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- Later studies show evidence of cold/hot spots as well *Lytras et al 2021 BioRxiv*

• Compelling argument for GG depletion as an adaptive trait.

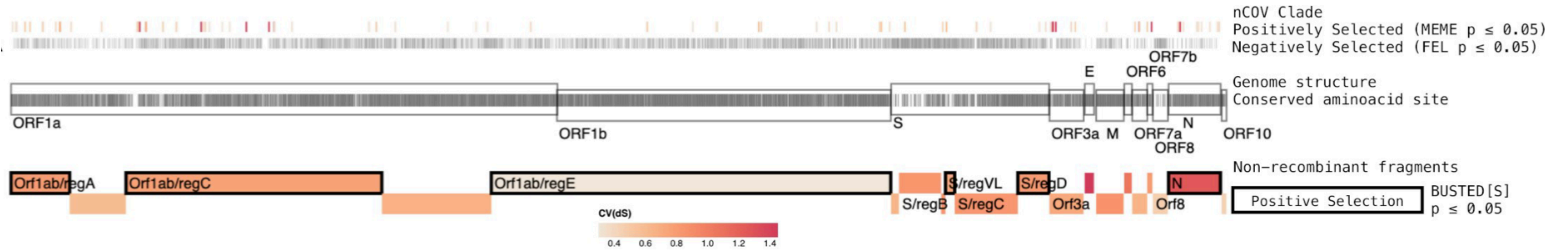
December 2019

November 2020

May 2021









**Many recombination breakpoints**



Extensive conservation

**Primary evolutionary signal is negative selection**



A few sites under positive selection in nCoV



**Some segments are under selection in nCOV**

December 2019

November 2020

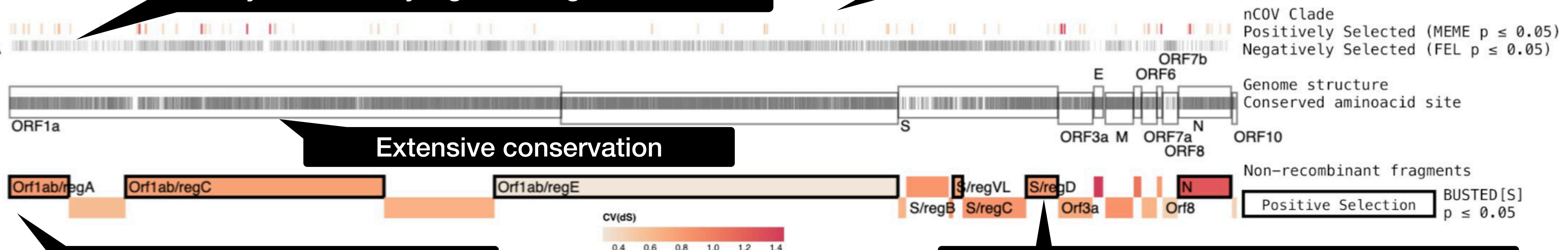
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