

S.No	Name of the teacher	Title of the book published	Title of the chapters published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
1	Dr. Shajrul Amin	Long Non-Coding RNA: From Disease Biomarkers to Targeted Therapeutics	Long non-coding RNAs in Hormonal disorders with a focus on polycystic ovary syndrome.	2020	1-5275-5821-5	Yes	Cambridge Scholars Publishing
2	Dr. Shajrul Amin	Long Non-Coding RNA: From Disease Biomarkers to Targeted Therapeutics	Long non-coding RNAs in neurological diseases: A mechanical insight	2020	1-5275-5821-5	Yes	Cambridge Scholars Publishing
3	Dr. Shajrul Amin	Oxidative stress and antioxidants: From free radicals to disease pathogenesis	Oxidative stress and antioxidants: From free radicals to disease pathogenesis	2020	978-613-8-94042-5	Yes	Scholars' Press
4	Dr. Shajrul Amin	Advances in Medicinal Plant Sciences (Vol. 2)	Flavonoids from plants: Structure, biosynthesis and therapeutic applications.	2021	9.78939E+12	Yes	Integrated publications
5	Dr. Mohd Ashraf Dar	Antidiabetic plants for drug discovery.	Mulberry: From root to fruit with antidiabetic properties	2022	9.78177E+12	Yes	Taylor and Francis, USA
6	Dr. Mohd Ashraf Dar	Plant Transposable Elements	Transposable elements and DNA repair at cellular level	2023	9.78177E+12	Yes	Taylor and Francis, USA

7	Dr. Mohd Ashraf Dar	CRISPR/Cas-mediated genome editing in Plants.	Computational tools and approaches for CRISPR/Cas technology	2023	9.78177E+12	Yes	Taylor and Francis, USA
8	Dr. Mohd Ashraf Dar	Plant MicroRNAs and Stress Response	MicroRNAs in Plants and Animals: Converging and Diverging Insights.	2023	9.78103E+12	Yes	Taylor and Francis, USA
9	Dr. Mohd Ashraf Dar	Plant MicroRNAs and Stress Response	Plant MicroRNAs: Physiological Significance in Plants and Animals	2023	9.78103E+12	Yes	Taylor and Francis, USA
10	Dr. Mohd Ashraf Dar	Plant MicroRNAs and Stress Response	MicroRNAs and other non-coding RNAs in plant epigenetics		9.78103E+12	Yes	Taylor and Francis, USA
11	Dr. Mohd Ashraf Dar	Alternative Splicing and Cancer	Mechanism of RNA Splicing	2024	9.78103E+12	Yes	Taylor and Francis, USA



Oxidative Stress and Antioxidants

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Scholar's Press (2020-08-30)

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Book Details:

ISBN-13: 978-613-8-94042-5

ISBN-10: 6138940423

EAN: 9786138940425

Book language: English

By (author) : Shayaq Ul Abeer Rasool
Shajrul Amin

Number of pages: 124

Published on: 2020-08-30

Category: Biology



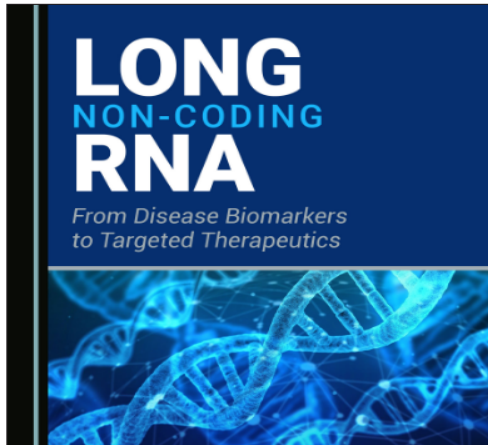


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Long Non-Coding RNA: From Disease Biomarkers to Targeted Therapeutics



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ISBN13: 978-1-5275-5821-2
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Chapter

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Edition: 1st Edition
First Published: 2024
Imprint: CRC Press
Pages: 23
eBook ISBN: 9781003260394



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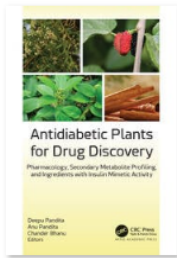
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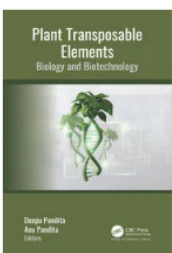
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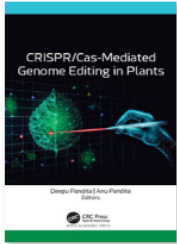
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Chapter

Computational Tools and Approaches for CRISPR/Cas Technology

By *Humaira Shah, Auqib Manzoor, Ashraf Dar*

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Imprint Apple Academic Press
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eBook ISBN 9781003331759



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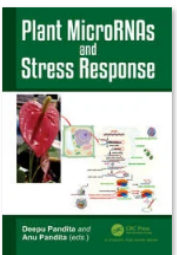
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Chapter

MicroRNAs in Plants and Animals: Converging and Diverging Insights

By *Humaira Shah, Auqib Manzoor, Tabasum Ashraf, Rouf Maqbool, Ashraf Dar*

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Edition 1st Edition
First Published 2023
Imprint CRC Press
Pages 35



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Chapter - 1

Flavonoids from Plants: Structure, Biosynthesis and Therapeutic Applications

Gulzar Ahmad Bhat, Mohammad Raies-Ul-Haq, Mohd Iqbal Bhat and Shajrul Amin

Abstract

Flavonoids are a diverse group of phytochemicals with 15 carbon skeleton arranged into two rings connected by three-carbon bridge. More than 10,000 flavonoids have been isolated and identified in plants. They are classified on the basis of degree of oxidation/saturation at various positions of central ring (ring C) and overall hydroxylation patterns. Different flavonoids include anthocyanins, flavones, flavonols, isoflavones and flavanones. Diverse functional roles of flavonoids have been critically studied and well-accepted now. Some of them include flower coloration, UV filtration, defence, chemical messengers, physiological regulators and are increasingly becoming the subject of medical research due to their potential health benefits. Biosynthetically, flavonoids are formed via two synthetic pathways: shikimic acid pathway or phenylpropanoid pathway and malonic acid pathway or polyketide pathway. Biologically active flavonoids span various orders of magnitude and the most important therapeutic uses of flavonoids include antioxidant, anticancer, anti-inflammatory, cardioprotective and antimicrobial activities. In this chapter, we focus mainly on structure and biosynthesis of flavonoids, along with their therapeutic applications.

Keywords: anthocyanins, flavones, flavonols, isoflavones, flavanones, shikimic acid, antioxidant, anticancer, anti-inflammatory, cardioprotective