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Molecular Aspects of the Action of Vitamin K and its Related Compounds

Guest Editor

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Message from the Guest Editor

Vitamin K is an essential cofactor for post-translational modification in blood coagulation factors and bone proteins. Besides this well-known function, vitamin K plays cellular functions important roles in including differentiation. proliferation. apoptosis, steroidogenesis, by modulating intracellular signalling. Menaguinone-4, that is one of vitamin K2 analogues, and endogenously synthesized from other types of vitamin K mediated by UBIAD1 prenyltransferase, acts as a ligand for nuclear receptor PXR (SXR) and can regulate mRNA expression of certain genes involved in drug metabolism homeostasis hone Natural isoprenoid geranylgeraniol, that is side chain moiety of menaguinone-4, shows functional aspects similar to menaguinone-4. In this Special Issue, we focus on the insights of vitamin K research regarding its properties in modulating intracellular signalling and gene expression that can contribute to health promotion and prevention of diseases.













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Message from the Editor-in-Chief

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