitopes most strongly associated with susceptibility for disease were DQB1 A 57, DQA1 V 76, DRB1 H 13, and DRB1 K 71, whereas DPB1 YD 9,57, HLA-B C 67, and HLA-C YY 9,116 were more weakly associated. The HLA epitopes strongly associated with resistance were DQB1 D 57, DQA1 Y 80, DRB1 R 13, and DRB1 A 71.