CURRICULUM VITAE



IDENTIFICATION

Last name – First name(s) Address Phone E-mail Nationality Date of Birth OrcID	GRELLA MARCO VIA S. FRANCESCO DI SALES 2, 10064 Pinerolo (TO) +39 0116708610; +39 3495623349 marco.grella@unito.it Italian 10 July 1986 0000-0002-5932-8495
WORK EXPERIENCE	
 • Dec 2021 – present • Ago 2018 – Nov 2018 • Oct 2017 – Nov 2021 • Gen 2017 – Sept 2021 • Gen 2014 – Dec 2016 • Gen 2013 – Dec 2013 • Jun 2012 – Dec 2012 • Mar 2012 – Sept 2012 • Jun 2011 – Dec 2011 • Jun 2010 – Dec 2010 	Researcher (RTDa) of Agricultural Mechanics at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino. Consultant for UpToFarm S.r.l. (Grugliasco, IT). Post-doc at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino. Fellowship at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino. Ph.D. student at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino. Fellowship at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino. Fellowship at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino. Fellowship at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino. Fellowship at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino and Fondazione Nuto Revelli (Cuneo, IT). Consultant for ATELIER PROJET studio associato (Aosta, IT). Fellowship at the ex-faculty of Agriculture of the University of Torino. Fellowship at the ex-faculty of Agriculture of the University of Torino.
ACADEMIC AND INSTITUTIONAL ROLES	
• June 2021 • 2021 – present • 2021 - present	National Scientific Habilitation to the role of Associate professor (AGR/09 Agricultural Mechanic - Sector 07/C1 Agricultural, Forest and Biosystems Engineering) Teacher of the course " <i>Mechanic for precision viticulture</i> " (50CFU) for the Master Degree in Viticultural end Enological Sciences of the DiSAFA – University of Torino. Teacher of the course " <i>Laboratory of ergonomics and Agricultural Safety</i> " (40CFU) for the Bachelor Degree in Sciences and Agricultural Technologies of the DiSAFA – University of
• 2014 - present	Torino. Member of the Department (DiSAFA) board.
EDUCATION AND TRAINING	
• 2017 • 2016 • 2011 • 2011 • 2005 Pagina 1 - Curriculum vitae GRELLA Marco	 Ph.D. in Agricultural, Forest and Agri-Food Sciences (XXIX Cycle) at the Dept. of Agricultural, Forest and Food Sciences of the University of Torino. Attainment of license (national register) as technician for sprayers inspection. Attainment of professional license (national register) regarding the profession of Agronomist and Forest Doctor. Master Degree in Environmental and Forest Sciences at the University of Torino. High School Diploma (Liceo Scientifico A. Monti – Chieri, IT).

PERSONAL SKILLS	
MOTHER TONGUE	Italian
OTHER LANGUAGE(S)	
 Reading Speaking Writing Reading Speaking Writing 	English [B2] [B2] [C1] Spanish [B2] [B2] [B2] [A2]
ORGANIZATIONAL SKILLS	Scientific responsible and/or participant of several national and European projects.
TECHNICAL SKILLS AND COMPETENCES	Expert in the field of Agricultural Mechanics. In particular, the research work focuses on to the development of new technologies aimed to reduce the environmental impact of pesticide spray application with special regards to the spray drift and to test their performances using the international standards (ISO22866:2005). Based on the scientific activities carried out, the alternative methods for the evaluation of potential spray drift generated by sprayers and adopted by National (UNI1607028) and International (ISO22401:2014) regulatory bodies were developed. The research activities is mainly linked to the following topics: agricultural plant protection; crop protection; horticultural crop protection; agricultural technology; ground-based spray application technology; aerial-based spray application technologies (UASS); precision agriculture; variable rate application; chemical-based plant protection products; BCA-based plant protection products; spray drift measurements; spray drift mitigation technology; spray deposition and coverage measurements; droplet size spectra measurements; spray quality evaluation; point source reduction; farm managements of waste liquids containing PPP residues; water quality; soil and water conservation; training on best management practices for crop protection.
DRIVING LICENSES	A3, B
Pagina 2 - Curriculum vitae GRELLA Marco	

OTHER INFORMATION

 NATIONAL PROJECTS diseases crops and open-field vegetables" (grant agreement n. 773718) funded by Europea Union's Horizon 2020 research and innovation program. (<i>Research Unit responsible</i>) PERFECT LIFE project "PEsticide Reduction using Friendly and Environmentally Controlle Technologies" (grant agreement LIFE17ENV/ES/000205) funded by LIFE 2017 financi instrument co-financed by the European Fund for Rural Development (ERDF). (<i>participant</i>) Project "PPP exposure models for 3D orchards considering spraying technologies in Southe Europe" (grant agreement GP/EFSA/ENCO/2020/03) funded by European Food Safety Authori (EFSA). (<i>participant</i>) NOVIAGRI project "New applications of Vegetation Indexes in agriculture" funded by Region Piemonte (FEASR 2014/2020 - Misura 16 del PSR). (<i>participant</i>) DANTE project "Indagine conoscitiva sperimentale per valutare l'efficacia dei Droni per monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonia nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agricultur (Prot. 2017S559BB) funded by Italian Ministry of University and Research. (<i>participant</i>) RILO_2022 project "Svilupoe messa a punto di un sistema a punto fisso per l'applicazione di prodotti fitosanitari in vigneti allevati a spalliera in aree declivi" funded by University of Torin (<i>Project responsible</i>) Project "Testing different spray application techniques/technologies for their effect on canop spray distribution, spray drift and efficacy during wine grapes insecticide spray application funded by FMC corporation (private company). (<i>Project responsible</i>) SCIENTIFIC PUBLICATIONS Author of more than 100 papers, 31 of which indexed on Scopus. Latest publications: Grella, M., Martico, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies ar Novel Farm	NATIONAL PROJECTS	 PERFECT LIFE project "PEsticide Reduction using Friendly and Environmentally Controlled Technologies" (grant agreement LIFE17/ENV/ES/000205) funded by LIFE 2017 financial instrument co-financed by the European Fund for Rural Development (ERDF). (<i>participant</i>) Project "PPP exposure models for 3D orchards considering spraying technologies in Southern Europe" (grant agreement GP/EFSA/ENCO/2020/03) funded by European Food Safety Authority (EFSA). (<i>participant</i>) NOVIAGRI project "New applications of Vegetation Indexes in agriculture" funded by Regione Piemonte (FEASR 2014/2020 - Misura 16 del PSR). (<i>participant</i>) DANTE project "Indagine conoscitiva sperimentale per valutare l'efficacia dei Droni per il monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonica nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agriculture"
 Technologies" (grant agreement LIFE17/ENV/ES/000205) funded by LIFE 2017 finance instrument co-financed by the European Fund for Rural Development (ERDF). (<i>participant</i>) Project "PPP exposure models for 3D orchards considering spraying technologies in Southe Europe" (grant agreement GP/EFSA/ENCO/2020/03) funded by European Food Safety Authori (EFSA). (<i>participant</i>) NOVIAGRI project "New applications of Vegetation Indexes in agriculture" funded by Region Piemonte (FEASR 2014/2020 - Misura 16 del PSR). (<i>participant</i>) DANTE project "Indagine conoscitiva sperimentale per valutare l'efficacia dei Droni per monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonia nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agricultur (Prot. 2017S559BB) funded by Italian Ministry of University and Research. (<i>participant</i>) RILO_2022 project "Sviluppo e messa a punto di un sistema a punto fisso per l'applicazione d prodotti fitosanitari in vigneti allevati a spalliera in aree declivi" funded by University of Torin (<i>Project responsible</i>) Project "Testing different spray application techniques/technologies for their effect on canor spray distribution, spray drift and efficacy during wine grapes insecticide spray application funded by FMC corporation (private company). (<i>Project responsible</i>) SCIENTIFIC PUBLICATIONS Author of more than 100 papers, 31 of which indexed on Scopus. Latest publications: Grella, M., Marucco, P., Liop, J., Gioelli, F. (2023). Special issue on Precision Technologies ar Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Science (Switzerland), 13(3), 1875. Grella, M., Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, (2023). Assessment of fine droplets (<10µm) in primary airborne spray drift: a ne 		 Technologies" (grant agreement LIFE17/ENV/ES/000205) funded by LIFE 2017 financial instrument co-financed by the European Fund for Rural Development (ERDF). (<i>participant</i>) Project "PPP exposure models for 3D orchards considering spraying technologies in Southern Europe" (grant agreement GP/EFSA/ENCO/2020/03) funded by European Food Safety Authority (EFSA). (<i>participant</i>) NOVIAGRI project "New applications of Vegetation Indexes in agriculture" funded by Regione Piemonte (FEASR 2014/2020 - Misura 16 del PSR). (<i>participant</i>) DANTE project "Indagine conoscitiva sperimentale per valutare l'efficacia dei Droni per il monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonica nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agriculture"
 Europe" (grant agreement GP/EFSA/ENCO/2020/03) funded by European Food Safety Authori (EFSA). (participant) NOVIAGRI project "New applications of Vegetation Indexes in agriculture" funded by Region Piemonte (FEASR 2014/2020 - Misura 16 del PSR). (participant) DANTE project "Indagine conoscitiva sperimentale per valutare l'efficacia dei Droni per monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonio nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agricultur (Prot. 2017 S559BB) funded by Italian Ministry of University and Research. (participant) RILO_2022 project "Sviluppo e messa a punto di un sistema a punto fisso per l'applicazione d prodotti fitosanitari in vigneti allevati a spalliera in aree declivi" funded by University of Torin (Project responsible) Project "Testing different spray application techniques/technologies for their effect on canop spray distribution, spray drift and efficacy during wine grapes insecticide spray applicatio funded by FMC corporation (private company). (Project responsible) SCIENTIFIC PUBLICATIONS Author of more than 100 papers, 31 of which indexed on Scopus. Latest publications: Grella, M., Marucco, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies ar Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Science (Switzerland), 13(3), 1875. Grella, M., Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, (2023). Assessment of fine droplets (<10µm) in primary airborne spray drift: a ne 		 Europe" (grant agreement GP/EFSA/ENCO/2020/03) funded by European Food Safety Authority (EFSA). (<i>participant</i>) NOVIAGRI project "New applications of Vegetation Indexes in agriculture" funded by Regione Piemonte (FEASR 2014/2020 - Misura 16 del PSR). (<i>participant</i>) DANTE project "Indagine conoscitiva sperimentale per valutare l'efficacia dei Droni per il monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonica nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agriculture"
 Piemonte (FEASR 2014/2020 - Misura 16 del PSR). (<i>participant</i>) DANTE project "Indagine conoscitiva sperimentale per valutare l'efficacia dei Droni per monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonio nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agricultur (Prot. 2017S559BB) funded by Italian Ministry of University and Research. (<i>participant</i>) RILO_2022 project "Sviluppo e messa a punto di un sistema a punto fisso per l'applicazione d prodotti fitosanitari in vigneti allevati a spalliera in aree declivi" funded by University of Torin (<i>Project responsible</i>) Project "Testing different spray application techniques/technologies for their effect on canop spray distribution, spray drift and efficacy during wine grapes insecticide spray applicatio funded by FMC corporation (private company). (<i>Project responsible</i>) SCIENTIFIC PUBLICATIONS Author of more than 100 papers, 31 of which indexed on Scopus. Latest publications: Grella, M., Marucco, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies ar Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Science (Switzerland), 13(3), 1875. Grella, M., Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, (2023). Assessment of fine droplets (<10µm) in primary airborne spray drift: a ne 		Piemonte (FEASR 2014/2020 - Misura 16 del PSR). (<i>participant</i>) DANTE project "Indagine conoscitiva sperimentale per valutare l'efficacia dei Droni per il monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonica nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agriculture"
 monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonio nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agricultur (Prot. 2017S559BB) funded by Italian Ministry of University and Research. (<i>participant</i>) RILO_2022 project "Sviluppo e messa a punto di un sistema a punto fisso per l'applicazione d prodotti fitosanitari in vigneti allevati a spalliera in aree declivi" funded by University of Torin (<i>Project responsible</i>) Project "Testing different spray application techniques/technologies for their effect on canop spray distribution, spray drift and efficacy during wine grapes insecticide spray applicatio funded by FMC corporation (private company). (<i>Project responsible</i>) SCIENTIFIC PUBLICATIONS Author of more than 100 papers, 31 of which indexed on Scopus. Latest publications: Grella, M., Marucco, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies ar Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Science (Switzerland), 13(3), 1875. Grella, M., Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, (2023). Assessment of fine droplets (<10 µm) in primary airborne spray drift: a needot. 		monitoraggio e la difesA della vite dall'iNsetto di quaranTena prioritario popillia japonica nEwman" funded by Regione Piemonte. PRIN 2017 project "New technical and operative solutions for the use of drones in agriculture"
 (Prot. 2017\$559BB) funded by Italian Ministry of University and Research. (<i>participant</i>) RILO_2022 project "Sviluppo e messa a punto di un sistema a punto fisso per l'applicazione d prodotti fitosanitari in vigneti allevati a spalliera in aree declivi" funded by University of Torin (<i>Project responsible</i>) Project "Testing different spray application techniques/technologies for their effect on canop spray distribution, spray drift and efficacy during wine grapes insecticide spray application funded by FMC corporation (private company). (<i>Project responsible</i>) SCIENTIFIC PUBLICATIONS Author of more than 100 papers, 31 of which indexed on Scopus. Latest publications: Grella, M., Marucco, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies ar Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Science (Switzerland), 13(3), 1875. Grella, M., Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, (2023). Assessment of fine droplets (<10µm) in primary airborne spray drift: a needocial context of the stray application of the droplets (<10µm) in primary airborne spray drift: a needocial context of the stray application of the droplets (<10µm) in primary airborne spray drift: a needocial context of the stray application of the droplets (<10µm) in primary airborne spray drift: a needocial context of the droplets (<10µm) in primary airborne spray drift: a needocial context of the droplets (<10µm) in primary airborne spray drift: a needocial context of the droplets (<10µm) in primary airborne spray drift: a needocial context of the droplets (<10µm) in primary airborne spray drift: a needocial context of the droplets (<10µm) in primary airborne spray drift: a needocial context of the droplets (<10µm) in primary airborne spray drift: a needocial context of the droplets (<10µm) in primary airborne spray drift: a needocial context of the droplets (<10µm) in primary ai		
 prodotti fitosanitari in vigneti allevati a spalliera in aree declivi" funded by University of Torin (<i>Project responsible</i>) Project "Testing different spray application techniques/technologies for their effect on canop spray distribution, spray drift and efficacy during wine grapes insecticide spray application funded by FMC corporation (private company). (<i>Project responsible</i>) SCIENTIFIC PUBLICATIONS Author of more than 100 papers, 31 of which indexed on Scopus. Latest publications: Grella, M., Marucco, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies ar Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Science (Switzerland), 13(3), 1875. Grella, M., Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, (2023). Assessment of fine droplets (<10µm) in primary airborne spray drift: a needoce series of the series of		(. ion zon occobb) funded by funder finitely of chivefory and feedballin. (participant)
 spray distribution, spray drift and efficacy during wine grapes insecticide spray application funded by FMC corporation (private company). (<i>Project responsible</i>) SCIENTIFIC PUBLICATIONS Author of more than 100 papers, 31 of which indexed on Scopus. Latest publications: Grella, M., Marucco, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies ar Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Science (Switzerland), 13(3), 1875. Grella, M., Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, (2023). Assessment of fine droplets (<10µm) in primary airborne spray drift: a net specific spray application. 		RILO_2022 project "Sviluppo e messa a punto di un sistema a punto fisso per l'applicazione dei prodotti fitosanitari in vigneti allevati a spalliera in aree declivi" funded by University of Torino. (<i>Project responsible</i>)
Latest publications: Grella, M. , Marucco, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies an Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Science (Switzerland), 13(3), 1875. Grella, M. , Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, (2023). Assessment of fine droplets (<10μm) in primary airborne spray drift: a ne		Project "Testing different spray application techniques/technologies for their effect on canopy spray distribution, spray drift and efficacy during wine grapes insecticide spray application" funded by FMC corporation (private company). (<i>Project responsible</i>)
(2023). Assessment of fine droplets (<10 μ m) in primary airborne spray drift: a ne		Latest publications: Grella, M. , Marucco, P., Llop, J., Gioelli, F. (2023). Special issue on Precision Technologies and Novel Farming Practices to Reduce Chemical Inputs in Agriculture. Applied Sciences
		Grella, M. , Maffia, J., Dinuccio, E., Balsari, P., Miranda-Fuentes, A., Marucco, P., Gioelli, F. (2023). Assessment of fine droplets (<10 μ m) in primary airborne spray drift: a new methodological approach. Journal of Aerosol Science, 169, 106138.
		Mozzanini, E., Grella, M. , Marucco, P., Balsari, P., Gioelli, F. (2023). Characterization of irrigator emitter to be used as solid set canopy delivery system: which is best for which role in the vineyard? Pest Management Science, 79(2), 584-597.
Dicembrini, E., Eloi Alcatrão, L., Guglieri, G., Balsari, P., Aimonino Ricauda, D., Gay, P. (2022 UAV-spray application in vineyards: Flight modes and spray system adjustment effects of		Biglia, A., Grella, M. , Bloise, N., Comba, L., Mozzanini, E., Sopegno, A., Pittarello, M., Dicembrini, E., Eloi Alcatrão, L., Guglieri, G., Balsari, P., Aimonino Ricauda, D., Gay, P. (2022). UAV-spray application in vineyards: Flight modes and spray system adjustment effects on canopy deposit, coverage, and off-target losses. Science of the Total Environment 845, 157292.
(2022). Effect of the Airblast Settings on the Vertical Spray Profile: Implementation on an O		
Line Decision Ald for Olicus Treatments, Ayronolity, 12 (0).		Garcera, C., Moltó, E., Izquierdo, H., Balsari, P., Marucco, P., Grella, M. , Gioelli, F., Chueca, P. (2022). Effect of the Airblast Settings on the Vertical Spray Profile: Implementation on an On-Line Decision Aid for Citrus Treatments, Agronomy, 12 (6).
Gioelli, F., Grella, M., Scarpeci, T.E., Rollè, L., Dela Pierre, F., Dinuccio, E., (2022). Bi		 (2022). Effect of the Airblast Settings on the Vertical Spray Profile: Implementation on an On-Line Decision Aid for Citrus Treatments, Agronomy, 12 (6). Gioelli, F., Grella, M., Scarpeci, T.E., Rollè, L., Dela Pierre, F., Dinuccio, E., (2022). Bio-Acidification of Cattle Slurry with Whey Reduces Gaseous Emission during Storage with Positive
Gioelli, F., Grella, M. , Scarpeci, T.E., Rollè, L., Dela Pierre, F., Dinuccio, E., (2022). Bi Acidification of Cattle Slurry with Whey Reduces Gaseous Emission during Storage with Positiv Effects on Biogas Production, Sustainability (Switzerland), 14 (19). Godoy-Nieto, A., Miranda-Fuentes, A., Grella, M. , Blanco-Roldán, G.L., Rodríguez-Lizana, A		 (2022). Effect of the Airblast Settings on the Vertical Spray Profile: Implementation on an On-Line Decision Aid for Citrus Treatments, Agronomy, 12 (6). Gioelli, F., Grella, M., Scarpeci, T.E., Rollè, L., Dela Pierre, F., Dinuccio, E., (2022). Bio-Acidification of Cattle Slurry with Whey Reduces Gaseous Emission during Storage with Positive Effects on Biogas Production, Sustainability (Switzerland), 14 (19). Godoy-Nieto, A., Miranda-Fuentes, A., Grella, M., Blanco-Roldán, G.L., Rodríguez-Lizana, A., Gil-Ribes, J.A. (2022). Assessment of Spray Deposit and Loss in Traditional and Intensive Olive
 Gioelli, F., Grella, M., Scarpeci, T.E., Rollè, L., Dela Pierre, F., Dinuccio, E., (2022). Bi Acidification of Cattle Slurry with Whey Reduces Gaseous Emission during Storage with Positiv Effects on Biogas Production, Sustainability (Switzerland), 14 (19). Godoy-Nieto, A., Miranda-Fuentes, A., Grella, M., Blanco-Roldán, G.L., Rodríguez-Lizana, A Gil-Ribes, J.A. (2022). Assessment of Spray Deposit and Loss in Traditional and Intensive Oliv Orchards with Conventional and Crop-Adapted Sprayers. Agronomy 12(8), 1764. Grella, M., Allochis, D., Marucco, P., Balsari, P. (2022). Assessment of External Spray 		 (2022). Effect of the Airblast Settings on the Vertical Spray Profile: Implementation on an On-Line Decision Aid for Citrus Treatments, Agronomy, 12 (6). Gioelli, F., Grella, M., Scarpeci, T.E., Rollè, L., Dela Pierre, F., Dinuccio, E., (2022). Bio-Acidification of Cattle Slurry with Whey Reduces Gaseous Emission during Storage with Positive Effects on Biogas Production, Sustainability (Switzerland), 14 (19). Godoy-Nieto, A., Miranda-Fuentes, A., Grella, M., Blanco-Roldán, G.L., Rodríguez-Lizana, A., Gil-Ribes, J.A. (2022). Assessment of Spray Deposit and Loss in Traditional and Intensive Olive Orchards with Conventional and Crop-Adapted Sprayers. Agronomy 12(8), 1764. Grella, M., Allochis, D., Marucco, P., Balsari, P. (2022). Assessment of External Sprayer Cleaning Efficiency by Comparing Different Cleaning Devices, Sprayer Tank Materials and

	Zwertvaegher, I., Nuyttens, D., Caffini, A., Meroni, F., Rossi, R. (2022). Airblast sprayer electrification for real-time, continuous fan-airflow adjustment according to canopy density during pesticide application in 3D crops How electrification can contribute to increased spray application efficiency VDI Berichte, 2022 (2395), pp. 389-396.
	Grella, M. , Marucco, P., Oggero, G., Manzone, M., Gioelli, F.S., Balsari, P. (2022). Environmental Evaluation of Vineyard Airblast Sprayers Through a Comprehensive Spray Mass- Balance Approach. Lecture Notes in Civil Engineering, 252 LNCE, pp. 383-393.
	Grella, M. , Marucco, P., Zwertvaegher, I., Gioelli, F., Bozzer, C., Biglia, A., Manzone, M., Caffini, A., Fountas, S., Nuyttens, D., Balsari, P. (2022). The effect of fan setting, air-conveyor orientation and nozzle configuration on airblast sprayer efficiency: Insights relevant to trellised vineyards. Crop Protection 155, 105921. DOI: 10.1016/j.cropro.2022.105921
	Grella, M. , Gioelli, F., Marucco, P., Zwertvaegher, I., Mozzanini, E., Mylonas, N., Nuyttens, D., Balsari, P. (2022). Field assessment of a pulse width modulation (PWM) spray system applying different spray volumes: duty cycle and forward speed effects on vines spray coverage. Precision Agriculture, 23(1), 219-252.
	Lamare, A., Zwertvaegher, I., Nuyttens, D., Balsari, P., Marucco, P., Grella, M. , Caffini, A., Mylonas, N., Fountas, S., Douzals, JP. (2022). Performance of a Prototype Boom Sprayer for Bed-Grown Carrots Based on Canopy Deposition Optimization, Ground Losses and Spray Drift Potential Mitigation in Semi-Fiel Conditions. Applied Sciences 12(9), 4462.
	Salas, B., Salcedo, R., Ortega, P., Grella, M. , Gil, E. (2022). Use of ultrasound anemometers to study the influence of air currents generated by a sprayer with an electronic control airflow system on foliar coverage. Effect of droplet size. Computers and Electronics in Agriculture 202, 107381.
	Zwertvaegher, I., Lamare, A., Douzals, JP., Balsari, P., Marucco, P., Grella, M. , Caffini, A., Mylonas, N., Dekeyser, D., Foqué, D., Nuyttens, D. (2022). Boom sprayer optimizations for bed- grown carrots at different growth stages based on spray distribution and droplet characteristics. Pest Management Science 78(4), 1729–1739. DOI: 10.1002/ps.6792
AFFILIATION TO SCIENTIFIC ACADEMIAS	MEMBER OF THE ITALIAN ASSOCIATION OF AGRICULTURAL ENGINEERING (AIIA) MEMBER OF THE EUROPEAN SOCIETY OF AGRICULTURAL ENGINEERS (EURAGENG). MEMBER OF THE ASSOCIATION OF APPLIED BIOLOGISTS (AAB) MEMBER OF CLUB OF BOLOGNA (COB)

Grugliasco, on 10 May 2023

Signature: Grella Marco

Tulle Merro