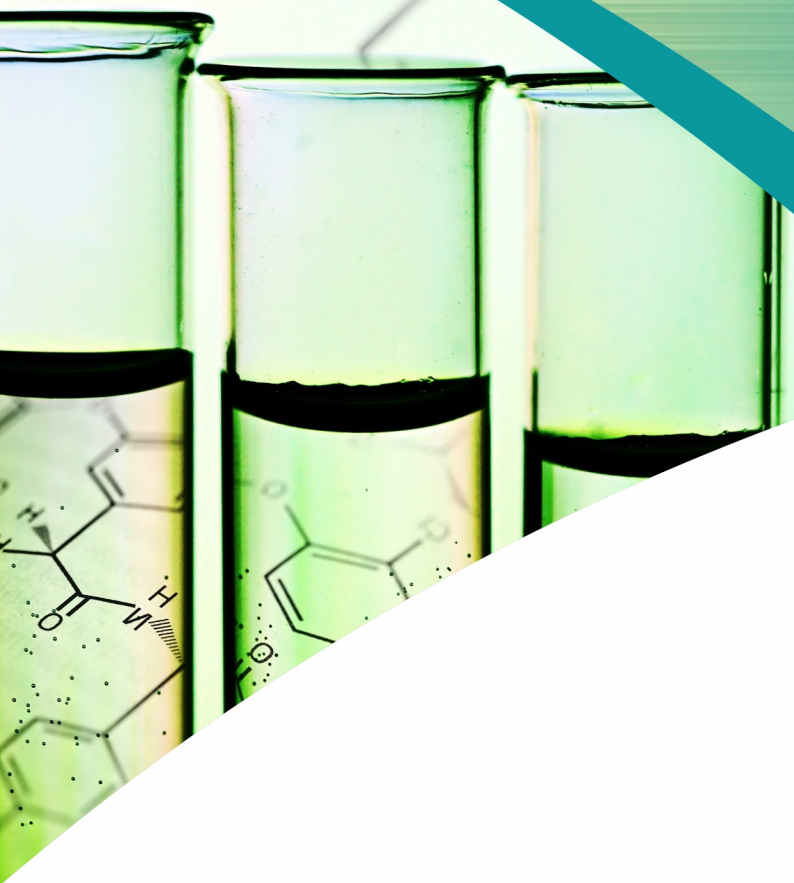


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Comparative Immuno Analytical Study Between *Withania somnifera* and *Tinospora cordifolia* Obtained from Different Geographical Sources and Their Prospective Effectiveness Against Covid–19

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ABSTRACT

Background: Traditional systems of medicines provide significant safeguards to humanity from the ancient era to date. They cure, mitigate, and prevent various infectious and metabolic diseases with a minimal side effect. Particularly, traditional immunomodulators (Rasayana in Ayurveda) could serve as a breakthrough in combating the contagious COVID-19 pandemic. Interestingly, *Withania somnifera* and *Tinospora cordifolia* were enlisted among the Rasayana products because of their inherent immunomodulatory properties. Therefore, intensify the investigation on these particular herbs could open the pipeline for drug and vaccine development against COVID-19.

Aim: The review focus on investigating and comparing the immunomodulatory and anti-COVID-19 relative effectiveness of *Withania somnifera* and *Tinospora cordifolia* herbs.

Methods: The established literature relevant to the research aim was extensively studied through recognized electronic scientific databases, namely; PubMed, Science Direct, J-gate, Research Gate, Elsevier, Google Scholar, ACS Publications Today, Wiley Online Library and Web of Science respectively.

Result: According to the studied literature, both *W. somnifera* and *T. cordifolia* herbs found to have numerous phytoconstituents that explore a significant immunomodulatory activity via different pathways.

Conclusion: The immune-analytical comparison study shows that *T. cardifolia* has the potent phytochemicals that show more likeness to mitigate the SARS-CoV-2 and predicted to have the highest drug-likeness profile on the bases of in silico studies narrated in the literature. Whereas Ashwagandha found to have shown the highest immunomodulatory effectiveness via different distinct mechanisms and specificity to ACE2 binding inhibition. Therefore, it will be of great importance to intensify clinical investigations more specifically in vivo study to establish, safety, and biopharmaceutical parameters.



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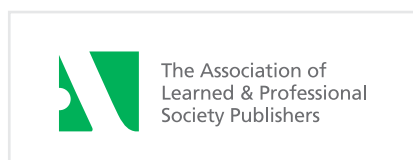
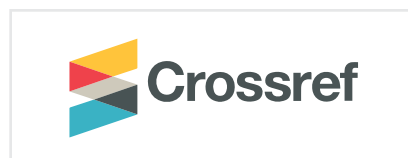
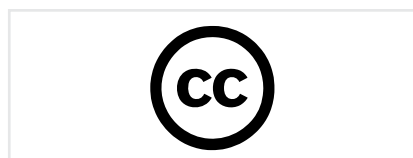
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