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Structure and function studies of histocompatibility antigens [Abstract only.]

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The three-dimensional structure of class I histocompatibility antigens HLA-A2 and HLA-A28 have been determined by X-ray crystallography at 3.5 Å.†

The structures are currently being crystallographically refined to 2.6 Å resolution. Refinement is revealing the details of the putative foreign-antigen binding cleft and the extra electron density found in the site.

A hypothetical model of the foreign antigen-binding site of class II histocompatibility antigens has been developed, which may be useful in designing experiments to understand peptide-binding results.

$$\dagger 1 \text{ \AA} = 10^{-10} \text{ m} = 10^{-1} \text{ nm.}$$