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New perspectives on angiotensin-converting enzyme 2 and its related diseases

Liu LP *et al.* Angiotensin-converting enzyme 2

Li-Ping Liu, Xiao-Li Zhang, Jian Li

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Both SARS-CoV-2 and SARS-CoV enter human cells via the interactions between viral crown-like spike protein and human **angiotensin-converting enzyme 2** (ACE2) receptor. Here, we aim to review the involvement of ACE2 in human CoV infections by discussing the roles of ACE2 in **CoV** evolution, cross-species transmissibility, and COVID-19 susceptibility.

Cited by: 4**Author:** Heng Wee Tan, Yan Ming Xu, Andy T.Y. Lau**Publish Year:** 2020

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Early reports during the coronavirus disease 2019 (**COVID-19**) **pandemic** emphasized theoretical concerns that the continued use of medications that block the renin-angiotensin-aldosterone system (RAAS), including ACE (**angiotensin-converting enzyme**) inhibitors and Ang II (angiotensin II) receptor blockers (ARBs), may influence disease severity and mortality, 1 yet little attention has been paid to the ...

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Many such therapies abrogate the effects of the hypertensive and mitogenic peptide, angiotensin II, by antagonising its interaction with its receptor, or by inhibiting its formative enzyme, angiotensin-converting enzyme (ACE). At the turn of the millennium, a homologous enzyme, termed ACE2, was identified which increasingly shares the limelight with its better-known homologue.

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New Perspectives in the Renin-Angiotensin-Aldosterone ...

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Introduction. The renin-angiotensin-aldosterone system (RAAS) is an important regulator of blood pressure and salt-water homeostasis. Angiotensin converting **enzyme** is a member of RAAS , which catalyses the cleavage of angiotensin I to angiotensin II, and takes part in the metabolism of other peptides like bradykinin .. ACE is a prime target in the treatment of common **diseases**, hereby ACE ...

Angiotensin-converting Enzyme 2

Enzyme



Angiotensin-converting enzyme 2 (ACE2) is an enzyme attached to the cell membranes of cells located in the lungs, arteries, heart, kidney, and intestines. ACE2 lowers blood pressure by catalyzing the hydrolysis of angiotensin II (a vasoconstrictor peptide) into angiotensin (1–7) (a vasodilator). ACE2

counters the activity of the related angiotensin-converting enzyme (ACE) by reducing the amount of angiotensin-II and increasing Ang(1-7), making it a promising drug target for treating cardiovascular diseases.



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