



Volatile Compounds: Trends, Advances, and Applications in Biodegradable Polymers for Food Packaging

Guest Editors:

Dr. Mozaniel Santana de Oliveira

Adolpho Ducke Laboratory,
Botany Coordination, Museu
Paraense Emilio Goeldi, Av.
Perimetral, 1900, Terra Firme,
Belém 66077-830, PA, Brazil

Prof. Dr. Monica Rosa Loizzo

Department of Pharmacy, Health
and Nutritional Sciences,
University of Calabria, 87036
Rende, CS, Italy

Jorddy Cruz

Adolpho Ducke Laboratory,
Botany Coordination, Museu
Paraense Emilio Goeldi, Av.
Perimetral, 1900, Terra Firme,
Belém PA 66077-830, Brazil

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Message from the Guest Editors

Plastic packaging derived from synthetic polymers can create several health risks because it can interact with food and release cytotoxic microparticles at the cellular level. Another alternative that can be considered ecologically correct is the film used in food packaging derived from renewable and biodegradable polymers generated from food processing waste. Proteins present great potential because they are low-cost biopolymers and easily available from sources such as pork, bovine, fish gelatins, or produced by microorganisms. In addition, biopolymers can be important carriers of natural bioactive compounds for the preservation of food quality, such as volatile compounds, e.g., thymol, γ -terpinene, carvacrol, linalool, borneol, camphor, eugenol, methyl eugenol, limonene, terpinen-4-ol, and 1,8-cineole among others. These compounds have demonstrated antioxidant and antimicrobial activities that can preserve the characteristics of food and prolong its shelf life. For these reasons, the present Special Issue has as its central theme advances in the application of volatile compounds in biofilms used as functional food packaging.





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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

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Molecules Editorial Office
MDPI, St. Alban-Anlage 66
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