



Research topics available for master's thesis. Interested students may contact faculty members directly

Proposing faculty member	Research area	Research topic	Maximum available number of students	Notes (optional)
Luigi Cembalo	Economics and policies	<ol style="list-style-type: none">1. Agroecology performance indicator2. Economic assessment of circular bio-based solutions3. Organizational and governance circular design	3	
David Turrà	Sustainable pathogen control	<ol style="list-style-type: none">1. Identification, characterization and in vitro/vivo testing of bacterial and fungal biocontrol agents	1	
Elena Torrieri	Food processing and packaging	<ol style="list-style-type: none">1. Development of active biopolymer film2. Novel strategies to reduce food loss and waste	2	
Marco Gebiola	Sustainable insect control	Use of insect frass to enhance plant resistance against insect pests	2	
Riccardo Aversano	Plant breeding for sustainable production	Discovery of genes contributing to plant resilience under stress conditions	2	
Paolo Dessì	Biological wastewater valorization	Biological conversion of organic substrated into valuable products by fermentation	2	
Giuseppe De Rosa	Ruminant farming	<ol style="list-style-type: none">1. Use of ear-attached sensors to record feeding behaviour and activity in buffalo2. Use of by-products and leftovers from the pasta industry to feed ruminants	2	



Alfonso William MAURO	Flows and Costs related to Energy assessment for Sustainability Evaluation in the Food Industry	On field evaluation of energy flows and KPI for sustainability evaluation. 1. A case study for the crop food industry 2. A case study for the pasta food industry	2	
Danilo Ercolini	Microbiome and microbial ecology	Microbiome composition and functions in food or human ecosystems	1	
Nunzio Fiorentino	Sustainable Cropping Systems	1. Transfer of inorganic contaminants in durum wheat: effects of genotypes and amendment strategies 2. Monitoring of sites contaminated by cadmium and subject to phytoremediation plans with poplar trees and turfgrass	2	
Paola Vitaglione	Human nutrition	Validation of efficacy of food/diet on human health through <i>in vitro</i> or <i>in vivo</i> studies	1	