

Special Issue Reprint

Fatty Acids from Marine Organisms, 2nd Edition

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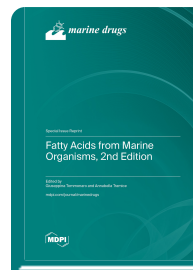
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Marine ecosystems are an extraordinary reservoir of biochemical diversity, and fatty acids (FAs) stand out as one of their most functionally and ecologically significant components. Found in virtually all marine organisms, fatty acids play pivotal roles in cellular structure, energy storage, and intercellular communication. Beyond their fundamental biological functions, they are increasingly recognized as valuable biomarkers for food web analysis and as promising compounds with nutritional and therapeutic potential. This Special Issue has brought together the recent advances in the study of marine fatty acids, with a focus on their chemical diversity, biological functions, ecological significance, and bioactivities. Contributions covered a wide range of topics, including the following:

- Structural characterization of novel marine fatty acids.
- Biosynthesis and metabolism of fatty acids in marine species.
- Fatty acids as trophic biomarkers in marine ecology.
- Nutritional value and health benefits of marine-derived polyunsaturated fatty acids (e.g., EPA, DHA).
- Bioactive fatty acids with anti-inflammatory, antimicrobial, or anticancer properties.
- Applications of marine lipids in food, nutraceutical, or pharmaceutical industries.

This Special Issue provides an opportunity to showcase cutting-edge findings that underscore the importance of marine fatty acids in science, health, and industry.



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