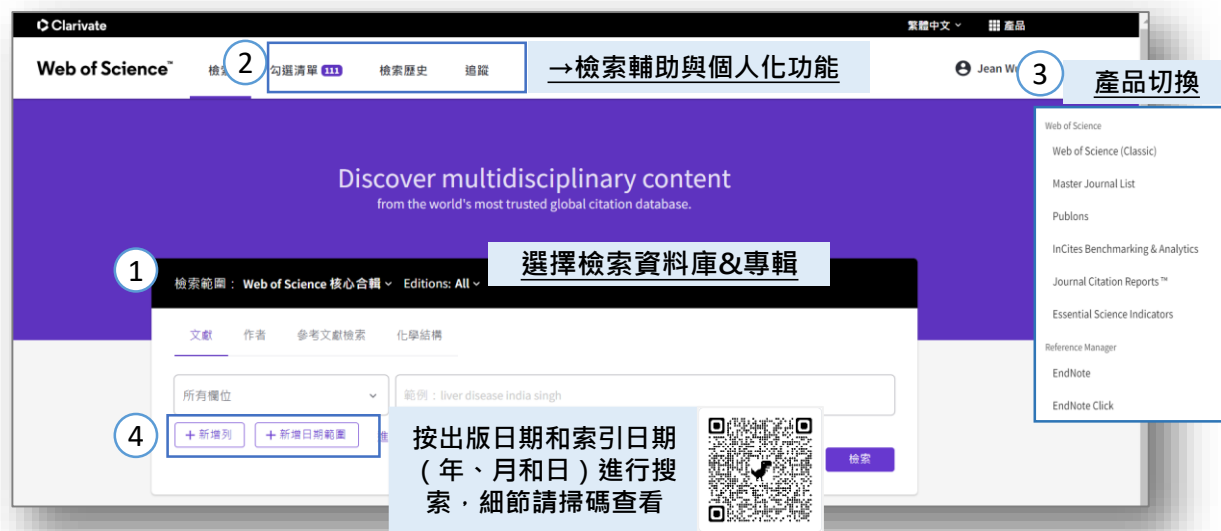


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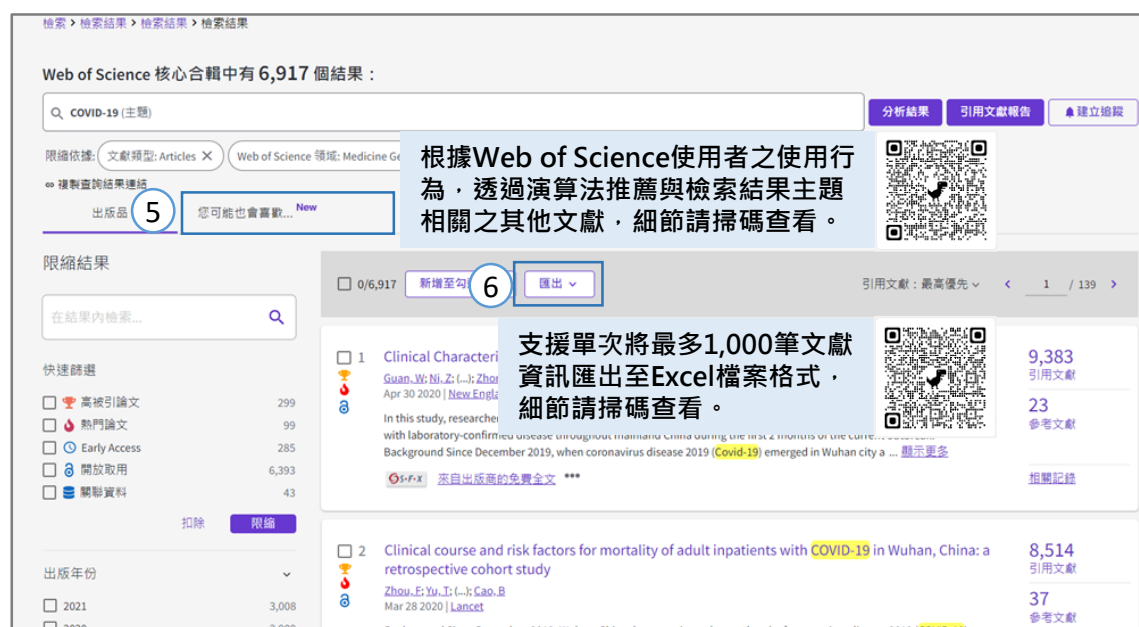
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1-Luo, CM (Luo, Chuming) 1, 2, 3, 4

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NATURE

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摘要

The crystal structure of the receptor-binding domain of the SARS-CoV-2 spike in complex with human ACE2, sheds light on the structural features that increase its binding affinity to ACE2. A key to tackling this pandemic is to understand the receptor recognition and host range. SARS-CoV-2 and SARS-CoV recognize the same receptor-angiotensin-converting enzyme 2 (ACE2). In comparison with the SARS-CoV RBD, an ACE2-binding ridge in SARS-CoV-2 RBD stabilizes two virus-binding hotspots at the RBD-ACE2-binding affinity. Additionally, we show that RaTG13, a bat coronavirus that is closely related to SARS-CoV-2, has a different ACE2 recognition strategy. The differences among SARS-CoV-2, SARS-CoV and RaTG13 in ACE2 recognition shed light on the evolution of the virus. This study provides guidance for intervention strategies that target receptor recognition.

關鍵字

Keywords Plus: ACUTE RESPIRATORY SYNDROME; SARS-CORONAVIRUS; SPIKE PROTEIN; RECEPTOR; TARGET; COV

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