CURRICULUM VITAE ET STUDIORUM OF GIANLUCA CARUSO

Ph.D. in Productivity of Herbaceous Crops in Mediterranean Environment.

Associate Professor in Vegetables and Flowers scientific and teaching sector.

Scientific experiences at the Institute for Plant Science Research, Cambridge (UK) and at the Department of Biology, University of York (UK).

Teaching of 'Agronomy', 'Vegetable Crops', 'Greenhouse Crop Systems', 'Vegetable and Flower Crops', 'Vegetal Productions' at University of Naples Federico II and University of Molise.

Research on vegetable crop systems, focusing on conventional, organic and soilless management both in greenhouse and open field, planting patterns, nutrition, selenium, biomass valorization, beneficial microorganisms.

Reviewer activity for about forty international journals, among which Scientia Horticulturae; HortScience; Journal of Horticultural Science and Biotechnology; Biological Agriculture and Horticulture; Agronomy; Agronomy for Sustainable Development; Antioxidants; Biomolecules; Foods; Metabolites; Nutrients; Water; International Journal of Environmental Research and Public Health; Industrial Crops and Products; Journal of Food Processing Engineering; Crop Science.

Member of the Scientific Society of Horticulture, Scientific Society of Agronomy and International Society of Horticultural Science.

Member of the following Editorial Boards: Jacobs Journal of Plant Biology (Editor in Chief), International Journal of Plant Science and Horticulture (Editor in Chief), Banat's Journal of Biotechnology, Folia Horticulturae, Journal of Agriculture Food Development, Lucrări ştiinţifice, Vegetables of Russia, Plants (Guest Editor of the Special Issue 'Factors Affecting Yield, Quality, Antioxidants, Mineral Composition and Residual Biomass Valorization of Vegetable Crops'), Agriculture (Guest Editor of the Special Issue '.

Participation to several regional, national and international scientific projects.

Speaker at national and international symposiums.

Authors of 136 papers published in national and international Journals, among which:

- Caruso G. et al. 2011. Effects of cultural cycles and nutrient solutions on plant growth, yield and fruit quality of alpine strawberry (*Fragaria vesca* L.) grown in hydroponics. Sci. Hortic. 129, 479-485.
- Caruso G. et al. 2014. Effects of transplanting time and plant density on yield, quality and antioxidant content of onion (*Allium cepa* L.) in southern Italy. Sci. Hortic. 166, 111-120.
- Conti S., … Caruso G., 2014. Effects of organic vs. conventional farming system on yield and quality of strawberry grown as an annual or biennial crop in southern Italy. Sci. Hortic. 180, 63-71.
- Ercolano M.R., … Caruso G., 2015. Residual biomass saccharification in processing tomato is affected by cultivar and nitrogen fertilization. Biomass Bioenerg. 72, 242-250.
- Conti S., … Caruso G., 2015. Effects of production system and transplanting time on yield, quality and antioxidant content of organic winter squash (*Cucurbita moschata* Duch.). Sci. Hortic. 183, 136-143.
- Golubkina N.A., … Caruso G., 2017. Intersexual differences in plant growth, yield, mineral composition and antioxidants of spinach (*Spinacia oleracea* L.) as affected by selenium form. Sci. Hortic. 225, 350-358.
- Gomez L.D., … Caruso G., 2017. Valorising faba bean residual biomass: effect of farming system and planting time on the potential for biofuel production. Biomass Bioenerg. 107, 227-232;
- Caruso G. et al. 2018. Crop systems, quality and protection of *Diplotaxis tenuifolia*. Agriculture 8, 55.
– Golubkina N., Kekina H., Caruso G., 2018. Foliar biofortification of Indian mustard (*Brassica juncea* L.) with selenium and iodine. Plants, 7 (4), 80.
- Caruso G. et al. 2019. Production, leaf quality and antioxidants of perennial wall rocket as affected by crop cycle and mulching type. Agronomy, 9, 194.
– Golubkina N., … Caruso G., 2019. Effect of selenium biofortification and beneficial

microorganism inoculation on yield, quality and antioxidant properties of shallot bulbs. Plants, 8, 102.
- Sellitto V.M., … Caruso G., 2019. Tomato yield, quality, mineral composition and antioxidants as affected by beneficial microorganisms under soil salinity induced by balanced nutrient solutions. Agriculture 2019, 9, 110.
– Caruso G. et al. 2019. Protein Hydrolysate or Plant Extract-based Biostimulants Enhanced Yield and Quality Performances of Greenhouse Perennial Wall Rocket Grown in Different Seasons. Plants, 8, 208.
– Amalfitano C., … Caruso G., 2019. Yield, Antioxidant Components, Oil Content, and Composition of Onion Seeds Are Influenced by Planting Time and Density. Plants, 8, 293.
- Caruso G. et al. 2019 Yield and Nutritional Quality of Vesuvian Piennolo Tomato PDO as affected by Farming System and Biostimulant Application. Agronomy 9, 505.
- Golubkina N., … Caruso G. 2020. Effects of Arbuscular Mycorrhizal Fungi on Yield, Biochemical Characteristics, and Elemental Composition of Garlic and Onion under Selenium Supply. Plants 9, 84.
- Golubkina N,, … Caruso G., 2020. Prospects of Arbuscular Mycorrhizal Fungi Utilization in Production of Allium Plants. Plants, 9, 279.
- Teliban G.-C., … Caruso G. Biochemical, Physiological and Yield Characteristics of Red Basil as Affected by Cultivar and Fertilization. Agriculture, 10, 48.
- Kopta T., … Caruso G., 2020. Screening of Chilli Pepper Genotypes as a Source of Capsaicinoids and Antioxidants under Conditions of Simulated Drought Stress. Plants 9, 364;
- Golubkina N., … Caruso G., 2020. Yield, Essential Oil and Quality Performances of Artemisia dracunculus, Hyssopus officinalis and Lavandula angustifolia as Affected by Arbuscular Mycorrhizal Fungi under Organic Management. Plants 9, 375.
- Golubkina N.A., … Caruso G., 2020. Yield, Growth, Quality, Biochemical Characteristics and Elemental Composition of Plant Parts of Celery Leafy, Stalk and Root Types Grown in the Northern Hemisphere. Plants 9, 484.