



***Curriculum vitae* breve di Roberto Mancinelli**

Roberto Mancinelli è Professore Associato nel settore scientifico disciplinare AGR-02 (Agronomia e coltivazioni erbacee) presso il Dipartimento di Scienze Agrarie e Forestali (DAFNE).

Ha conseguito la Laurea in Scienze Agrarie nel 1995 e il titolo di Dottore di Ricerca in Scienze Ambientali nel 2001 presso l'Università degli Studi della Toscana.

Dal 1995 al 2002 ha svolto l'attività di ricerca presso il Dipartimento di Produzione Vegetale dell'Università della Toscana come contrattista, borsista e dottorando.

Dal 1995 al 2002 ha partecipato a diversi corsi di aggiornamento e specializzazione in agroecologia.

Nel 1996 consegue l'abilitazione di Dottore Agronomo e dal 1997 è iscritto all'Ordine di Chieti.

Da luglio 1999 a marzo 2000 ha svolto attività di ricerca come "Visiting Research Scholar" presso il "Department of Vegetable Crops" della University of California.

Dal 2002 vince il concorso per Ricercatore e svolge la sua attività di ricerca presso il Dipartimento di Produzione Vegetale e didattica presso la Facoltà di Agraria dell'Università della Toscana.

Dal 2003 al 2015 è membro del Collegio dei Docenti del Dottorato di Ricerca in Scienze Ambientali presso l'Università degli Studi della Toscana.

Dal 2013 è membro del Collegio dei Docenti del Dottorato di Ricerca in Scienze delle Produzioni Vegetali e Animali presso il Dipartimento di Scienze e Tecnologie per l'Agricoltura, le Foreste, la Natura e l'Energia (DAFNE) dell'Università degli Studi della Toscana.

Nel 2014 ha conseguito l'abilitazione alle funzioni di Professore Associato nell'ambito dell'Abilitazione Scientifica Nazionale (ASN) Tornata 2012, per il Settore concorsuale 07/B1, Settore scientifico disciplinare AGR02 (Agronomia e Coltivazioni Erbacee).

Nel 2015 è risultato idoneo nella Procedura valutativa a n. 1 posto di Professore Associato - Legge 240/2010 s.c. 07/B1- s.s.d. AGR/02, e quindi svolge la sua attività di ricerca e insegnamento presso il Dipartimento di Scienze Agrarie e Forestali.

Nel 2017 (04 aprile) ha conseguito l'abilitazione alle funzioni di Professore Ordinario nell'ambito dell'Abilitazione Scientifica Nazionale (ASN) Primo Quadrimestre 2016, per il Settore concorsuale 07/B1, Settore scientifico disciplinare AGR02 (Agronomia e Coltivazioni Erbacee).

Nel 2022 (07 ottobre) ha nuovamente conseguito l'abilitazione alle funzioni di Professore Ordinario nell'ambito dell'Abilitazione Scientifica Nazionale (ASN) Terzo Quadrimestre 2021, per il Settore concorsuale 07/B1, Settore scientifico disciplinare AGR02 (Agronomia e Coltivazioni Erbacee) [validità dal 07/10/2022 al 07/10/2032].

Attività didattica

Titolare dei seguenti corsi di insegnamento:

- “Qualità e certificazione dei processi e delle produzioni vegetali” (dal 2023 ad oggi);
- “Agroecology” (dal 2021 ad oggi);
- “Ecologia Agraria” (dal 2010 ad oggi);
- “Foraggicoltura” (dal 2010 ad oggi);
- "Qualità delle produzioni erbacee" (A.A. 2012/2013);
- "Colture erbacee per la qualità delle produzioni" (A.A. 2011/2012);
- "Qualità e sicurezza delle produzioni vegetali: cereali leguminose e foraggere" (A.A. 2011/2012);
- “Colture industriali” (A.A. 2010/2011);
- “Impatto ambientale e valenza dell’agricoltura ecologica” (dal 2003 al 2010);
- “Tecniche agronomiche in agricoltura biologica” (dal 2007 al 2010);
- “Ecologia applicata” (dal 2007 al 2010);
- “Paesaggio Agrario, Sistemi Erbacei” (A.A. 2008/2009);
- “Agronomia e Coltivazioni Erbacee” (A.A. 2008/2009);
- “Agronomia e Sistemi Colturali” (A.A. 2008/2009).

Relatore o Correlatore di diverse tesi sperimentali, tra cui si ricordano alcune di laurea Magistrale discusse dai Dr.:

Marabottini R.; Poponi M.; Vacca T.C.; Proietti R.; Chiani A.; Barberi A.; Perrotta M.; Cinque V.; Cintio E.; Cosimi M.; Di Felice V.; Muleddu D.; Costanzi S.; Angelini G.; Campanelli D.; Morales Bravo M.; Emili L.; Benedetti A.; Bozzetto D.; Fioretti R.; Lenci F.; Clementucci A.; Giovannelli C.; Cirotto G.; Dapit E.; Casula V.; Gaggiotti V.; Scorsino C.; Anonetti D.; Baraccani I.; Colarossi D.; Evangelista M.; Petri G.; Valente M.; Natili A.; Suraci C.; Musetti D.; Friggi F.; Boccale L.;

Tutor di Dottorandi di Ricerca in Scienze Ambientali e in Scienze delle Produzioni Vegetali e Animali:

Di Tizio Alessandra, Di Felice Vincenzo, Karkalis Konstantinos, Brunetti Paola, Canali Emiliano, Allam Mohamed, Petroselli Verdiana, Atait Mariam

Attività e interessi di ricerca

Dal 1995 a oggi [prima nel Dipartimento di Produzione Vegetale e poi nel Dipartimento di Scienze e Tecnologie per l'Agricoltura, le Foreste, la Natura e l'Energia (DAFNE)] ha partecipato a numerosi progetti di ricerca nazionali (DOCUP Ob. 5B - Regione Lazio; PRAL - Regione Lazio; Progetti MiPAF; PRIN - MIUR; ecc.) e internazionali (Interlink; AsiaLink; Seventh Framework Programme, Leonardo da Vinci - lifelong learning programme, Erasmus+; ecc.) con il ruolo di responsabile o componente di unità operativa o partecipante, focalizzando l'attenzione su aspetti inerenti l'agricoltura ecocompatibile e di interesse agroecologico.

I suoi studi e ricerche sono strettamente connessi alla scienza dell'agroecologia come disciplina base di principi ecologici per studio, progettazione, gestione sostenibile degli agroecosistemi che conservano i livelli produttivi e le risorse naturali, e che sono rilevanti culturalmente e socialmente ed economicamente sostenibili. In particolare, gli aspetti specifici delle attività di ricerca riguardano: l'analisi degli agroecosistemi attraverso l'uso di indicatori di sostenibilità a differenti livelli gerarchici (colturale, aziendale e territoriale); la progettazione e gestione di sistemi colturali biologici e convenzionali; lo studio della fertilità del suolo in gestione convenzionale e alternativa; le strategie agronomiche a compatibilità ambientale nel controllo delle erbe infestanti; l'uso delle cover crop per migliorare la sostenibilità dei sistemi colturali in ambiente mediterraneo; lo studio delle emissioni di gas serra e accumulo di C nel suolo in agroecosistemi in regime di agricoltura

convenzionale e biologica e in sistemi colturali con alternative tecniche agronomiche; effetti di tecniche agronomiche alternative sull'assorbimento di arsenico in diverse colture erbacee e ortive.

Referee a riviste scientifiche, tra cui: Applied Soil Ecology, Journal of Environmental Management, Scientia Horticulturae, Scientia Agricola, African Journal of Biotechnology, Philippine Agricultural Scientist, Ecological Indicators, Soil & Tillage Research, European Journal of Agronomy, Catena, Applied Science, Agronomy, Sustainability.

Altro

- Socio della Società Italiana di Agronomia (SIA)
- Membro del European Network of Organic Agriculture University Teachers (ENOAT)
- Membro dell'Editorial Board della rivista International Journal of Ecosystems and Ecology Science, dal 2012
- E' stato nominato e svolto il ruolo di Guest Editor per la Special Issue "Cover Crops " nella rivista Agriculture del gruppo editoriale MDPI (Multidisciplinary Digital Publishing Institute) nel 2018
- Editorial Board Member della rivista Sustainability del gruppo editoriale MDPI (Basel, Switzerland) dal 2019
- Editorial Board Member della rivista Agriculture del gruppo editoriale MDPI (Basel, Switzerland) dal 2019

La sua attività scientifica è documentata da oltre 180 lavori pubblicati in riviste nazionali e internazionali.

Short Curriculum vitae of Roberto Mancinelli

Roberto Mancinelli is Associate Professor in the scientific sector AGR-02 (Agronomy and Crop Science) at the Department of Agricultural and Forestry Science (DAFNE).

He graduated in Agricultural Science in 1995 and received his Ph.D. in Environmental Science in 2001 at the University of Tuscia.

From 1995 to 2002 he worked as a researcher at the Department of Crop Production of the University of Tuscia as a contractor, and fellow student.

From 1995 to 2002 he participated in several training courses and specialization in agroecology.

In 1996 he obtained the qualification of Doctor of Agronomy and in 1997 he entered the Order of Chieti.

From July 1999 to March 2000, he conducted research as "Visiting Research Scholar" at the "Department of Vegetable Crops" at the University of California.

In 2002 he won the competition for Researcher and carries out his research at the Department of Crop Production and teaching at the Faculty of Agriculture, University of Tuscia.

From 2003 to 2015 member of the Academic Board of the PhD in Environmental Sciences at the University of Tuscia.

From 2013 is a member of the Academic Board of the PhD in Plant Production and Animal Sciences at the Department of Science and Technology for Agriculture, Forestry, Nature and Energy (DAFNE) of the University of Tuscia .

In 2014 was admitted and enabled to the functions of Associate Professor in the competition of National Scientific Habilitation (ASN) of 2012, in the competition sector 07 / B1, scientific sector AGR02 (Agronomy and Crop Science).

In 2015 he has been qualified to Associate Professor in the evaluation procedure according to the Law 240/2010, competition sector 07/B1, scientific sector AGR/02, and then carries out his research and teaching activity at the Department of Agricultural and Forestry Science.

In 2014 (April 4th) he was admitted and enabled to the functions of Full Professor in the competition of National Scientific Habilitation (ASN) of 2016, in the competition sector 07 / B1, scientific sector AGR02 (Agronomy and Crop Science).

In 2022 (October 7th) he was again admitted and enabled to the functions of Full Professor in the competition of National Scientific Habilitation (ASN) of 2021, in the competition sector 07 / B1, scientific sector AGR02 (Agronomy and Crop Science).

Teaching activity

Holder of the following courses of instruction:

- Quality and certification of processes and crop production" (from 2023 to present);
- "Agroecology" (from 2021 to present);
- "Agricultural Ecology" (from 2010 to present);
- "Forage Crops" (from 2010 to present);
- "Quality of Herbaceous Crops Production" (A.Y. 2012/2013);
- "Herbaceous Crops for Product Puality" (2011/2012);
- "Quality and Safety of Crop Productions: cereals, legumes and forage" (2011/2012);
- "Industrial Crops" (A.Y. 2010/2011);
- "Environmental Impact and Importance of Ecological Agriculture" (2003-2010);
- "Agricultural Techniques in Organic Farming" (2007-2010);
- "Applied Ecology" (2007-2010);
- "Agricultural Landscape, Herbaceous Systems" (A.Y. 2008/2009);
- "Agronomy and Herbaceous Crops" (A.A. 2008/2009);
- "Agronomy and Crop Systems" (A.A. 2008-2009).

Supervisor and CoSupervisor of different experimental theses, among which include some of MSc Course discussed by:

Marabottini R.; Poponi M.; Vacca T.C.; Proietti R.; Chiani A.; Barberi A.; Perrotta M.; Cinque V.; Cintio E.; Cosimi M.; Di Felice V.; Muleddu D.; Costanzi S.; Angelini G.; Campanelli D.; Morales Bravo M.; Emili L.; Benedetti A.; Bozzetto D.; Fioretti R.; Lenci F.; Clementucci A.; Giovannelli C.; Cirotto G.; Dapit E.; Casula V.; Gaggiotti V.; Scorsino C.; Anonetti D.; Baraccani I.; Colarossi D.; Evangelista M.; Petri G.; Valente M.; Natili A.; Suraci C.; Musetti D.; Friggi F.; Boccale L.;

Supervisor of PhD students in Environmental Science and in Plant Production and Animal Sciences:

Di Tizio Alessandra, Di Felice Vincenzo, Karkalis Konstantinos, Brunetti Paola, Canali Emiliano, Allam Mohamed, Petroselli Verdiana, Atait Mariam

Activities and research interests

Since 1995 [first in the Department of Crop Production and then in the Department of Science and Technology for Agriculture, Forestry, Nature and Energy (DAFNE)] he has participated in many national research projects (DOCUP Ob. 5B - Regione Lazio; PRAL - Regione Lazio; Progetti MiPAF; PRIN - MIUR; etc.) and international projects (Interlink; AsiaLink; Seventh Framework Programme; Leonardo da Vinci - lifelong Learning program; Erasmus +; etc.) with the role of scientific responsible of research unit or component of research unit or participant of research unit, focusing on aspects of environmentally-friendly agriculture and agro-ecological interest.

His studies and researches are closely related to the science of the agroecology as a discipline based on ecological principles of the study, design, sustainable management of agro-ecosystems that maintains production levels and natural resources, and which are important culturally, socially and economically sustainable. In particular, the specific aspects of the research concern: the analysis of agro-ecosystems through the use of sustainability indicators at different hierarchical levels (field, farm and landscape); the design and management of organic and conventional farming systems; the study of soil fertility in conventional and alternative management; the agronomic strategies in the weed control environmental friendly; the use of cover crop to improve the sustainability of cropping systems in the Mediterranean environment; the study of greenhouse gas emissions and accumulation of soil C in agro-ecosystems under the conventional and organic farming and cropping systems with alternative farming techniques; effects of alternative agronomic techniques on arsenic uptake in different herbaceous and vegetable crops.

Refereed to scientific journals, including: Applied Soil Ecology, Journal of Environmental Management, Scientia Horticulturae, Scientia Agricola, African Journal of Biotechnology, Philippine Agricultural Scientist, Ecological Indicators, Soil & Tillage Research, European Journal of Agronomy, Catena, Applied Science, Agronomy, Sustainability.

Other

- Member of the Italian Society of Agronomy (SIA)
- Member of the European Network of Organic Agriculture University Teachers (ENOAT)
- Editorial Board Member in the journal International Journal of Ecosystems and Ecology Science, since 2012
- Guest Editor for the Special Issue "Cover Crops " in the journal Agriculture of editorial group MDPI (Multidisciplinary Digital Publishing Institute) in 2018
- Editorial Board Member in the journal Sustainability of editorial group MDPI (Basel, Switzerland) since 2019

- Editorial Board Member in the journal Agriculture of editorial group MDPI (Basel, Switzerland) since 2019

Its scientific activity is documented by more than 180 papers published in national international journals.

Pubblicazioni dopo il 2019 / Publications after 2019

- 1) Safahani Langeroudi A.R., Campiglia E., **Mancinelli R.**, Radicetti E., 2019. Can biochar improve pumpkin productivity and its physiological characteristics under reduced irrigation regimes? *Scientia Horticulturae* 247, 195–204. DOI: 10.1016/j.scienta.2018.11.059
- 2) Radicetti E, Osipitan O A, Langeroodi AS, Marinari S, **Mancinelli R**, 2019. CO₂ flux and c balance due to the replacement of bare soil with agro-ecological service crops in mediterranean environment. *Agriculture*, 9(4), 71, 1-13. DOI: 10.3390/agriculture904007
- 3) **Mancinelli R.**, Radicetti E., Muleo R., Marinari M., Bravo I., Papetti P., 2019. Can hairy vetch cover crop affects arsenic accumulation in vegetable crops? *Agriculture*, 9, 89; 1-10. doi:10.3390/agriculture9050089
- 4) Iacona I., Pistelli L., Cirilli M., Gatti L., **Mancinelli R.**, Ripa M.N., Muleo R., 2019. Day-Length Is Involved in Flooding Tolerance Response in Wild Type and Variant Genotypes of Rootstock *Prunus cerasifera* L.. *Frontiers in Plant Science*, 10, Article 546, 1-16. doi: 10.3389/fpls.2019.00546
- 5) Nocente F., De Stefanis E., Ciccoritti R., Pucciarmati S., Taddei F., Campiglia E., Radicetti E., **Mancinelli R.**, 2019 How do conventional and organic management affect the healthy potential of durum wheat grain and semolina pasta traits? *Food Chemistry*, 297: article n. 124884: 1-8. doi: 10.1016/j.foodchem.2019.05.158
- 6) **Mancinelli R.**, Muleo R., Marinari S., Radicetti E., 2019. How Soil Ecological Intensification by Means of Cover Crops Affects Nitrogen Use Efficiency in Pepper Cultivation. *Agriculture* 2019, 9, 145. DOI: 10.3390/agriculture9070145
- 7) **Mancinelli R.**, Nocente F., De Stefanis E., Ciccoritti R., Pucciarmati S., Taddei F., Campiglia E., Papetti P., Radicetti E., 2019. La gestione biologica e convenzionale del frumento duro: rese e potenziale salutare della granella e della pasta. *Tecnica Molitoria*, Vol. 70 - Dicembre 2019.
- 8) Langeroodi A.S., Osipitan O.A., Radicetti E., **Mancinelli R.**, 2020. To what extent arbuscular mycorrhiza can protect chicory (*Cichorium intybus* L.) against drought stress. *Scientia Horticulturae*, 263: 109109. DOI: 10.1016/j.scienta.2019.109109
- 9) Radicetti E, Campiglia E, Safahani Langeroudi AR, Zsembeli J, Mendler-Drienyovszki N, **Mancinelli R**, 2020. Soil carbon dioxide emissions in eggplants based on cover crop residue management. *Nutrient Cycling in Agroecosystems*, 118: 39-55 DOI: 10.1007/s10705-020-10081-x
- 10) Langeroodi A, **Mancinelli R**, Radicetti E, 2020. How Do Intensification Practices Affect Weed Management and Yield in Quinoa (*Chenopodium quinoa* Willd) Crop?. *Sustainability* 12(15), 6103. DOI: 10.3390/su12156103.
- 11) Briz T., von Fragstein und Niemsdorff P., Radicetti E., Moscetti R., Uusitalo E., Iivonen S., Mynttinen R., Moudry jr J., Moudry J., Konvalina P., Kopecky M., Średnicka-Tober D., Kazimierczak R., Talgre L., Matt D., Veromann E, **Mancinelli R.**, Rembiałkowska E., 2020. Knowledge and skills attractive for the employers of the organic sector: A survey across Europe. *Renewable Agriculture and Food Systems*, 35: 710-719. DOI: 10.1017/S1742170519000395
- 12) **Mancinelli R.** Marinari S. Allam M. Radicetti E. 2020. Potential role of fertilizer sources and soil tillage practices to mitigate soil CO₂ emissions in mediterranean potato production systems. *Sustainability (Switzerland)*, 12(20), 8543, pp. 1-14. doi:10.3390/su12208543
- 13) **Mancinelli R.**, Allam M., Petroselli V., Papetti P., Radicetti E., 2020. Effects of soil tillage and fertilization on the arsenic uptake in durum wheat. *Proceedings of the 49th Conference of the*

Italian Society of Agronomy (Dalla Marta A., Ventrella D., Eds.), Bari, Italy, 16th-18th September 2020, pag. 95-96. ISBN 978-88-908499-3-0

- 14) Radicetti E., Allam M., Petroselli V., **Mancinelli R.**, 2020. Effect of soil tillage and fertilization on sorghum (*Sorghum vulgare* Pers.) crop. Proceedings of the 49th Conference of the Italian Society of Agronomy (Dalla Marta A., Ventrella D., Eds.), Bari, Italy, 16th-18th September 2020, pag. 95-96. ISBN 978-88-908499-3-0
- 15) Liburdi K., Esti M., Petroselli V., Mendler-Drienyovszki N., Radicetti E., **Mancinelli R.**, 2021. Catalytic properties of lipoxygenase extracted from different varieties of *Pisum sativum* and *Lens culinaris*. Journal of Food Biochemistry, 45 (2), e13617, pp 1-8. DOI: 10.1111/jfbc.13617
- 16) Petroselli V., Radicetti E., Langeroodi A.S., Allam M., **Mancinelli R.**, 2021. Weed Spectrum in Durum Wheat under Different Soil Tillage and Fertilizer Application in Mediterranean Environment. Sustainability 2021, 13, 7307. DOI: 10.3390/su13137307
- 17) Sgamma T., Forgione I., Luziatelli F., Iacona C., **Mancinelli R.**, Thomas B., Ruzzi M., and Muleo R., 2021. Monochromic radiations provided by lightemitted diode (led) modulate infection and defence response to fire blight in pear trees. Plants 2021, 10, 1886. DOI: 10.3390/plants10091886
- 18) Radicetti, E.; **Mancinelli, R.** 2021. Sustainable Weed Control in the Agro-Ecosystems. Sustainability 2021, 13, 8639. DOI: 10.3390/su13158639.
- 19) Allam, M.; Radicetti, E.; Petroselli, V.; **Mancinelli, R.** 2021. Meta-Analysis Approach to Assess the Effects of Soil Tillage and Fertilization Source under Different Cropping Systems. Agriculture 2021, 11, 823 DOI: 10.3390/agriculture11090823
- 20) Safahani Langeroodi A., **Mancinelli R.**, Radicetti E., 2021. Contribution of biochar and arbuscular mycorrhizal fungi to sustainable cultivation of sunflower under semi-arid environment. Field Crops Research, 273, 108292. DOI: 10.1016/j.fcr.2021.108292
- 21) Radicetti E., Petroselli V., Allam M., **Mancinelli R.**, 2021. Soil tillage and fertilization affect durum wheat and weeds interactions in Mediterranean environment. Proceedings of the 50th Conference of the Italian Society of Agronomy (Dalla Marta A., Ventrella D., Eds.), Udine, Italy, 15th-17th September 2021, pag. 31-32. ISBN 978-88-908499-4-7
- 22) **Mancinelli R.**, Petroselli V., Allam M., Radicetti E., 2021. Effects of different soil tillage methods and fertilization on potato crop. Proceedings of the 50th Conference of the Italian Society of Agronomy (Dalla Marta A., Ventrella D., Eds.), Udine, Italy, 15th-17th September 2021, pag. 129-130. ISBN 978-88-908499-4-7
- 23) Arshad, R.N., Abdul-Malek, Z., Jusoh, Y.M.M., Radicetti, E., Tedeschi, P., **Mancinelli, R.**, Lorenzo, J.M., Aadil, R.M., 2022. Sustainable Electroporator for Continuous Pasteurisation: Design and Performance Evaluation with Orange Juice. Sustainability, 14, 1896. <https://doi.org/10.3390/su14031896>
- 24) Marinari S.; Radicetti E.; Petroselli V.; Allam M.; **Mancinelli R.** 2022. Microbial Indices to Assess Soil Health under Different Tillage and Fertilization in Potato (*Solanum tuberosum* L.) Crop. Agriculture, 12, 415. <https://doi.org/10.3390/agriculture12030415>
- 25) Allam, M.; Radicetti, E.; Quintarelli, V.; Petroselli, V.; Marinari, S.; **Mancinelli, R.** 2022. Influence of Organic and Mineral Fertilizers on Soil Organic Carbon and Crop Productivity under Different Tillage Systems: A Meta-Analysis. Agriculture, 12, 464. <https://doi.org/10.3390/agriculture12040464>
- 26) **Mancinelli R.**, Altimari A., Papetti P, Radicetti E., 2022. The customer's preference in light cannabis: an Italian perspective. In Ed. I.F. García-Tejero e V.H. Dur'an-Zuazo, Current

Applications, Approaches, and Potential Perspectives for Hemp: Crop Management, Industrial Usages, and Functional Purposes, Academic Press ELSEVIER, 339-363

- 27) Boccale L., Radicetti E., **Mancinelli R.**, Papetti P., 2022. Effetti di lavorazione e fertilizzazione del suolo sull'assorbimento dell'Arsenico in frumento duro. *Rivista di Agraria.org* | 1 ottobre 2022, 1-6.
- 28) Marinari S., Radicetti E., **Mancinelli R.**, 2022. Soil Quality and Health to Assess Agro-Ecosystems Services. *Agriculture* 2022, 12, 784. <https://doi.org/10.3390/agriculture12060784>
- 29) Abideen Z., Waqif H., Munir N., El-Keblawy A., Hasnain M., Radicetti E., **Mancinelli R.**, Nielsen B.L., Haider G., 2022. Algal-Mediated Nanoparticles, Phycochar, and Biofertilizers for Mitigating Abiotic Stresses in Plants: A Review. *Agronomy* 2022, 12, 1788. <https://doi.org/10.3390/agronomy12081788>
- 30) Munir N., Hanif M., Abideen Z., Sohail M., El-Keblawy A., Radicetti E., **Mancinelli R.**, Haider G., 2022. Mechanisms and Strategies of Plant Microbiome Interactions to Mitigate Abiotic Stresses. *Agronomy* 2022, 12, 2069. <https://doi.org/10.3390/agronomy12092069>
- 31) Langeroodi A.S, Tedeschi P., Allevato E., Stazi S.R., Aadil R.M., **Mancinelli R.**, Radicetti E., 2022. Agronomic response of sunflower subjected to biochar and arbuscular mycorrhizal fungi application under drought conditions. *Italian Journal of Agronomy*, 17(3),2086. [doi:10.4081/ija.2022.2086](https://doi.org/10.4081/ija.2022.2086)
- 32) Farooqi Z.U.R., Ahmad I., Abdul Qadir A., Murtaza G., Rafiq S., Jamal A., Zeeshan N., Murtaza B., Javed W., Radicetti E., **Mancinelli R.**, 2022. Zeolite-Assisted Immobilization and Health Risks of Potentially Toxic Elements in Wastewater-Irrigated Soil under Brinjal (*Solanum melongena*) Cultivation. *Agronomy* 2022, 12, 2433. <https://doi.org/10.3390/agronomy12102433>
- 33) Sarim M., Jan T., Khattak S.A., Mihoub A., Jamal A., Saeed M.F., Soltani-Gerdefaramarzi S., Tariq S.R., Fernández M.P., **Mancinelli R.**, Radicetti E., 2022. Assessment of the Ecological and Health Risks of Potentially Toxic Metals in Agricultural Soils from the Drosh-Shishi Valley, Pakistan. *Land* 2022, 11, 1663. <https://doi.org/10.3390/land11101663>
- 34) Naqqash T., Aziz A., Babar M., Hussain S.B., Haider G., Shahid M., Qaisrani M.M., Arshad M., Hanif M.K., **Mancinelli R.**, Radicetti E., 2022. Lead-Resistant *Morganella morganii* Rhizobacteria Reduced Lead Toxicity in *Arabidopsis thaliana* by Improving Growth, Physiology, and Antioxidant Activities. *Agriculture* 2022, 12, 1155. <https://doi.org/10.3390/agriculture12081155>
- 35) Quintarelli V., Radicetti E., Allevato E., Stazi S.R., Haider G., Abideen Z., Bibi S., Jamal A., **Mancinelli R.**, 2022. Cover Crops for Sustainable Cropping Systems: A Review. *Agriculture* 2022, 12, 2076. <https://doi.org/10.3390/agriculture12122076>
- 36) Atait M., Mancinelli R., Allam M., Petroselli V., Quintarelli V., Radicetti E., 2022. Carbon Flux As Affected By Different Winter Cover Crops. *Proceedings of the 51st Conference of the Italian Society of Agronomy (Dalla Marta A., Maucieri C., Ventrella D., Eds.), Padova, Italy, 19th-21st September 2022*, pag. 139-140
- 37) Quintarelli V., Radicetti E., Petroselli V., Allam M., Mancinelli R., 2022. Weed Community Evolution In Durum Wheat - Potato Rotation After 4-year Of Organic And Mineral Fertilization. *Proceedings of the 51st Conference of the Italian Society of Agronomy (Dalla Marta A., Maucieri C., Ventrella D., Eds.), Padova, Italy, 19th-21st September 2022*, pag. 209-210
- 38) Allam M., Mancinelli R., Petroselli V., Atait M., Quintarelli V., Radicetti E., 2022. Fertilizer Source Affects Crop Yield Under Different Tillage Practices: A Meta-analysis. *Proceedings of*

the 51st Conference of the Italian Society of Agronomy (Dalla Marta A., Maucieri C., Ventrella D., Eds.), Padova, Italy, 19th-21st September 2022, pag. 14-15

- 39) Petroselli V., Radicetti E., Palomba I., Allam M., Atait M., Quintarelli V., Mancinelli R., 2022. Processing Tomato Has Affected By Barrier And Curzate In Different Soil Fertilization. Proceedings of the 51st Conference of the Italian Society of Agronomy (Dalla Marta A., Maucieri C., Ventrella D., Eds.), Padova, Italy, 19th-21st September 2022, pag. 197-198
- 40) Ullah I., Ali H., Mahmood T., Khan M.N., Haris M., Shah H., Mihoub A., Jamal A., Saeed M.F., **Mancinelli R.**, Radicetti E., 2023. Pyramiding of Four Broad Spectrum Bacterial Blight Resistance Genes in Cross Breeds of Basmati Rice. *Plants* 2023, 12, 46. DOI: <https://doi.org/10.3390/plants12010046>
- 41) Hasnain, M.; Munir, N.; Abideen, Z.; Dias, D.A.; Aslam, F.; **Mancinelli, R.**, 2023. Applying Silver Nanoparticles to Enhance Metabolite Accumulation and Biodiesel Production in New Algal Resources. *Agriculture* 2023, 13, 73. <https://doi.org/10.3390/agriculture13010073>
- 42) Ahsan M., Zulfiqar H., Farooq M.A., Ali S., Tufail A., Kanwal S., Shaheen M.R., Sajid M., Gul H., Jamal A., Saeed M.F., **Mancinelli R.**, Radicetti E., 2023. Strigolactone (GR24) Application Positively Regulates Photosynthetic Attributes, Stress-Related Metabolites and Antioxidant Enzymatic Activities of Ornamental Sunflower (*Helianthus annuus* cv. Vincent's Choice) under Salinity Stress. *Agriculture* 2023, 13, 50. <https://doi.org/10.3390/agriculture13010050>
- 43) Radicetti E., Amanullah K., Petroselli V. Atait M., Allam M., Mihoub A., Jamal A., Taab A., Haider G., Mirzaei M., **Mancinelli R.**, 2023. How Does Sustainable Management Practices Affect Weed Flora and Tuber Yield of Potato Crop in Mediterranean Environment?. *Gesunde Pflanzen* (2023). <https://doi.org/10.1007/s10343-023-00953-x>
- 44) Munir, N., Hanif, M., Abideen, Z., Seerat, A., Hamid, M., El-Sheikh, M. A., Radicetti, E., **Mancinelli, R.**, & El-Keblawy, A., 2023. Dry fruit shell-derived biochar increases biosorption potential and detoxification of organic pollutants for land safety. *Land Degradation & Development*, 1–18. <https://doi.org/10.1002/ldr.5000>
- 45) Hasnain M., Munir N., Abideen Z., Macdonald H., Hamid M., Abbas Z., El-Keblawy A., **Mancinelli R.**, Radicetti E., 2023. Prospects for Biodiesel Production from Emerging Algal Resource: Process Optimization and Characterization of Biodiesel Properties. *Agriculture* 2023, 13, 407. <https://doi.org/10.3390/agriculture13020407>
- 46) **Mancinelli R.**, Allam M., Petroselli V., Atait M., Jasarevic M., Catalani, A., Marinari, S., Radicetti, E., Jamal, A., Abideen, Z., Chilosi G., 2023. Durum Wheat Production as Affected by Soil Tillage and Fertilization Management in a Mediterranean Environment. *Agriculture* 2023, 13, 433. <https://doi.org/10.3390/agriculture1302043>
- 47) Hamza M.A., Ishtiaq M., Mehmood M.A., Majid M.A., Gohar M., Radicetti E., **Mancinelli R.**, Iqbal N., Civolani S., 2023. Management of Vegetable Leaf Miner, *Liriomyza* Spp., (Diptera: Agromyzidae) in Vegetable Crops. *Horticulturae* 2023, 9, 255. <https://doi.org/10.3390/horticulturae9020255>
- 48) **Mancinelli R.**, Marinari S., Atait M., Petroselli V., Chilosi G., Jasarevic M., Catalani A., Abideen Z., Mirzaei M., Allam M., Radicetti E., 2023. Durum Wheat–Potato Crop Rotation, Soil Tillage, and Fertilization Source Affect Soil CO₂ Emission and C Storage in the Mediterranean Environment. *Land* 2023, 12, 326. <https://doi.org/10.3390/land12020326>
- 49) Bhatt A., Chen X., Pompelli M.F., Jamal A., **Mancinelli R.**, Radicetti E., 2023. Characterization of Invasiveness, Thermotolerance and Light Requirement of Nine Invasive Species in China. *Plants* 2023, 12, 1192. <https://doi.org/10.3390/plants1205119>

- 50) Allam M., Bazok R., Bordewick-Dell U., Czarniecka-Skubina E., Kazimierczak R., Laikoja K., Luik A., Fuka M.M., Muleo R., Peetsmann E., Petroselli V., Roasto M., Średnicka-Tober D., Veith M., **Mancinelli R.**, Trafialek J., 2023. Assistance Needed for Increasing Knowledge of HACCP Food Safety Principles for Organic Sector in Selected EU Countries. *Sustainability* 2023, 15, 6605. <https://doi.org/10.3390/su15086605>
- 51) Javeed H.M.R., Ali M., Kanwal N., Ahmad I., Jamal A., Qamar R., Zakir A., Andaleeb H., Jabeen R., Radicetti E., **Mancinelli R.**, 2023. Nitrogen Mineralization in Texturally Contrasting Soils Subjected to Different Organic Amendments under Semi-Arid Climates. *Land* 2023, 12, 989. <https://doi.org/10.3390/land12050989>
- 52) Bhatt A., Chen X., Gallacher D.J., Phartyal S.S., Rodriguez-Paez L.A., Pineda-Rodriguez Y.Y., Pompelli M.F., Jamal A., **Mancinelli R.**, Radicetti E., 2023. Storage on Maternal Plants Affects Temperature Requirements during Germination in *Rumex obtusifolius*. *Plants* 2023, 12, 2403. <https://doi.org/10.3390/plants12132403>
- 53) Iacona C., Medori G., Thomas B., Roncasaglia R., Dradi G., Radicetti E., **Mancinelli R.**, Muleo R., Forgione I., 2023. Apical Dominance and Branching in Plantlets of Colt Cherry Lines Expressing Different Light and Auxin Signalling Sensitivities. *Agronomy* 2023, 13, 2018. <https://doi.org/10.3390/agronomy13082018>
- 54) Allam M., Radicetti E., Ben Hassine M., Jamal A., Abideen Z., **Mancinelli R.**, 2023. A Meta-Analysis Approach to Estimate the Effect of Cover Crops on the Grain Yield of Succeeding Cereal Crops within European Cropping Systems. *Agriculture* 2023, 13, 1714. <https://doi.org/10.3390/agriculture13091714>
- 55) Dadach M., Ahmed M.Z., Bhatt A., Radicetti E., **Mancinelli R.**, 2023. Effects of Chloride and Sulfate Salts on Seed Germination and Seedling Growth of *Ballota hirsuta* Benth. And *Myrtus communis* L. *Plants* 2023, 12, 3906. <https://doi.org/10.3390/plants12223906>
- 56) **Mancinelli R.**, Radicetti E., 2024. La fertilizzazione e la lavorazione del suolo influenzano stock di C ed emissioni di CO₂, fertilità del suolo e produzioni di frumento duro e patata avvicendate. *L'Informatore Agrario*, 1/2024, 26-60.
- 57) Munir N., | Hanif M., | Abideen Z., Seerat A., Hamid M., El-Sheikh M.A., Radicetti E., **Mancinelli R.**, El-Keblawy A., 2024. Dry fruit shell-derived biochar increases biosorption potential and detoxification of organic pollutants for land safety. *Land Degradation and Development* 2024, 35: 1477–1494. DOI: 10.1002/ldr.5000
- 58) Gul-Lalay, Ullah S., Shah S., Jamal A., Saeed M.F., Mihoub A., Zia A., Ahmed I., Seleiman M.F., Mancinelli R., Radicetti E., 2024. Combined Effect of Biochar and Plant Growth-Promoting Rhizbacteria on Physiological Responses of Canola (*Brassica napus* L.) Subjected to Drought Stress. *J Plant Growth Regul*, 28 January 2024. <https://doi.org/10.1007/s00344-023-11219-1>
- 59) Catalani, A., Chilosi, G., Jasarevic, M., Morales-Rodríguez, C., Radicetti, E., **Mancinelli, R.**, 2024. Effects of tillage and organic fertilization on potato tuber dry rot under Mediterranean conditions. *Eur J Plant Pathol* (2024). <https://doi.org/10.1007/s10658-024-02892-3>