

BACKGROUND

Allorecognition of Transplants Leads to Poor Outcomes



From Callemeyn et al, 2023

DPB1 Harbors an Immunogenic Polymorphism at Codon 96

Immunogenicity is well established for polymorphisms in Exon 2 of DPB1

Exon 3 polymorphisms are understudied and not captured by all HLA testing platforms

Codon 96 is in Exon 3 and harbors an AAG>AGG single-nucleotide polymorphism (SNP) substituting Arginine (R) for Lysine (K)

The substitution yields structurally distinct 96K/R epitopes that homozygous transplant recipients can form alloantibodies against

Alloantibodies against 96K/R are detectable by single antigen beads in sera from posttransplant patients

Important to know donor alleles in the context of a patient's antibodies to 96K/R



AIM

Determine whether HLA sequencing using the CareDX short read and GenDx long read platforms resolves 96K/R polymorphism in DPB1.

Resolving a Relevant DPB1 Exon 3 Polymorphism by HLA Sequencing Lalit Patel, MD, PhD; Zuleikha Shah; Anna B. Morris, PhD; Robert Achram, MD; Elizabet

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Poster #702

NOTHING TO DISCLOSE The authors of this abstract have that they have no interest that relate to e content of this abstract.

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