

# Special Issue

## Superoxide

### Message from the Guest Editors

The superoxide radical is involved in several very important biological processes... Natural control is performed by enzymes of our body as superoxide dismutase (SOD) which transforms superoxide in hydrogen peroxide plus oxygen. However, SOD control becomes less effective in aging or under some unhealthy conditions associated with excessive ROS production...

Another very important role of superoxide is in the immune system, which uses superoxide to attack biomolecules of pathogens invaders. Unfortunately, sometimes signals are misinterpreted by the immune system, which attacks its own body triggering an autoimmune disease. Thus, natural products can have an important double role, e.g., helping to postpone the aging condition and decreasing the autoimmune attack...

This special session wants to encourage scholars working in any biological environment involving the superoxide radical and this includes also molecular arrangements of superoxide interacting through a pi-pi system, which has been recently shown feasible for natural products mimicking SOD action.

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### Guest Editors

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## International Journal of Molecular Sciences

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