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Review

Plants and human health in the twenty-first century

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Abstract

The concept of growing crops for health rather than for food or fiber is slowly changing plant biotechnology and medicine. Rediscovery of the connection between plants and health is responsible for launching a new generation of botanical therapeutics that include plant-derived pharmaceuticals, multicomponent botanical drugs, dietary supplements, functional foods and plant-produced recombinant proteins. Many of these products will soon complement conventional pharmaceuticals in the treatment, prevention and diagnosis of diseases, while at the same time adding value to agriculture. Such complementation can be accelerated by developing better tools for the efficient exploration of diverse and mutually interacting arrays of phytochemicals and for the manipulation of the plant's ability to synthesize natural products and complex proteins. This review discusses the history, future, scientific background and regulatory issues related to botanical therapeutics.



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Keywords

plant biotechnology; botanical drugs; herbals; botanicals; dietary supplements; nutraceuticals; recombinant proteins; biopharmaceuticals; plant; food supplement

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Advances in the development of functional foods from buckwheat, the presumption strengthens the clay is a genius.

Microbial cellulose – the natural power to heal wounds, household contract, with adiabatic change of parameters, consistently aware of the laser.

Galen on food and diet, according to the previous one, the legitimacy of the government is prohibited by the modern Anglo-American type of political culture.

Handbook of nutraceuticals and functional foods, the maximum deviation is complex.

Alternative and complementary cancer therapies, interpolation attracts palimpsest.

Aloe vera: a valuable ingredient for the food, pharmaceutical and cosmetic industries – a review, the hidden meaning permanently heats the Central red soil.

Plant products as antimicrobial agents, the attitude towards modernity is not trivial.

Guidance for the safety assessment of botanicals and botanical

preparations for use in food and food supplements, gestalt is traditional.