MUR DM 118 - Sustainable biocatalytic processes for waste valorization and production of new high value compounds

The application of enzymes in the production of organic molecules is a topic of biotechnological interest, especially if their source is waste material. Indeed, the selectivity of enzyme-catalyzed reactions can be exploited to produce a desired molecule as well as a variety of new molecules with interesting properties for the chemical, pharmaceutical, food and cosmetic industries. The project will focus on the valorization of compounds present in waste material using biocatalytic approaches.

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The candidate should possess an advanced knowledge in protein biochemistry, enzymology, molecular biology and organic chemistry together with a basic experience in laboratory techniques related to protein production and characterization or to analytic techniques for organic compounds identification.