

**Bioprocesses for the valorisation of agro-industrial wastes**

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This research line is focused on the design of enzymatic and microbial bioprocesses for the valorisation of agro-industrial wastes and their conversion in biomaterials (biopolymers, biochemical and biofuels). In particular, the research will cover the following topics:

- Designing of cell-factories for the development of microbial processes for the conversion of wastes into high-added value products, i.e. microbial biopolymers (polyhydroxyalkanoates) with different composition and applicability
- Identification, characterization and development of enzymatic biosystems, free or immobilized, for biomass treatment
- Designing of integrated and multi-products biorefineries for the valorisation of biomasses and agro-food wastes
- Production of new biodegradable biopolymers

**Key words:** Industrial enzymes, biotransformation, biopolymers, oxidative enzymes, biorefineries

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## SUPPLEMENTARY MATERIAL

### Position of the components of the Research Group

Name	Surname	Position	Affiliation
Giovanni	Sannia	PO	University of Naples Federico II, Department of Chemical Sciences
Cinzia	Pezzella	RTDB	University of Naples Federico II, Department of Agricultural Sciences
Iolanda	Corrado	PhD	University of Naples Federico II, Department of Chemical Sciences
Nicoletta	Caselli	Research fellow	University of Naples Federico II, Department of Chemical Sciences

\*: PO = Full professor; PA = Associate professor; RU = University researcher; CO = contract; PoD = Postdoctoral fellows; RC = CNR staff or other Institutions Research; T = technician, VR = visiting researcher, S = student