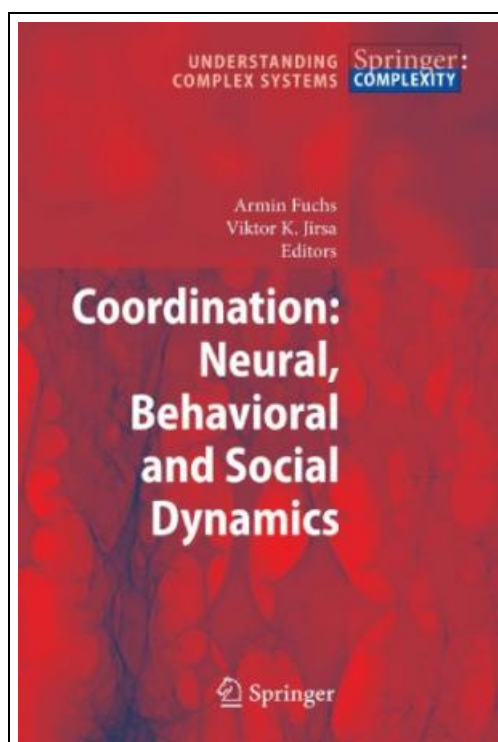


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Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2010. Paperback. Condition: New. Language: English . Brand New Book. As part of the series *Topics in Heterocyclic Chemistry*, this volume titled *Bioactive Heterocycles II* presents comprehensive and up-to-date reviews on selected topics concerning flavonoids and anthocyanins in plants, and heterocycles such as bioactive phenothiazines, phenoxazines, and related compounds. The volume is separated into two sections mainly concentrating on these two topics. There are abundant and diverse flavonoids with carbohydrates and lipids, alkaloids (betalain alkaloids and other alkaloids), phenols (chromones, coumarins, lignans, quinones, and other phenolics), terpenoids (monoterpenoids, sesquiterpene lactones, triperpenoid saponins, carotenoids, and other terpenoids), and minerals as micronutritional phytochemicals in fruits and vegetables of our daily diets. Among these phytochemicals, the flavonoids have specific functionality in relation to age-related diseases such as hypertension, diabetes, cardiac infarction, cataracts, and cancer. The authors of each chapter in the first section have presented their evidence in relation to the mechanism of the preventative and therapeutic ability of the compounds. The first chapter, *Functionality of Anthocyanins as Alternative Medicine* by Noboru Motohashi and Hiroshi Sakagami, presents their antioxidant mechanism for anthocyanidins, which are present in common foods. It is possible that anthocyanins may have been used both preventatively and clinically as part of many folklore medicines worldwide and may have provided healthcare benefits since the appearance of mankind some 7.5 million years ago. The review will inform the reader as to their functionality and mechanism. The second chapter, *Bioactive Mechanism of Interaction between Anthocyanins and Macromolecules Like DNA and Proteins* by Seetharamappa J. dappagari, Noboru Motohashi, Mamatha P. Gangeenahalli, and James H. N. Smith, presents the biological activities of anthocyanins, and the interactions of anthocyanins with DNA and protein. Anthocyanins might protect against damage to health by some types of harmful oxidants through various mechanisms such as their antioxidative activity, protein active site binding, and chelating complex formation. The review presents the interesting interactive mechanism of anthocyanin-DNA complex formation. Softcover reprint of hardcover 1st ed. 2008.



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