

Form (ENG):	AGR/16 – Agricultural Microbiology		Year: 2016
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#### N. Research: main topics and strategic initiatives

Notes

01 Exploitation of residual biomass: microbial conversion to bio-fuels

02 Microbial production of bio-polymers from agri-food residual biomass

03 Microbial biodiversity in agricultural and environmental systems

04 Interactions in the soil-plant-microbe communities and cell-to-cell bacterial communication

05 Use of microorganisms to improve food safety and quality and to exploit by-products for production of food and feed by fermentation

06 Use of microorganisms for the development of novel foods and to increase the sustainability of food productions

**Laboratory:** Microbiology (Legnaro - Agripolis) Food Microbiology (Conegliano - CIRVE)

**Species:** a large collection of bacteria and yeast, belonging to several species, wild type and recombinant, is available

**Technologies/Metodologies:** all conventional and DNA-based microbiological techniques; use of instruments such as GC, HPLC, GC-MS, fluorescence microscope

**Main ERC fields and subfields:** LS8\_4, LS8\_10, LS8\_11, LS9\_1, LS9\_5, LS9\_7, LS9\_6, LS9\_9

**Notes:**