HLA and Disease Associations

The classic HLA links asked in immunology and rheumatology

B27 — **HLA-B27**
seronegative spondyloarthropathies (ankylosing spondylitis, reactive arthritis) · anterior uveitis

DR3 DR4 — **HLA-DR3 and DR4**
autoimmunity: type 1 diabetes, Addison, Graves · together, the highest risk of type 1 diabetes

DR2 — **HLA-DR2**
multiple sclerosis and narcolepsy · protective against type 1 diabetes

DQ2 DQ8 — **HLA-DQ2 / DQ8**
celiac disease · their absence makes the diagnosis very unlikely

B57 — **HLA-B57:01**
abacavir hypersensitivity · genotype before prescribing

B51 — **HLA-B51**
Behçet disease

A3 Cw6 — **HLA-A3 and HLA-Cw6**
A3: hemochromatosis · Cw6: psoriasis

Spine + uveitis
HLA-B27

The trap
DR2 is protective in type 1 diabetes

Before abacavir
Test HLA-B57:01

Pharmacogenetics: HLA-B57:01 (abacavir) and HLA-B*15:02 (Stevens-Johnson syndrome with carbamazepine) prevent severe reactions