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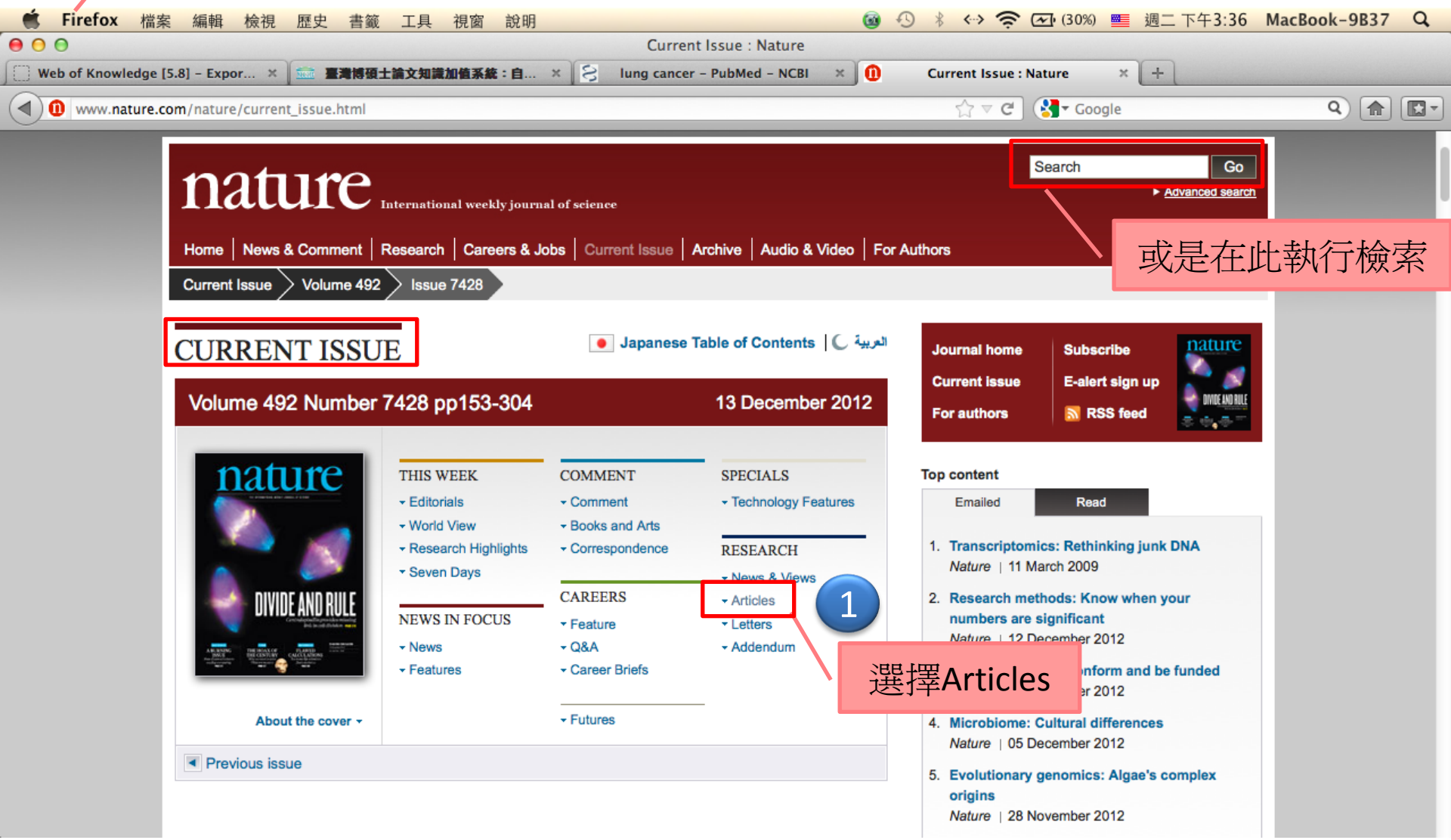

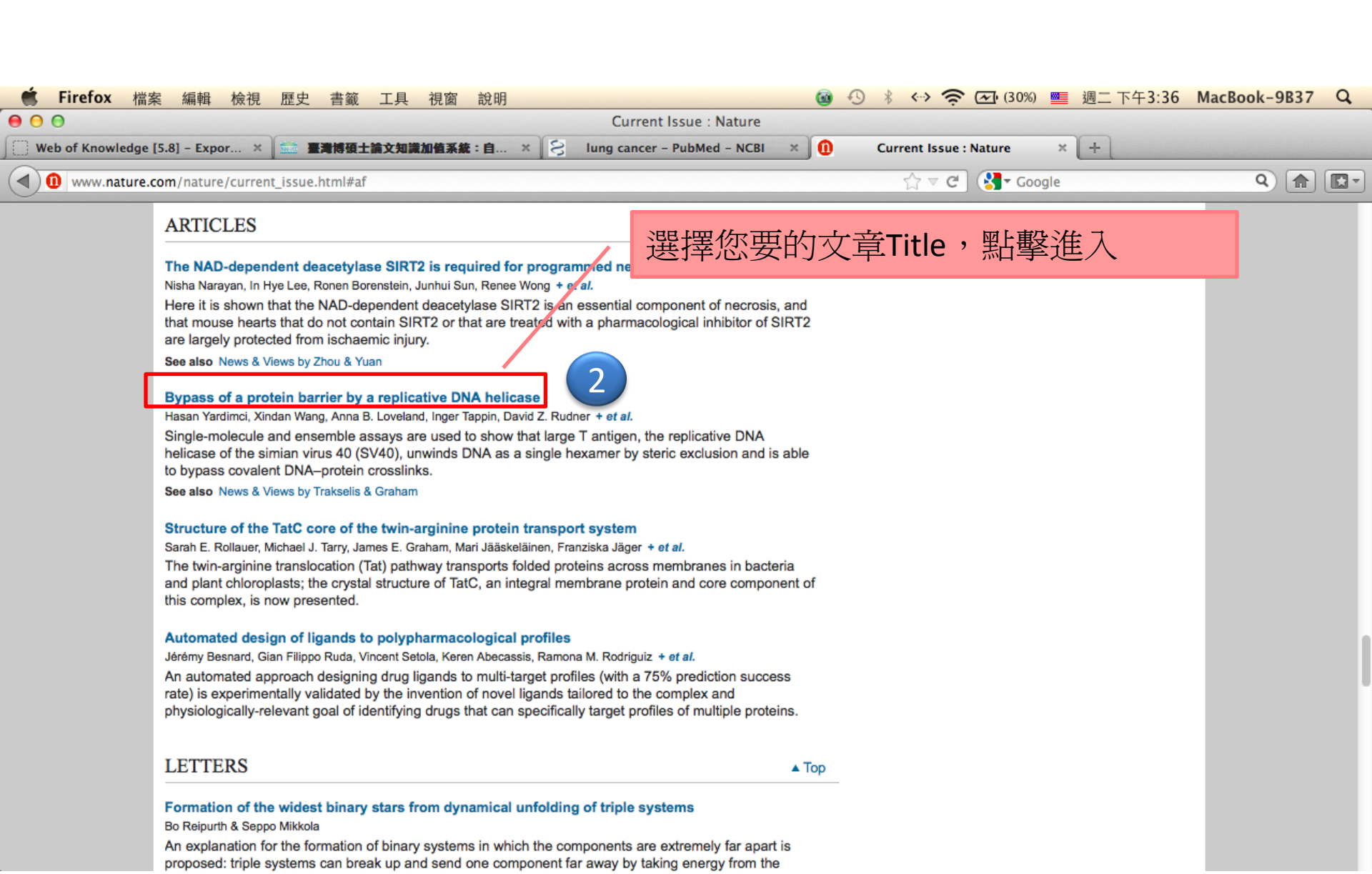
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The twin-arginine translocation (Tat) pathway transports folded proteins across membranes in bacteria and plant chloroplasts; the crystal structure of TatC, an integral membrane protein and core component of this complex, is now presented.
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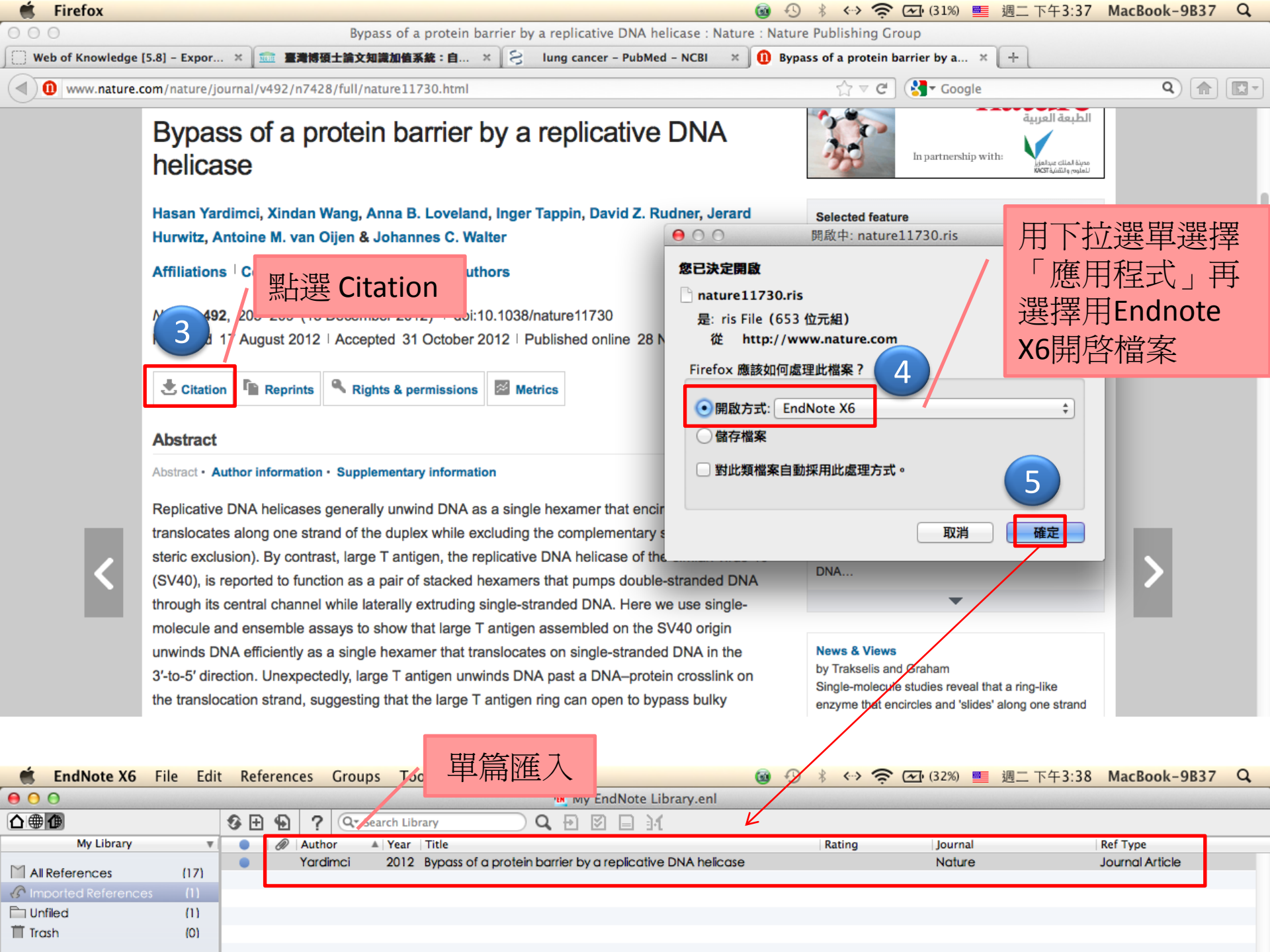
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Abstract
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Replicative DNA helicases generally unwind DNA as a single hexamer that encir
translocates along one strand of the duplex while excluding the complementary s
steric exclusion). By contrast, large T antigen, the replicative DNA helicase of the
(SV40), is reported to function as a pair of stacked hexamers that pumps double-stranded DNA through its central channel while laterally extruding single-stranded DNA. Here we use single-molecule and ensemble assays to show that large T antigen assembled on the SV40 origin unwinds DNA efficiently as a single hexamer that translocates on single-stranded DNA in the 3′-to-5′ direction. Unexpectedly, large T antigen unwinds DNA past a DNA–protein crosslink on the translocation strand, suggesting that the large T antigen ring can open to bypass bulky
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