



Natural Products and Aging

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Message from the Guest Editor

The Special Issue “Natural Products and Aging” is focused on the role of natural compounds and medicinal plant extracts useful to preserving health. New research about agents that are useful in the prevention and treatment of aging-related pathologies are of great interest. In fact, aging is associated with illness, such as cardiovascular diseases and dementia. Several conserved mechanisms are implicated in aging. Further, cellular and molecular inflammatory responses are involved. A key mechanism of age-dependent pathologies is the accumulation of non-enzymatic glycosylation (or glycation) products of proteins and lipids, with the formation of advanced glycation end products (AGEs). According to these observations, the recognition of natural products, isolated compounds, or new synthetic compounds capable of reducing glycaemia and AGE formation represents a great challenge in medicine.

This Special Issue will cover all aspects concerning natural agents and their derivatives that affect aging, focusing on the biochemical, molecular, and clinic activities that these substances may exert, both in vitro and in vivo.





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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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