CURRICULUM OF PAOLO BENINCASA

PERSONAL DATA
- Date and place of born: 21 November 1966, Terni, Italy.
- Civil status: married and father of three daughters

CURRENT EMPLOYMENT
- Associate Professor at the Dept. of Agricultural, Food and Environmental Sciences, University of Perugia.

UNIVERSITY EDUCATION AND SCIENTIFIC ACTIVITY
- 1991: MSc degree with laude in Agricultural Sciences at the University of Perugia.

- 1995: PhD diploma in Crop Physiology. During the course he spends 8 months in Australia at the Research School of Biological Sciences (RSBS), ANU, Canberra ACT.

- 1991-2002: continuous research activity at the Dept of Agricultural, Food and Environmental Sciences of the University of Perugia thanks to several temporary grants: PhD scholarship, Post-Doc, several contracts for collaboration to research.

- 2002-2013: permanent Researcher at the Dept. of Agricultural, Food and Environmental Sciences, University of Perugia.

SCIENTIFIC OUTPUTS

- 84 scientific papers, published in international and national journals or proceedings.
- 48 oral or poster contributions, in Italy or abroad.
- Participation to 22 national research projects (COFIN/PRIN, FISR).

MEMBERSHIP IN SCIENTIFIC SOCIETES, EDITORIAL BOARD, REFEREE BOARD

- Member of SIA (Italian Society of Agronomy).
- Member of CIEC (International Scientific Centre of Fertilisers).
- Member of the editorial board of Agroecology and Sustainable Food Systems (Taylor and Francis) and of Experimental Agriculture (Cambridge University Press).

- Scientific secretary of the International ISHS Symposium on Towards ecologically sound fertilisation strategies in field vegetable production, held in Perugia on 7-10 June 2004.

- Editor of the Symposium Proceedings, published as Acta Horticulturae n. 700.

- Peer reviewer for Agroecology and Sustainable Food Systems, Agronomy Journal, European Journal of Agronomy, Experimental Agriculture, HortTechnology, Italian Journal of Agronomy, International Journal of Plant Production, Journal of Integrative Agriculture.

RESEARCH TOPICS

Crop physiology; crop light balance; crop growth; crop nutrition, water stress; conventional and low input cropping systems; conservative tillage; green manures; intercrops; arable crops (sunflower, soybean, wheat, maize, rapeseed, …); vegetable crops (processing tomato, lettuce, sweet pepper, melon, wild asparagus…); seed germination; sprouts.

UNIVERSITY TEACHING
- 2003-present: 6 to 12 ECTS per year in different BSc and MSc courses of the University of Perugia, dealing with crop sciences and technology (agronomy, eco-physiology, arable crops) and with seed science and technology.

- 2006-2010: 3 ECTS per year in the International BSc (Honours) in Mediterranean Agro-ecosystems Management, dealing with crop sciences and technology, held at the University of Malta.

- 2002-present: supervision of 20 MSc. and BSc. thesis and 3 PhD thesis

MAIN PUBLICATIONS

PUBLICATIONS IN INTERNATIONAL JOURNALS

27) Tosti G., Benincasa P., Farneselli M., Tei F., Guiducci M. (2014). Barley–hairy vetch mixture as cover crop for green manuring and the mitigation of N leaching risk. *European Journal of Agronomy* 54:34–39.

26) Benincasa P., Massoli A., Polegri L., Concezzi L., Onofri A., Tei F. (2014). Optimising the use of plastic protective covers in field grown melon on a farm scale. *Italian Journal of Agronomy* 9, 556:8-14.

25) Benincasa P., Pace R., Quinet M., Lutts S. (2013). Effect of salinity and priming on seedling growth in rapeseed (Brassica napus var oleifera Del.). *Acta Scientiarum – Agronomy*  35(4):479-486.

24) Marconi G., Pace R., Traini A., Raggi L., Lutts S., Chiusano M., Guiducci M., Falcinelli M., Benincasa P., Albertini E. (2013). Use of MSAP Markers to Analyse the Effects of Salt Stress on DNA Methylation in Rapeseed (Brassica napus var. oleifera). *PLOS ONE* 01/2013; 8(9):e75597.

23) Trevini M., Benincasa P., Guiducci M. (2013). Strip tillage effect on seedbed tilt and maize production in Northern-Italy as case-study for the Southern Europe environment. *European Journal of Agronomy*, 48: 50-56. ISSN: 1161-0301.

22) Farneselli M., Benincasa P., Tosti G., Pace R., Tei F., Guiducci M. (2013). Nine-year results on maize and processing tomato in an organic and in a conventional low input cropping system. *Italian Journal of Agronomy*, Vol. 8 pag. 9-13. ISSN 1125-4718.

21) Pace R., Benincasa P., Ghanem M.E., Quinet M., Lutts S. (2012). Germination of untreated and primed seeds in rapeseed (Brassica napus var oleifera Del) under salinity and low matric potential. *EXPERIMENTAL AGRICULTURE*, vol. 48, p. 238-251, ISSN: 0014-4797, doi: 10.1017/S0014479711001189.

20) P. Benincasa, Pace R., Tosti G., Tei F. (2012). Early interspecific interference in the wheat/faba bean (Triticum aestivum/Vicia faba ssp. minor) and rapeseed/squarrosum clover (Brassica napus var. oleifera/Trifolium squarrosum) intercrops. *ITALIAN JOURNAL OF AGRONOMY*, vol. 7, p. 39-45, ISSN: 2039-6805, doi: 10.4081/ija.2012.e24.

19) Tosti G., Benincasa P., Farneselli M., Pace R., Tei F., Guiducci M., Thorup-Kristensen K. (2012). Green manuring effect of pure and mixed barley hairy vetch winter cover crops on maize and processing tomato N nutrition. *EUROPEAN JOURNAL OF AGRONOMY*, p. 136-146, ISSN: 1161-0301, doi: 10.1016/j.eja.2012.06.004.

18) Ulissi V., Antonucci F., Benincasa P., Farneselli M., Tosti G., Guiducci M., Tei F., Costa C., Pallottino F., Menesatti P. (2011). Nitrogen content estimation on tomato leaves by VIS-NIR non destructive spectral reflectance system. *SENSORS*, vol. 11 / 2011, p. 6411-6424, ISSN: 1424-8220, doi: 10.1111/j.1365-3180.2011.00870.x.

17) Ulissi V., Antonucci F., Costa C., Benincasa P., Menesatti P. (2011). Morphological variation on tomato leaves due to different nitrogen contents. *E-JOURNAL - CIGR*, vol. 13, p. 1-7, ISSN: 1682-1130.

16) BENINCASA P.; GUIDUCCI M.; TEI F. (2011). The Nitrogen Use Efficiency: Meaning and Sources of Variation - Case Studies on Three Vegetable Crops in Central Italy. *HortTechnology*, vol. 21 /2011, p. 266-273, ISSN: 1063-0198.

15) Farneselli M., Benincasa P., Tei F. (2010). Validation of N nutritional status tools for processing tomato. *Acta Horticulturae*, vol. 852, p. 227-232, ISSN: 0567-7572.

14) PACE R; BENINCASA P. (2010). Effect of salinity and low osmotic potential on the germination and seedling growth of rapeseed cultivars with different stress tolerance. *Italian Journal of Agronomy*, 5: 69 – 77, ISSN: 1125-4718.

13) Tosti G., Benincasa P., Guiducci M. (2010). Competition and facilitation in hairy vetch-barley intercrops. *Italian Journal of Agronomy*, 5: 239 – 247, ISSN: 2039-6805.

12) BENINCASA P., TOSTI G., TEI F., GUIDUCCI M. (2010). Actual N availability from winter catch crops used for green manuring in maize cultivation. *Journal of Sustainable Agriculture*, vol. 34 (7), p. 705-723, ISSN: 1044-0046.

11) TEI F.; BENINCASA P.; FARNESELLI M.; CAPRAI M. (2010). Allotment Gardens for Senior Citizens in Italy: Current Status and Technical Proposals. *Acta Horticulturae*, vol. 881, p. 91-96, ISSN: 0567-7572.

10) Onofri A., Beccafichi C., Benincasa P., Guiducci M., Tei F. (2009). Is CropSyst adequate for management-oriented simulation of growth and yield of processing tomato? *Journal of Applied Horticulture*, p. 17-22, ISSN: 0972-1045.

9) TOSTI G., BOLDRINI A., BENINCASA P., TEI F., GUIDUCCI M. (2008). The N Nutritional Status of Processing Tomato Grown after Green Manures. *Italian Journal of Agronomy*, vol. 3/2008, p. 275-276, ISSN: 1125-4718.

8) Benincasa P., Tei F., Rosati A. (2007). Plant density and genotype effects on wild asparagus (*Asparagus acutifolius* L.) spear yield and quality. *HortScience*, 42, 5: 1163-1166. ISSN 0018-5345.

7) Benincasa P., Beccafichi C., Guiducci M., Tei F. (2006). Source-sink relationship in processing tomato as affected by fruit load and nitrogen availability. *Acta Horticulturae*, 700: 63-66 ISSN 0567-7572. ISBN 90 6605 260 0.

6) Tei F., Benincasa P., Guiducci M. (2003). Critical nitrogen concentration in lettuce. *Acta Horticulturae*,627, 187-194. ISSN 0567-7572, ISBN 9066053208.

5) Beccafichi C., Benincasa P., Guiducci M., Tei F. (2003). Effect of crop density on growth and light interception in greenhouse lettuce. *Acta Horticulturae*, 614, 507-513. ISSN 0567-7572, ISBN 9066053003.

4) Tei F., Benincasa P., Guiducci M. (2002). Effect of N availability on growth, N uptake, light interception and photosynthetic activity in processing tomato. *Acta Horticulturae*, 571, 209-213. ISSN 0567-7572, ISBN 90 6605 815 3.

3) Tei F., Benincasa P., Guiducci M. (2002). Critical nitrogen concentration in processing tomato. *European Journal of Agronomy*, 18, 45-55. ISSN: 1161-0301.

2) Tei F., Benincasa P., Guiducci M. (2000). Effect of nitrogen availability on growth and nitrogen uptake in lettuce. *Acta Horticulturae*, 533, 385-392. ISSN 0567-7572 ISBN 90 6605 942 7.

1) Tei F., Benincasa P., Guiducci M. (1999). Nitrogen fertilisation of lettuce, processing tomato and sweet pepper: yield, nitrogen uptake and the risk of nitrate leaching. *Acta Horticulturae*, 506, 61-67. ISSN 0567-7572, ISBN 90 6605 802.

CHAPTER IN INTERNATIONAL BOOK

1) AGOSTINI F; TEI F.; SILGRAM M; FARNESELLI M; BENINCASA P; ALLER M.F (2010). Decreasing nitrate leaching in vegetable crops through improvements in N fertiliser management In: E. Lichtfouse, *Genetic Engineering, Biofertilisation, Soil Quality and Organic Farming*. Vol. 4, p. 147-200. ISBN: 9789048187409, doi: 10.1007/978-90-481-8741-6\_6.