

## Special Issue

# Vitamin K Intake and Human Health

### Message from the Guest Editor

All vitamin K (VK) analogs are active as a cofactor for the post-translational formation of Gla-proteins. However, of the VK analogs, menaquinone-4 (MK-4) has specific activities for various important physiological functions. Therefore, future studies must be undertaken to clarify the important role of MK-4 existence in the tissues, as well as comparative studies using vitamin K1 against MK-4 because orally ingested VK1 (or MK-n) is partially converted into MK-4 in each tissue. Studies on unique functions of MK-4, such as bone formation activity that is dependent or independent on osteocalcin, and the mechanism of anti-cancer, anti-atherosclerosis, anti-diabetes, anti-inflammation activities must be included; furthermore, studies on functions through the binding to the nuclear steroid X receptor (SXR or PXR), and on the direct effect of MK-4 on steroid hormone (testosterone) synthesis in the testis or brain must be added to this issue.

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### Guest Editor

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### Deadline for manuscript submissions

closed (28 February 2020)



## Nutrients

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*Nutrients* is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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