

Topical Collection

Advances in Omega-3 Research

Message from the Collection Editor

Omega-3 polyunsaturated fatty acids as essential nutrients, dietary supplements, and pharmaceutical drugs have been widely investigated and used over the past few decades. The continued interest and ever-growing volume of research in the field point to omega-3 fatty acids as a key player in the management of chronic diseases. However, the main challenge of omega-3 research lies in its complexity and confounding factors. Variations, inconsistencies, and controversies on the study outcomes of omega-3 fatty acids remain to be clarified. Recent advances in analytical technologies (such as “omics”), new animal models, and integrated experimental approaches have allowed us to more comprehensively and accurately elucidate the biological effects of omega-3 fatty acids and their mechanisms and readily identify biomarkers for efficacy evaluation. Novel concepts and emerging technologies are being used for production, process, and analysis of omega-3 fatty acids, as well as for the development of omega-3-based interventions for health promotion and disease management.

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