

## LIST OF PUBLICATIONS

### PEER REVIEWED

- 2018 Brilli L., Lugato E., Moriondo M., Gioli B., Toscano P., Zaldei A., Leolini L., Cantini C., Caruso G., Gucci R., **Merante P.**, Dibari C., Ferrise R., Bindi M., Costafreda-Aumedes S., 2018. Carbon sequestration capacity and productivity responses of Mediterranean olive groves under future climates and management options. *Mitigation and Adaptation Strategies for Global Change*. <https://doi.org/10.1007/s11027-018-9824-x>
- 2018 Giulio Lazzerini, **Paolo Merante**, Stefano Lucchetti & Francesco Paolo Nicese (2018): Assessing environmental sustainability of ornamental plant production: a nursery level approach in Pistoia District, Italy. *Agroecology and Sustainable Food Systems*, 42(8), 911-932. DOI: 10.1080/21683565.2018.1466755
- 2017 **Merante, P.**, Dibari, C., Ferrise, R., Sánchez, B., Iglesias, A., Lesschen, JP., Kuikman, P., Yeluripati, J, Smith, P., Bindi, M. Adopting soil organic carbon management practices in soils of varying quality: implications and perspective for European soils. *Soil and Tillage Research*, (165), January 2017, 95–106. <http://dx.doi.org/10.1016/j.still.2016.08.001>
- 2017 K. Glenk, S. Shrestha, K. Topp, B. Sánchez, A. Igesias, C. Dibari, **P. Merante**. A farm level approach to explore economic trade-offs of soil organic carbon management. *Agricultural Systems*, 151, 33-46, <http://dx.doi.org/10.1016/j.agsy.2016.11.002>
- 2017 D.H. Fleisher, B. Condori, R. Quiroz, A. Alva, S. Asseng, C. Barreda, M. Bindi, R. Ferrise, L. Franke, P.M. Govindakrishnan, D. Harahagazwe, G. Hoogenboom, S. Naresh Kumar, **P. Merante**, C. Nendel, J.E. Olesen, P.S. Parker, D. Raes, R. Raymundo, A. Ruane, C. Stockle, I. Supit, E. Vanuytrecht, J. Wolf, P. Woli, and K.J. Boote. Potato Model Uncertainty Across Common Datasets and Varying Climate. *Global Change Biology*, doi:10.1111/gcb.1341
- 2016 Ingram, J., Mills, J., Dibari, C., Ferrise, R., Ghaley, B.B., Grønbech Hansen, J., Iglesias, A., Karaczun, Z., McVittie, A., **Merante, P.**, Molnar, A., Sánchez, B. Communicating the benefits of soil carbon management to the farming community: the significance of credible, salient and legitimate information. *Journal of Rural Studies*, 48, 115-128, <http://dx.doi.org/10.1016/j.jrurstud.2016.10.005>
- 2015 **Merante, P.**, Van Passel, S., Pacini, C. Using agro-environmental models to design a sustainable benchmark for the sustainable value method. *Agricultural Systems*, 136 (2015), 1-13.
- 2015 Pacini, C., **Merante, P.**, Lazzerini, G., Van Passel, S. Increasing the cost-effectiveness of EU agri-environment policy measures through evaluation of farm field-level environmental and economic performances. *Agricultural Systems*, 136 (2015), 70-78.
- 2015 Lazzerini, G., Dibari, C., **Merante, P.**, Pacini, G.C., Moschini, V., Migliorini, P., Vazzana, C. Identification and mapping the high nature value farmland by the comparison of a combined and species approaches in Tuscany, Italy. *Italian Journal of Agronomy*, 10 (3), pp. 132-143.
- 2014 Ingram, J., Jane Mills, J., Frelih-Larsen, A., Davis, MK., **Merante, P.**, Ringrose, S., Molnar, A., Sánchez, B., Ghaley, B.B., Karaczun, Z., 2014. Managing Soil Organic Carbon: A Farm Perspective. *EuroChoices* 13(2), pp 12-19.
- 2014 Lazzerini, G., Migliorini, P., Moschini, V., Pacini, C., **Merante, P.**, Vazzana C., 2014. A simplified method for the assessment of carbon balance in agriculture: an application in organic and conventional micro-agroecosystems in a long-term experiment in Tuscany, Italy. *Italian Journal of Agronomy* 2014; volume 9:566, pp 52-69.

## BOOKS AND CONTRIBUTIONS TO EDITED VOLUMES

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- 2017 **Merante, P.**, 2017. Normative analysis of various agri-food products (Chaps: from 1 to 6; In Italian). In *Quality Agri-food Products. The normative on the control system*, Zucaro, R. (Ed), CREA, Rome, pp 78, ISBN 978-88-99595-70-8. <http://www.crea.gov.it/prodotti-agroalimentari-di-qualita-la-normativa-di-riferimento-in-materia-di-controlli/>
- 2013 Lazzerini, G., **Merante, P.** Guidelines on the construction of an Environmental Management System in the agro-touristic sector. Implementation of the UNI EN ISO 14001 norm (in Italian). Handbook, Rural and agricultural development department, Project LR34/2001.
- 2013 **Merante, P.** Normative analysis in the organic production: the labeling; organic products national trade (in Italian). In *The control system for the organic products in Italy*, Zucaro, R. (Ed), INEA, Rome. [http://www.inea.it/documents/10179/124894/BIO\\_09\\_12\\_2013.pdf](http://www.inea.it/documents/10179/124894/BIO_09_12_2013.pdf)
- 2011 Buiatti, M., Lazzerini, G., **Merante, P.**, Migliorini, P., Raj Dahal, K., Ferreira, M., Karanja, J., Kühne, J., Walter, A. Biodiversity and Ecosystems. In *Food policies and Sustainability, Slow Food*, Turin, Italy, 2011, ISBN 978-88-8499-279-6.
- 2008 **P. Merante**, G. Lazzerini: Environment and Enterprise. Towards a sustainable management of the enterprise's activity (in Italian). Handbook FloViTur project, Pistoia, ISBN 88-6039-089-3.

## REPORTS (EUROPEAN UNION PROJECTS)

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- 2018 **Merante P.**, Andrade Santos J., Figueiredo S., Singh Badwal T., Molitor D., Menz C., Dibari C., Leolini L., 2018. Dissemination and Communication Plan. Deliverable 5.1, WP 5, CLIM4VITIS Project, WIDESPREAD-05-2017 – Twinning, pp. 28.
- 2018 Brilli L., **Merante P.**, Leolini L., Dibari C., Moriondo M. 'Use of crop models for assessing the vulnerability of agriculture to climate change', Activity Estimation of future climate change vulnerability on the agricultural sectors of Cyprus, Crete and Sicily (including relative database), Deliverable C.4.2, ADAPT2CLIMA project.
- 2017 Gianni Bellocchi, Camilla Dibari, Lorenzo Brilli, Roberto Ferrise, **Paolo Merante**, Marco Bindi. Report on Task H1-XC1 - Sub-task XC1.2. D-XC1.2.1: 'Review of metrics for model evaluation'. D-XC1.2.2: 'Common protocol for model evaluation'. Report FACCE MACSUR pp.7
- 2015 Dibari, C., **Merante, P.**, Ferrise, R., Trombi, G., Bindi, M. Report Workshop 2. Framework Programme, Contribution WP5 Task 5.4, SmartSoil project.
- 2015 **Merante, P.**, Dibari, C., Ferrise, R., Bindi, M., Lesschen, J.P., Kuikman, P., Sanchez, B., Iglesias, A. Report on critical low soil organic matter contents, which jeopardise good functioning of farming systems. Deliverable 2.4 - WP2, Seventh EU Framework Programme, SmartSoil project, pp. 25.
- 2014 Dibari, C., Ferrise, R., **Merante, P.**, Trombi, G., Bindi, M. Report Workshop 1, Tuscany case study. Crop productivity and soil organic carbon management. Seventh EU Framework Programme, Contribution WP5 Task 5.4, SmartSoil project, Florence, 28 February, pp 16.
- 2014 Lazzerini, G., **Merante, P.**, Vazzana; C. Environmental responsibility: biodiversity and soil. Final extension report (in Italian). CASET-PIF project, pp. 37.
- 2012 **P. Merante**, C. Dibari, R. Ferrise, M. Bindi. Summary Report on First Consultation: Decision Support Tool. Seventh EU Framework Programme, Contribution WP5 Task 5.1, SmartSoil project, pp.26.

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- 2010 **Merante, P.**, Pacini, C. Application of the sustainable value concept to a representative dairy farm of Florence Province, Tuscany, under a modelling perspective. Contribution WP4, SVAPPAS project.
  - 2010 Pacini, C., **Merante, P.**, Vazzana, C. Combining farm-level modelling and the sustainable value approach for policy assessment and design on sustainability scenarios. Contribution WP6, SVAPPAS project.
  - 2008 **Merante, P.**, Pacini, C. Report on the state-of-the-art of sustainability approaches in agriculture. Sixth EU Framework Programme, Deliverable 1-WP1, SVAPPAS project.
  - 2008 **Merante, P.**, Pacini, C. A decision on which sustainability aspects to be included and which applications will be worked out. Sixth EU Framework Programme, Milestone 1-WP1, SVAPPAS project.

#### EXTENSION DOCUMENTS

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- 2009 Lazzerini, G., **Merante P.**, Nicese, F.P. Innovative actions in the farm management. New perspectives for the environmental certification of nursery (in Italian). Linea Verde. ISSN: 0394-3704.
- 2008 **P. Merante** et al.: Transnational Cooperation Agri-able. European Competences in Agriculture. Pamphlet, transnational cooperation FloViTur, Sixth EU Framework Programme

#### PRESENTATIONS (SEMINARS - CONFERENCES)

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- 2019 M. Moriondo, **P. Merante**, L. Brilli, L. Leolini, S. Costafreda Aumedes, C. Dibari, G. Padovan, G. Trombi, M. Bindi, *Crop model calibration for assessing climate change impacts on Mediterranean staple crops*. Conference paper, ADAPT2CLIMA 2<sup>nd</sup> International Conference, Crete, Greece, 24-25 June 2019.
- 2019 C. Papadaskalopoulou, A. Karali, G. Lemesios, A. Konsta, D. Charchousi, K.V. Varotsos, M. Markou, **P. Merante**, M. Moriondo, M. Papadopolou, C. Giannakopoulos, M. Loizidou, *Adapt2clima tool: A decision support tool for supporting adaptation planning in agriculture*. Conference paper, ADAPT2CLIMA 2<sup>nd</sup> International Conference, Crete, Greece, 24-25 June 2019.
- 2019 C. Dibari, G. Padovan, **P. Merante**, L. Leolini, J.C.A. Santos, M. Bindi, M. Moriondo. *Transferring scientific knowledge of climate change impact on European viticulture: the Clim4Vitis project*. Poster, ADAPT2CLIMA 2<sup>nd</sup> International Conference, Crete, Greece, 24-25 June 2019.
- 2019 Gloria Padovan, **Paolo Merante**, Luisa Leolini, Sergi Costafreda-Aumedes, Giacomo Trombi, Camilla Dibari, Lorenzo Brilli, Marco Moriondo. *Assessing the climate change impacts on crops by adopting a set of crop performance indicators*. ADAPT2CLIMALIFE14 CCA/GR/000928. Poster, AIAM Conference, Naples, Italy, 11-13 June 2019.
- 2019 Gloria Padovan, **Paolo Merante**, Luisa Leolini, Camilla Dibari, Marco Moriondo, Marco Bindi. *A European project to enhance knowledge and awareness about viticulture suitability under climate change*. Poster, AIAM Conference, Naples, Italy, 11-13 June 2019.
- 2019 **Merante, P.**, Leolini, L., Bindi, M., Moriondo, M. *An overview on climate change effect on viticulture*. Conference paper, International Workshop, CLIM4VITIS, Vila Real, Portugal, 18-20 February 2019. <https://zenodo.org/record/2592343#.XVKvL8RS-70>

- 2019 Leolini L., **Merante P.**, Bindi M., Moriondo M. *Modelling strategies for estimating vine development and growth under different environmental conditions*. Conference paper, International Workshop, CLIM4VITIS, Vila Real, Portugal, 18-20 February 2019. <https://zenodo.org/record/2592684#.XVKtJ8RS-70>
- 2018 Ferrise R., Padovan G., **Merante P.**, Brilli L., Bindi M. *Climate Change as a risk to potato production*. Conference paper for the World Potato Congress - WPC, XXVIII Congreso de la Asociacion Latinoamericana de la Papa - ALAP, Cusco, Perú, May 2018.
- 2017 **Paolo Merante**, Marco Moriondo , Christos Giannakopoulos, Maria Papadopoulou, Camilla Dibari, Lorenzo Brilli, Anna Karali, Giannis Lemesios, Despoina Charchousi, Christina Papadaskalopoulou, Vassilis Tenentes, Konstantinos V. Varotsos, Giacomo Trombi, Luisa Leolini, Sergi Costafreda. *Providing accessible information and adaptation strategies for tackling impacts of climate change on cropping systems. The ADAPT2CLIMA tool*. Poster presented at the First Agroecology Europe Forum, Lyon, France, October, 2017.
- 2017 Domenico Ventrella, Luisa Giglio, Marco Bindi, Bruno Basso, Umberto Bonciarelli, Anna Dallamarta, Francesco Danuso, Luca Doro, Roberto Ferrise, Francesco Fornaro, Pasquale Garofalo, Fabrizio Ginaldi, Ileana Iocola, **Paolo Merante**, Laura Mula, Andrea Onofri, Simone Orlandini, Massimiliano Pasqui, Rodica Tomozeiu, Giulia Villani, Alessandro Vittorio Vonella, Pier Paolo Roggero. *Crop Residue Management as a Strategy of Adaptation and Mitigation to Climate Change*. Poster presented at the MACSUR Conference, Berlin, 2017
- 2016 Ileana Iocola, Daniele Antichi, Bruno Basso, Francesco Danuso, Luca Doro, Roberta Farina, Roberto Ferrise, Fabrizio Ginaldi, **Paolo Merante**, Marco Mazzoncini, Laura Mula, Roberto Orsini, Massimiliano Pasqui, Rodica Tomozeiu, Domenico Ventrella, Giulia Villani, Luigi Zuccaro, Pier Paolo Roggero. *Impacts of climate change on SOC dynamic and crop yield of Italian rainfed wheat-maize cropping systems managed with conventional or conservative tillage practices*. Conference paper, Conference: Proceedings of XLV Conference of Italian Society for Agronomy, At Sassari (Italy), September, 2016
- 2016 Domenico Ventrella, Luisa Giglio, Marco Bindi, Bruno Basso, Umberto Bonciarelli, Anna Dallamarta, Francesco Danuso, Luca Doro, Roberto Ferrise, Francesco Fornaro, Pasquale Garofalo, Fabrizio Ginaldi, Ileana Iocola, **Paolo Merante**, Laura Mula, Andrea Onofri, Simone Orlandini, Massimiliano Pasqui, Rodica Tomozeiu, Giulia Villani, Alessandro Vittorio Vonella, Pier Paolo Roggero. *Evaluation of Crop Residue Management as a Strategy of Adaptation and Mitigation to Climate Change*. Conference paper, Conference: Proceedings of XLV Conference of Italian Society for Agronomy, At Sassari (Italy), September, 2016
- 2015 D.H. Fleisher, B. Condori, R. Quiroz, A. Alva, S. Asseng, M. Bindi, H. Brown, R. Ferrise, L. Franke, P.M. Govindakrishnan, D. Harahagazwe, A. Haverkort, G. Hoogenboom, S. Naresh Kumar, **P. Merante**, C. Nendel, J.E. Olesen, P. S. Parker, D. Raes, R. Raymundo, A. Ruane, B. Searle, C. Stockle, I. Supit, E. Vanuytrecht, J. Wolf, and P. Woli. *AgMIP Potato Model Intercomparison Pilot: First Responses*. ASABE 1st Climate Change Symposium: Adaptation and Mitigation May 3-5, 2015, Chicago, Illinois USA
- 2010 **Merante, P.**, Pacini, G.C., Van Passel, S., Vazzana, C., 2010. *Application of the sustainable value concept to a representative dairy farm of Florence Province, Tuscany, under a modeling perspective*. International Society for Ecological Economics (ISEE) 11th Biennial Conference: Advancing sustainability in a time of crisis, 22–25 August 2010, Oldenburg, Bremen, Germany.