Figure S1. Receiver operating characteristic curves for *dn*DSA development are shown for HLA-DR$\beta_{1/3/4/5}$ and HLA-DQ$_{\alpha 1\beta 1}$ with each of the three molecular mismatch methods.

Figure S1. Receiver Operating Characteristic Curves

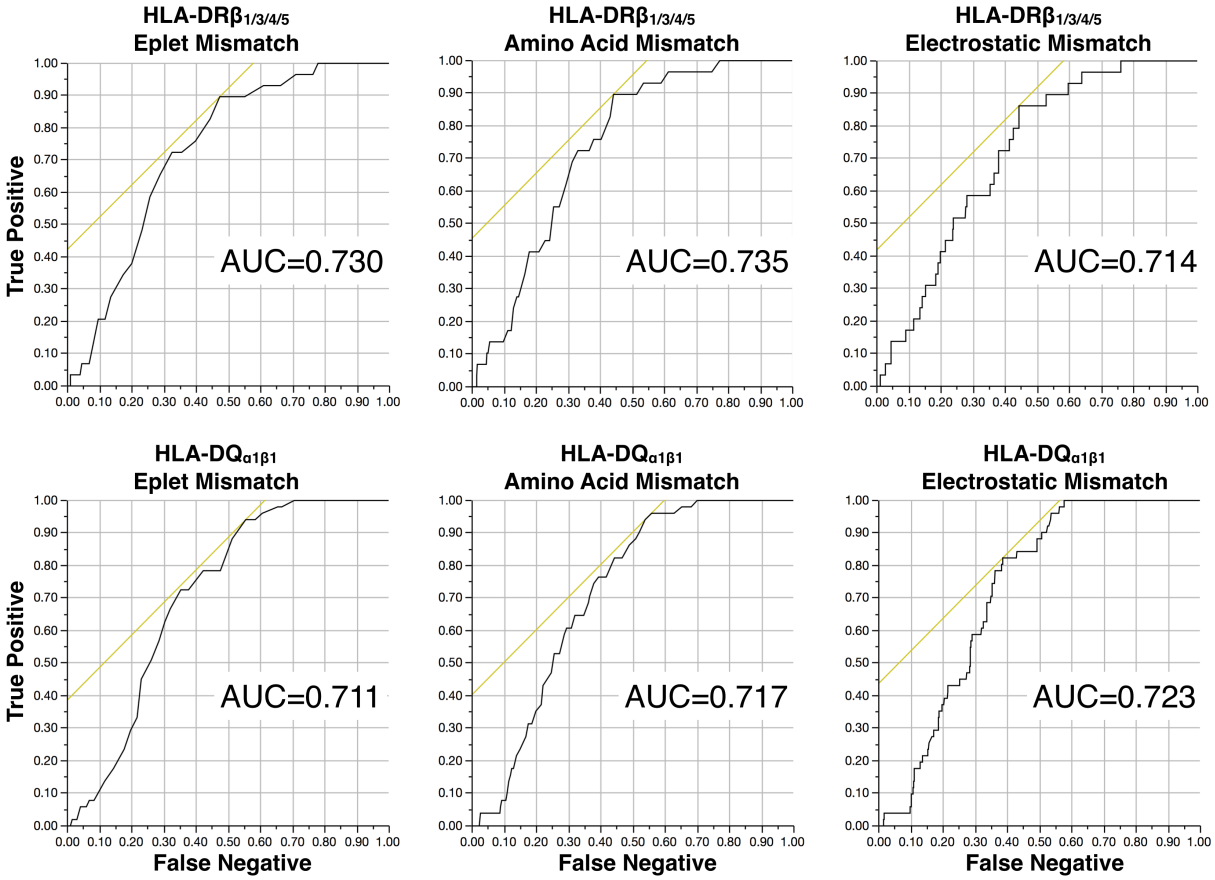


Table S1. Univariate Molecular Mismatch Scores Predict *dn*DSA Free Survival Posttransplant

A. HLA-DRβ$_{1/3/4/5}$ *dn*DSA Free Survival

	Range	Hazard Ratio	p value
HLA-DRβ$_{1/3/4/5}$ Eplet Mismatch (per 10 mismatches)	0-41	2.51 (1.71-3.64)	<0.0001
HLA-DRβ$_{1/3/4/5}$ Amino Acid Mismatch (per 10 mismatches)	0-82	1.49 (1.25-1.76)	<0.0001
HLA-DRβ$_{1/3/4/5}$ Electrostatic Mismatch (per 10 mismatches)	0-147	1.23 (1.11-1.35)	<0.0001

B. HLA-DQ$_{α1β1}$ *dn*DSA Free Survival

	Range	Hazard Ratio	p value
HLA-DQ$_{α1β1}$ Eplet Mismatch (per 10 mismatches)	0-42	1.98 (1.53-2.58)	<0.0001
HLA-DQ$_{α1β1}$ Amino Acid Mismatch (per 10 mismatches)	0-97	1.24 (1.12-1.37)	<0.0001
HLA-DQ$_{α1β1}$ Electrostatic Mismatch (per 10 mismatches)	1-164	1.14 (1.07-1.21)	<0.0001