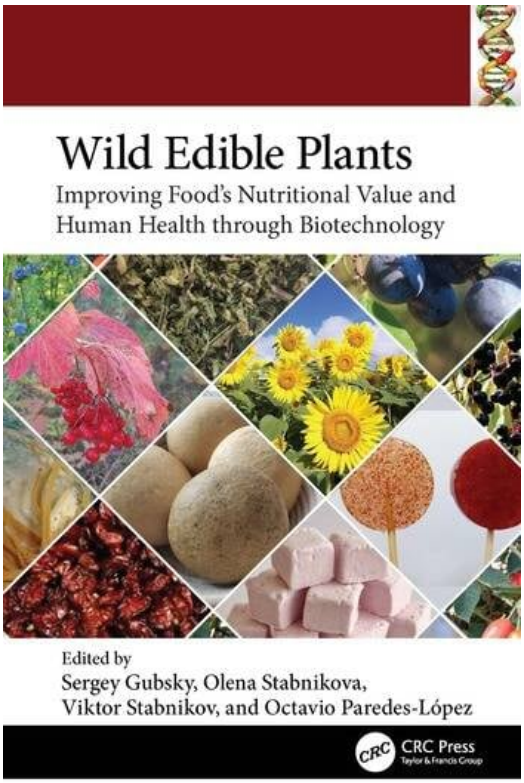
"Wild edible plants: Improving foods nutritional value and human health through biotechnology": International Research Publications by Ukrainian Scientists

The authoritative international publishing house of scientific literature CRC Press Taylor & Francis group published the book "Wild edible plants: Improving foods nutritional value and human health through biotechnology" under the leadership of the famous biochemist and nutritionist Octavio Paredes-López, which includes the studies of Ukrainian scientists.



Wild plants have been used by humans as an important source of nutrition since ancient times. They are rich in health-promoting compounds such as phenols, flavonoids, antioxidants, vitamins, trace elements, and dietary fibers. When incorporated into food products, these materials enhance the nutritional value, functionality, and sensory qualities of traditional foods. This book explores the biotechnological approaches to developing meat, bakery, and confectionery products, as well as beverages, enriched with wild edible plants. It highlights recent advancements in the use of wild plants as natural emulsifiers, stabilizers, and thickeners in water-in-oil emulsion-based food systems. Additionally, it discusses the potential applications of edible algae and wild mushrooms in both food and medicine.

Key Features include:

- Describes novel functional foods utilizing edible wild plant-based raw materials
- Presents innovative technologies for producing meat, bakery, and confectionery products and beverages enriched with wild plant-based ingredients
- Proposes the application of wild plants in water-in-oil emulsion-based food systems
- Explores the use of wild algae in the development of functional food products
- Covers the medicinal applications of wild edible mushrooms

This book presents recent advances in food biotechnology and serves as a visual educational tool, providing comprehensive knowledge about wild edible plants, algae, and mushrooms, along with their applications in food production. It is designed for students, educators, researchers, and professionals in the food industry and biotechnology sectors. Moreover, it offers a valuable resource for developers of innovative food technologies.

The book "Wild edible plants: Improving foods nutritional value and human health through biotechnology" is the third publication by Ukrainian scientists published in the series of books and collections “Food Biotechnology and Engineering”. The first book, “Bioenhancement and fortification of foods for a healthy diet”, was published in 2022, followed by the second, “Bioconversion of waste to value - added products” in 2023.

Detailed information about the Book: https://doi.org/10.1201/9781003486794

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