

Circular bioeconomy as a novel source of bioactive compounds

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The circular bioeconomy offers numerous opportunities for the health, cosmetic, and nutrition sectors through the potential reuse of agroforest by-products. This abundant and sustainable resource provides valuable bioactive secondary metabolites, particularly with antioxidants and anti-inflammatory properties. The transformation of these by-products into high-value products for human health can contribute to sustainable economic growth and reduce the environmental impact of traditional waste disposal practices, thus creating added value from previously underutilized resources.

Within the frame of the ONE-HEALTH vision and by means of multidisciplinary approaches, a series of extracts derived from biological waste and by-products will be described for their bioactivity and their potential exploitation to produce sustainable novel products for health and wellness.