Form (ENG):	AGR/04 – Vegetable and Flower crops		Year: 2016
Representative:	Paolo Sambo	Full professor	paolo.sambo@unipd.it
Components:	Giampaolo Zanin	Researcher	paolo.zanin@unipd.it
	Carlo Nicoletto	Researcher	carlo.nicoletto@unipd.it

Notes

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N. Research: main topics and strategic initiatives

Biochemical determinants of the quality of the horticultural production as a function of process variations.

01 Evaluation of nutritional, antinutritional and nutraceutical features of vegetables product in relation to agricultural input and pratices, pedo.climatial einvironment, abiotic stress and post-harvest.

Environmental sustainibility of horticultural systems.

Development of horticultural systems with low environmental impact.
Characterization and evaluation of organic agro-industrial by-products as fertilizers, amendmentss and growing substrates. Valorization of water resorce in horticulture.

Laboratory: Sperimental farm, greenhouse, high tunnel, quality of vegetables and horticultural products, physical/shemical analysis of substrates, soils and water

Species: vegetables, ornamentals, edible mushrooms

Technologies/Metodologies:

Field and greenhouse experimental trials, soilless culture, spectrophotometry, ionic chromatography, HPLC, Texture analyzer

Main ERC fields and subfields: LS9_4 Plant sciences (including crop production, plant breeding, agroecology, soil biology)

Notes:

1: horticultural systems, nutritional traits, health properties, antinutritional factors, cultural practices

2: organic amendments, irrigation, plant nutrition, LCA, green infrastructures