



Special Issue Reprint

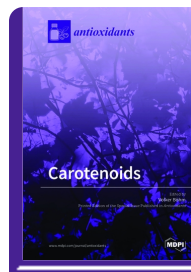
Carotenoids

www.mdpi.com/books/reprint/1870

Edited by
Volker Böhm
Volker Böhm

ISBN 978-3-03921-864-6 (Softback)

ISBN 978-3-03921-865-3 (PDF)



Carotenoids are a group of natural pigments, consisting of more than 750 compounds. They are mostly yellow, orange, or red in color, due to the system of conjugated double bonds. This structural element is also responsible for the good antioxidant properties of many carotenoids. Carotenoids have shown numerous biological activities (not only as provitamin A), e.g., preventive properties of fruits and vegetables. As lipophilic compounds, their uptake and storage in the body are dependent on various conditions. In vitro and in vivo data showed stimulating and inhibitory effects of matrix compounds on bioaccessibility and bioavailability of carotenoids.

This Special Issue presents the most recent advances in carotenoids research, in addition to the search for antioxidant properties. Chapters present the photoprotective properties of carotenoids as well as the activities of carotenoids related to liver health. Research data on the effect of degree of ripeness on carotenoids pattern in rosehip and possibilities to use shrimp waste as source of carotenoids are presented. Other investigations characterized apocarotenoids in microalgae and the properties of inclusion complexes of lycopene and beta-cyclodextrin. Biological activities of synthesized retinoyl-flavonolignan hybrids were also reported. In addition, the effects of in vitro digestion of human milk on the micellization of carotenoids were investigated.

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.