

Name and Surname: Lara Abou Chehade
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Academic titles and professional experience

July 2023 – present

Post-doctoral researcher at the Division on Impacts on Agriculture, Forests and Ecosystem services of the Euro-Mediterranean Center on Climate Change, Sassari, Italy
Research topic: Extensive farming and agroecological practices impacts on ecosystem services and their role in climate change mitigation and adaptation

February 2020 – January 2023

Post-doctoral researcher at the Department of Agriculture, Food and Environment of the University of Pisa, Pisa, Italy
Research topic: Evaluation of minor genetic resources and landraces of legumes and oilseeds for the agroecological transition and the development of innovative food systems

November 2018 – August 2019

Research grant holder at the Center for Agri-environmental Research “Enrico Avanzi” of the University of Pisa, Pisa, Italy
Research topic: Effects of conservation and organic agriculture practices on the agronomic performance of processing tomato

October 2015 – March 2019

PhD in Agronomy from the Department of Agriculture, Food and Environment of the University of Pisa, Pisa, Italy
Research topic: Performance of field vegetable cropping systems under organic farming: effects of tillage and cover crop management

October 2013 – July 2015

Master of Science in Mediterranean Organic Agriculture from The Mediterranean Agronomic Institute of Bari, Valenzano, Italy

October 2008 – October 2013

Master of Science in Agricultural Sciences sp. Plant production from The Faculty of Agricultural and Veterinary Sciences of the Lebanese University, Beirut, Lebanon

Other scientific and professional experience

26 September – 26 October 2022

Visiting researcher at the legume breeding department of The International Center for Agricultural Research in the Dry Areas (ICARDA), Terbol, Lebanon

25 June – 3 August 2018

Research internship at the Laboratory of Plant Physiology, Department of Plant Physiology and Soil Sciences of the University of Vigo, Vigo, Spain

6 June – 5 July 2016

Research internship at the Laboratory of Postharvest Technology, Department of Agricultural Sciences, Food, Natural Resources and Engineering of the University of Foggia, Foggia, Italy

Professional skills

Experimental planning; Experience in field and laboratory data collection; Data analysis; Supervision; Networking and multidisciplinary collaboration; Scientific dissemination

Languages

Arabic - Mother tongue; English - Proficient in speech and writing; French - Proficient in speech and writing; Italian - Advanced in speech and writing

Publications in peer-reviewed journals

Fontanelli M., Frasconi C., Raffaelli M., Martelloni L., Abou Chehade L. and Peruzzi A. Can flaming be performed as selective weed control treatment in turfgrass? (2017) *Chemical Engineering transactions* 58:241-246.

Abou Chehade L., Al Chami Z., de Pascali S. A., Cavoski I. and Fanizzi F. P. (2018). Biostimulants from food processing by-products: agronomic, quality and metabolic impacts on organic tomato (*Solanum lycopersicum* L.). *Journal of the Science of Food and Agriculture* 98(4):1426-1436.

Abou Chehade L., Fontanelli F., Martelloni L., Frasconi C., Raffaelli M. and Peruzzi A. (2018). Effects of flame weeding on organic garlic production. *HortTechnology* 28(4):502-508.

Frasconi C., Martelloni L., Raffaelli M., Fontanelli M., Abou Chehade L., Peruzzi A. and Antichi D. (2019). A field vegetable transplanter for use in both tilled and no-till soils. *Transactions of the ASABE* (American Society of Agricultural and Biological Engineers) 62(3):593-602.

Abou Chehade L., Antichi D., Martelloni L., Frasconi C., Sbrana M., Mazzoncini M. and Peruzzi A. (2019). Evaluation of the agronomic performance of organic processing tomato as affected by different cover crop residues management. *Agronomy* 9(9):504.

Antichi D., Sbrana M., Martelloni L., Abou Chehade L., Fontanelli M., Raffaelli M., Mazzoncini M., Peruzzi A. and Frasconi C. (2019). Agronomic performances of organic field vegetables managed with conservation agriculture techniques: a study from Central Italy. *Agronomy* 9(12):810.

Angelini L. G., Abou Chehade L., Foschi L. and Tavarini S. (2020). Performance and potentiality of camelina (*Camelina sativa* L. Crantz) genotypes in response to sowing date under Mediterranean environment. *Agronomy* 10(12):1929.

Abou Chehade L., Puig C. G., Souto C., Antichi D., Mazzoncini M. and Pedrol N. (2021). Rye (*Secale cereale* L.) and squarrose clover (*Trifolium squarrosum* L.) cover crops can increase their potential for weed control when used mixed as dead mulch. *Italian Journal of Agronomy* 16:1869.

Abou Chehade L., Angelini L. G. and Tavarini S. (2022). Genotype and seasonal variation affect yield and oil quality of safflower (*Carthamus tinctorius* L.) under Mediterranean conditions. *Agronomy* 12:122.

Abou Chehade L., Antichi D., Frasconi C., Sbrana M., Tramacere L. G., Mazzoncini M. and Peruzzi A. (2023). Legume cover crop alleviates the negative impact of no-till on tomato productivity in a Mediterranean organic cropping system. *Agronomy*, 13(8), 2027.

Contributions to conference proceedings

Abou Chehade L., Al Chami Z., De Pascali S., Cavoski I. and Fanizzi F.P., Bio-effectors from waste materials as growth promoters for tomato plants, an agronomic and metabolomic study, *EGU General Assembly*. April 2015, Vienna, Austria (poster).

Abou Chehade L., Antichi D., Martelloni L., Peruzzi A., Mazzoncini M. and Carlesi S. Tillage and cover crop effects on weed management and community changes in organic tomato cropping system. *Proceedings of the joint workshop of the EWRS working groups physical and cultural weed control and crop-weed interactions: Physical and cultural weed control tools as moderators of crop weed interactions*. April 2017, Nyon, Switzerland (poster).

Frasconi C., Martelloni L., Raffaelli M., Fontanelli M., Antichi D., Abou Chehade L., Pirchio M. and Peruzzi A. Developing techniques and equipments for the management of organic and conservative horticultural systems. *11th International AIIA Conference: Biosystems Engineering addressing the human challenges of the 21st century*. July 2017, Bari, Italy (poster).

Peruzzi A., Benvenuti S., Fontanelli M., Frasconi C., Martelloni L., Pirchio M., Raffaelli M. and Abou Chehade L. Alternative methods for weed control in urban areas. *11th International AIIA Conference: Biosystems Engineering addressing the human challenges of the 21st century*. July 2017, Bari, Italy (poster).

Alberghini B., Berzuni S., Zanetti F., Vecchi A., Tavarini S., Galasso I., Clemente C., Abou Chehade L., Angelini L., Dalle Zotte A. and Monti A. Camelina a new source of healthy oil and cake: effect of variety choice and growing conditions. *50th National Congress of the Italian Society of Agronomy*. September 2021, Udine, Italy (poster).

Abou Chehade L., Antichi D., Frasconi C., Mazzoncini M., Sbrana M., Tramacere L.G. and Peruzzi A. Evaluating rye and squarrose clover cover crops for no-till organic tomato production. *III Convegno AISSA#under40*. July 2022, Bolzano, Italy (poster).