Quercetin and related chromenone derivatives as monoamine oxidase inhibitors: Targeting neurological and mental disorders

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Monoamine oxidase inhibitions are considered as important targets for the treatment of depression,
anxiety, and neurodegenerative disorders, including Alzheimer?s and Parkinson?s diseases. This
has encouraged many medicinal chemistry research groups for the development of most promising
selective monoamine oxidase (MAO) inhibitors. A large number of plant isolates also reported for
significant MAO inhibition potential in recent years. Differently substituted flavonoids have been
prepared and investigated as MAO-A and MAO-B inhibitors. Flavonoid scaffold showed notable
antidepressant and neuroprotective properties as revealed by various and established preclinical
trials. The current review made an attempt to summarizing and critically evaluating the new findings
on the quercetin and related flavonoid derivatives functions as potent MAO isoform inhibitors. ©
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Flavonoids
In-silico design
Mental disorders
Monoamine oxidase
Monoamine oxidase inhibitors
Neurodegenerative disorder
Quercetin
flavonoid

monoamine oxidase inhibitor

quercetin
animal
chemical phenomena
chemistry
human
mental disease
metabolism
molecular model
neurologic disease
structure activity relation
Animals
Chemical Phenomena
Flavonoids
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Mental Disorders
Models, Molecular
Monoamine Oxidase Inhibitors
Nervous System Diseases
Quercetin
Structure-Activity Relationship