International Journal of
Molecular Sciences

Special Issue Reprint

Natural and Synthetic Compounds for Management, Prevention and Treatment of Obesity, 2nd Edition

Edited by
Marianna Lauricella and Antonella D'Anneo

www.mdpi.com/journal/ijms

MDPI

Natural and Synthetic Compounds for Management, Prevention and Treatment of Obesity, 2nd Edition

Natural and Synthetic Compounds for Management, Prevention and Treatment of Obesity, 2nd Edition

Editors

Marianna Lauricella
Antonella D'Anneo

MDPI • Basel • Beijing • Wuhan • Barcelona • Belgrade • Manchester • Tokyo • Cluj • Tianjin

Editors

Marianna Lauricella
University of Palermo
Palermo, Italy

Antonella D'Anneo
University of Palermo
Palermo, Italy

Editorial Office
MDPI
St. Alban-Anlage 66
4052 Basel, Switzerland

This is a reprint of articles from the Special Issue published online in the open access journal *International Journal of Molecular Sciences* (ISSN 1422-0067) (available at: https://www.mdpi.com/journal/ijms/special_issues/Prevention_Treatment_Obesity_2).

For citation purposes, cite each article independently as indicated on the article page online and as indicated below:

LastName, A.A.; LastName, B.B.; LastName, C.C. Article Title. *Journal Name* **Year**, *Volume Number*, Page Range.

ISBN 978-3-0365-8348-8 (Hbk)
ISBN 978-3-0365-8349-5 (PDF)

Contents

About the Editors

Marianna Lauricella

Associate Professor in Biochemistry at the Department of Biomedicine, Neuroscience and Advanced Diagnostics, School of Medicine, University of Palermo. Lecturer in "Biochemistry" at master's degree Course in Medicine, University of Palermo. Member of the Italian Society of Biochemistry and Molecular Biology (SIB). Associate Editor of BMC Cancer and Editorial Board Member of International Journal of Molecular Sciences. The research activity mainly concerns the study of the mechanisms governing the control of survival and death in cultured tumor cells. In particular, the aim of the research is to identify natural and synthetic compounds which can selectively induce cell death processes (apoptosis, autophagy, necroptosis). She has also expertise in the study of role exerted by oxidative stress in inducing obesity and the anti-obesity effects of natural compounds in in vitro models of obesity. She is author of over 70 peer-reviewed articles. (https://orcid.org/0000-0002-0157-3834).

Antonella D'Anneo

Associate Professor in Biochemistry at the Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo. Lecturer in "Biochemistry" at Bachelor degree in Biological Sciences, University of Palermo. Member of the Italian Society of Biochemistry and Molecular Biology (SIB). Associate Editor in Chief of Cancer Management and Research and Associate Editor for Frontiers in Pharmacology. She began her studies on the field of tumor biology, cell death mechanisms (apoptosis, necrosis, necroptosis, autophagy and anoikis) activated by natural and synthetic compounds and biochemical pathways which can be activated in tumor cells. To complement the graduate training in biochemistry, she obtained, as visiting scholar, a training at Rangos Research Center (University of Pittsburgh, USA) taking part in projects concerning gene therapy approaches to determine tolerization of diabetic patients against the cells of islet donor. More recently, her studies were focused on the identification nutraceutical properties (anti-tumor, anti-inflammatory, anti-obesity and antioxidant) of phytochemicals to disclose their biological activity and potential medicinal use. She is the author of over 60 scientific publications in ISI-indexed journals (https://orcid.org/0000-0002-1785-8236).

1. tabolic disorders: Pathogenesis and therapeuticstrategies. *Life Sci.* **2016**, *148*, 183–193. [CrossRef] [PubMed]

MDPI
St. Alban-Anlage 66
4052 Basel
Switzerland
Tel. +41 61 683 77 34
Fax +41 61 302 89 18
www.mdpi.com

International Journal of Molecular Sciences Editorial Office
E-mail: ijms@mdpi.com
www.mdpi.com/journal/ijms

Academic Open
Access Publishing

www.mdpi.com

ISBN 978-3-0365-8349-5