

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

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The road to green and circular strategies for the production of bio-based chemicals

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Abstract: For decades, the petrochemical refinery has served as a predominant supplier of fuels, chemical commodities, and materials. Nowadays bioprocesses, either fermentative or biocatalytic, and preferably based on renewable biomass feedstock, represent a new sustainable and green approach to the manufacture of chemicals. They are promising to enable the replacement of petroleum-based raw materials, thereby limiting the depletion of resources, reducing greenhouse gas emissions, toxic by-products, and the safety risks associated with traditional processing, embracing the principles of green chemistry.

In this seminar, I will discuss strategies and challenges of these processes as well as our latest results on this field with a focus on the valorization of yeasts biodiversity as cell factories for the up-cycling of residual biomasses.

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