

## Special Issue

# Synthesis and Applications of Natural and Synthetic High-Molecular and Polymer Compounds: A Molecular Perspective

### Message from the Guest Editor

Natural and synthetic high-molecular compounds are commonly used in the food industry, pharmaceuticals, and cosmetology as carriers for bioactive substances, such as antioxidants, polyphenols, and vitamins. For instance, fruit-derived pectin (polysaccharides) can regulate the release of bioactive compounds in the digestive tract. Additionally, polymers like microcrystalline cellulose, sodium alginate, and hyaluronic acid play crucial roles. Polysilanolols are also important compounds for storage and controlled release. This Special Issue aims to promote new materials based on high-molecular-weight and biologically active compounds, both synthetic and isolated from natural products, covering their synthesis, characterisation, and potential applications. The optimal use of bioactive compounds can contribute to improving our diet, health, and beauty.

### Guest Editor

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