

Special Issue

Applied and Translational Research on Bioactive Peptides and Proteins

Message from the Guest Editor

Every synthesized protein and its specific post-translational modification can putatively act as a bioactive molecule, enabling the use of a wide range of biological materials as a peptide source, from bacterial-, animal- or plant-derived cell cultures to biofluids, and from food to microbial environments. Furthermore, these proteins and peptides could be exploited as potential disease biomarkers, as they have been largely investigated in relation to their 3D structure, cellular compartmentalization, interactions and functions, paving the way to the discovery of new physiological and pathological pathways in living organisms. In addition to this, improvements in molecular engineering, biotechnology and chemical synthesis have contributed to the development of both a new generation of biosensors and innovative biotechnological drugs, such as, for example, antimicrobial agents, antihypertensive compounds, antioxidants or blood-lipid-lowering active molecules. Last, but not least, bioactive proteins play an increasingly central role in the food industry due to their nutraceutical effect.

Guest Editor

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