

**Developing and exploring a novel software application for
understanding HLA-type-associated disease risk
for COVID-19**

HLA (human MHC) polymorphism



- 'binding groove'
- 'target structures'
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- **HLA/disease associations**
- *(fixed position on a chromosome where a particular gene is located)*
most polymorphic known in higher vertebrates

: Find associations of HLA-type and COVID-19 severity

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: Find associations of HLA-