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ACE2 connects COVID-19 with cancer and cancer immunotherapy

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Researchers have a promising lead on COVID-19 treatment
[https://www.news-medical.net/news/20201221/...](https://www.news-medical.net/news/20201221/)
Dec 22, 2020 · By taking a lesson from prostate cancer, researchers now have a promising lead on treatment for COVID-19. Two proteins, ACE2 and TMPRSS2, help the coronavirus gain entry and replicate within cells.

ACE2 protein protects against severe COVID-19: Study
<https://medicalxpress.com/news/2020-12-ace2-protein-severe-covid-.html>
Dec 17, 2020 · More information: Arlissa Viveiros et al, Sex Differences in COVID-19: Candidate Pathways, Genetics of ACE2, and Sex Hormones, American Journal of Physiology-Heart and Circulatory Physiology (2020) ...

Elevated expression of ACE2 in tumor-adjacent normal ...
<https://onlinelibrary.wiley.com/doi/10.1002/jc.33145>
Zhilan Zhang, Lin Li, Mengyuan Li, Xiaosheng Wang. The SARS-CoV-2 host cell receptor ACE2 correlates positively with immunotherapy response and is a potential protective factor for cancer progression. Computational and Structural Biotechnology Journal, 10.1016/j.csbj.2020.08.024, 18, (2438-2444) (2020).

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ColoN Cancer and SARS-CoV-2: Impact of ACE2 Expression in ...

https://www.biorxiv.org/content/10.1101/2020.06.11.146878v1

Jun 18, 2020 - Novel coronavirus disease (COVID-19) pandemic has become a global health emergency. Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) interacts with angiotensin-converting enzyme 2 (ACE2) to enter the cells and infects diverse human tissues. It has been reported that a few conditions, including cancer, predispose individuals to SARS-CoV-2 infection and severe form of ...

Cited by: 2 Author: Mohsen Ahmadi, Najin Saffarzadeh, Moha... Publish Year: 2020

ACE2 and TMPRSS2 expression by clinical, HLA, immune, and ...

https://jitc.bmj.com/content/8/2/e001020

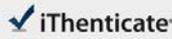
Jul 01, 2020 - Background Pandemic COVID-19 by severe acute respiratory syndrome (SARS) coronavirus 2 (SARS-CoV-2) infection is facilitated by the ACE2 receptor and protease TMPRSS2. Modestly sized case series have described clinical factors associated with COVID-19, while ACE2 and TMPRSS2 expression analyses have been described in some cell types. Patients with cancer may have worse outcomes to ...

Cited by: 2 Author: Riyue Bao, Kyle Hernandez, Lei Huang, Jas... Publish Year: 2020

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Name of Journal: *World Journal of Gastrointestinal Oncology*
Manuscript NO: 61679
Manuscript Type: EDITORIAL

ACE2 connects COVID-19 with cancer and cancer immunotherapy

ACE2, COVID-19, and cancer

xiaosheng wang

The COVID-19 pandemic caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has resulted in more than one million deaths. Underlying diseases, including cancer, are high-risk factors for severe COVID-19 outcomes. ACE2, as a SARS-CoV-2 host cell receptor, plays a crucial role in SARS-CoV2 invading human cells. ACE2 also has significant associations with cancer. Recent studies showed that ACE2 correlated inversely with multiple oncogenic pathways' activities and tumor progression phenotypes, while it correlated positively with antitumor immune response

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Angiotensin-converting enzyme 2 connects COVID-19 with cancer a



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Identification of angiotensin-converting enzyme 2 (ACE2 ...

<https://pubmed.ncbi.nlm.nih.gov/32916258>

COVID-19 is a pandemic that began to spread worldwide caused by SARS-CoV-2. Lung cancer patients are more susceptible to SARS-CoV-2 infection. The SARS-CoV-2 enters into the host by the ACE2 receptor. Thus, ACE2 is the key to understand the mechanism of SARS-CoV-2 ...

Cited by: 4 Author: Abdus Samad, Tamanna Jafar, Jahirul Ha...

Publish Year: 2020

Angiotensin-converting enzyme 2 (ACE2), SARS-CoV-2 and ...

<https://onlinelibrary.wiley.com/doi/full/10.1002/path.5471>

Angiotensin-converting enzyme 2 (ACE2), the functional receptor of SARS-CoV-2, plays a crucial role in the pathogenesis of COVID-19, as it provides viral entry into human cells [7, 8]. The viral spike (S) protein of SARS-CoV-2 binds to ACE2 as a cellular receptor in a similar way to SARS-CoV-1.

Cited by: 113 Author: Arno R. Bourgonje, Amaal Eman Abdulle,...

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Images of Angiotensin-converting Enzyme 2 Connects Covid ...

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Transcriptional regulator BRD2 as a potential therapeutic ...

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