

## Special Issue

# Focus on Antioxidants and Human Diseases

### Message from the Guest Editor

It is well established that oxidative stress plays an important role in severe acute respiratory syndrome coronavirus (SARS-CoV-2) infection. Indeed, significant alterations in redox homeostasis, due to altered antioxidant capacity, have been shown to contribute to the vicious cycle of inflammation and oxidative stress in COVID-19. Furthermore, oxidative stress and the impaired expression of antioxidant enzymes, as well as cytoprotective proteins under the control of the antioxidative response element in the DNA, have been suggested as the molecular basis of long-COVID. Since antioxidants have the ability to counteract the action of oxidants by scavenging reactive oxygen species (ROS) and by inhibiting oxidant-generating enzymes, various antioxidants have been proposed as “anti-SARS-CoV-2 agents”. However, further studies are needed to clarify the role of antioxidants as potential therapeutic strategies for both the prevention and treatment of acute COVID-19, as well as long-COVID.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 May 2025)



## International Journal of Molecular Sciences

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