

PRESENTATION OF PRIMA STOPMEDWASTE PROJECT

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STOP MED WASTE

Innovative Sustainable technologies TO extend the shelf-life of Perishable MEDiterranean fresh fruit, vegetables and aromatic plants and to reduce WASTE













European Commission

WITHIN 2030:



-50% food waste (including fresh fruit and vegetables)

-50% use of synthetic pesticides

+25% organic agriculture



MDPI



A molecules

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Review

Basic Substances, a Sustainable Tool to Complement and Eventually Replace Synthetic Pesticides in the Management of Pre and Postharvest Diseases: Reviewed Instructions for Users

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Abstract: Synthetic pesticides are widely used to protect crops from pathogens and pests, especially for fruits and vegetables, and this may lead to the presence of residues on fresh produce. Improving the sustainability of agriculture and, at the same time, reducing the adverse effects of synthetic pesticides on human health requires effective alternatives that improve the productivity while maintaining the food quality and safety. Moreover, retailers increasingly request fresh produce with the amounts of pesticides largely below the official maximum residue levels. Basic substances are relatively novel compounds that can be used in plant protection without neurotoxic or immune-toxic effects and are still poorly known by phytosanitary consultants (plant doctors), researchers, growers, consumers, and decision makers. The focus of this review is to provide updated information about 24 basic substances currently approved in the EU and to summarize in a single document their properties and instructions for users. Most of these substances have a fungicidal activity (calcium hydroxide, chitosan, chitosan hydrochloride, Equisetum arvense L., hydrogen peroxide, lecithins, cow milk, mustard seed powder, Salix spp., sunflower oil, sodium chloride, sodium hydrogen carbonate, Urtica spp., vinegar, and whey). Considering the increasing requests from consumers of fruits and vegetables for high quality with no or a reduced amount of pesticide residues, basic substances can complement and, at times, replace the application of synthetic pesticides with benefits for users and for consumers. Large-scale trials are important to design the best dosage and strategies for the application of basic substances against pathogens and pests in different growing environments and contexts

Table 5. Examples of requests from the retailer of the amount of the Maximum Residue Leve and Acute reference doses (ARfD).

Retailer		Max. %MRL/ Active Substance	Max. Sum %MRL/Sam- ple	Max. %ARfD/Ac- tive Substance	Max. Sum %ARfD/Sample	Max. Number of Active Substances /Samples
ALDI/ HOFER		70%	80%	70%	80%	3–5
ALBERT HEIJN	on	50%	-	50%	-	-
ASDA	ASDA	80%	-	-	-	-
BILLA	BILLA	100%	-	100%	-	-
DOHLA	Doble	-	70%	-	70%	3–5
EDEKA		70%	-	100%	-	5
EDEKA OWN BRANDS	EDEKA	50%	-	70%	-	5
GLOBUS	Globus	70%	-	70%	100%	5
LIDL		33.3%	80%	100%	-	5
KAUFLAND	Kaufland	33.3%	80%	50%	50%	5
NORMA	NORMA	-	70%	-	70%	5
METRO	METRO	50%	80%	70%	100%	5
MIGROS	MIGROS	-	-	-	-	6
NETTO	Marken-Discount	70%	-	100%	-	5
REWE		50%	100%	70%	100%	5
REWE OWN BRANDS	REWE	50%	100%	50%	-	5
TEGUT	tegut	70%	-	70%	-	Max. 4 (>0.01 mg/kg)
TENGEL MANN		70%	150%	70%	100%	-

Substances, a Sustainable Tool to Complement and Eventually Replace Synthetic Pesticides in the Management of Pre and Postharves! Diseases: Reviewed Instructions for Users. *Molecules* **2022**, *27*, 3484. https://doi.org/10.3390/

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Academic Editor: James Barker









9 Partners, 5 Countries, 2 SMEs

Participant N°	PI name	Organisation	Country
1 (Coordinator)	Gianfranco	Università Politecnica delle Marche, Ancona	Italy
	Romanazzi	(UNIVPM)	
2 Partner 1	Nikolaos	Cyprus University of Technology, Limassol	Cyprus
	Tzortzakis	(CUT)	
3 Partner 2	Antonio Ippolito	Università di Bari, Bari (UNIBA)	Italy
4 Partner 3	Mohamed Bechir	Institut National de la Recherche Agronomique	Tunisia
	Allagui	de Tunisie, Tunis (INRAT)	
5 Partner 4	Davide Spadaro	Università di Torino, Torino (UNITO)	Italy
6 Partner 5	Pervin Kinay	University of Ege, Izmir (UE)	Turkey
	Teksur		
7 Partner 6	María Bernardita	Centre de Tecnologia Postcollita, Institut Valencià	Spain
	Pérez-Gago	d'Investigacions Agràries, Valencia (IVIA)	
8 Partner 7	Mahmut Kilic	Icachem Agro Ilac San, Adana (ICACHEM)	Turkey
9 Partner 8	Clara Montesinos	Decco Iberia, Valencia (DECCO)	Spain





Context

Postharvest losses of fruit, vegetables and aromatic plants have high economic impact in the Mediterranean area, and contribute to food waste. One of the United Nations Priorities, the ZeroHunger Challenge, consists of cutting food waste by half by 2030, as adopted by European Parliament in May 2017. In the EU, every year, food waste amounts to 88 million tonnes, as 173 kg/person, for an emission of 170 million tons of carbon dioxide. This waste occurs from the field to the consumer, and thus innovative sustainable technologies are needed to extend the shelf-life of perishable Mediterranean fresh fruit, vegetables, and aromatic plants.







Budget

1,009,017 €

Section II

Topic - Extending shelf-life of perishable Mediterranean food products



Duration

36 months

Thematic area

Agro-food Value Chain





on



FOOD WASTE

Roughly 1/3 of the food produced in the world for human consumption every year (=1.3 billion tonnes) is lost or wasted



Main objectives

Economic impacts

- Reduction of waste from 30% to 15%
- Reduction of discarded fruit by 20%

Environmental impacts

 Reduction of pesticides applied postharvest by 20%





sector

Marketing and Consumers

- Improved consumer confidence in fresh Mediterranean produce
- High quality and improved shelf-life of fresh fruit, vegetables and aromatic plants
- Reduced waste from 30% to 15%



- MANAGEMENT

WP0 – M/ WPLeader: I

UNIVPM (M1-M36)



DISSEMINATION

WP10

WP Leader: ICACHEM (M1-M36)

10 WPs, TRL 1-5 to 3-6

WP1 – Physical means to extend shelf life of citrus and pomegranate

WP2 – Natural compounds to extend shelf life of citrus, stone fruits, berries, pomegranate and tomatoes

- WP3 Biocontrol agents to extend shelf life of berries and stone fruits
- WP4 Postharvest treatments on foodborne pathogens preservation of tomatoes, cucumber, spearmint and basil
- WP5 Packinghouse application of postharvest strategies
- WP6 ITC sensor, smart packaging, life-cycle assessment
- WP7 Monitoring fruit quality, safety, decay and waste
 - WP8 Scaling up manufacture of developed products and semicommercial testing

WP9 – Training activities of food chain operations

1 May 2020 – 30 April 2024





<u>VI International Symposium on Postharvest Pathology</u> in <u>Cyprus</u> (29 May - 2 June 2022). The Project was presented in the Conference with 1 Plenary lecture (by the Coordinator - Prof. Gianfranco Romanazzi), 6 oral presentations, 11 posters, and a good number of manuscripts was published in Acta Horticulturae

Invited Speakers				
Haïssam Jijakli	Samir Droby	Lise Korsten	Neus Teixidó	
Antonio Ippolito	Pauline Voorbraak	Davide Spadaro	Gianfranco Romanazzi	





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Agrion Fondazione per la ricerca, l'innovazione e lo sviluppo tecnologico dell'agricoltura piemontese

Incontro Tecnico CILIEGIO e ALBICOCCO Martedì 11 Luglio 2023 - ore 14.30

- Le novità dalla sperimentazione varietale
- Valentina Roera, Davide Nari, Lorenzo Berra



 Tecnologie innovative per la difesa in post-raccolta dei prodotti frutticoli – risultati del Progetto STOPMEDWASTE

Interventi a cura di: Davide Spadaro (UNITO), Antonio Ippolito (UNIBA), Gianfranco Romanazzi (UNIVPM) Bernardita Perez Gago (IVIA), Panaviota Xvlia (CUT) e Clara Montesinos (DECCO)

Attività realizzata nell'ambito del Progetto "Servizi operativi e divulgativi per l'applicazione delle tecniche di produzione integrata: acquisizione, elaborazione, erogazione di servizi, diffusione dei dati e divulgazione" finanziato su fondi PSR 2014-2020 MISURA 1. Operazione 1.2.1- Attività dimostrative e di informazione in campo agricolo

"La partecipazione al convegno riconosce nr. CFP 0,250 SDAF 02 per la categoria dei Dott. Agronomi e Dott, Forestali/Rif Regolamento per la formazione professionale continua dei dottori² Collegio interprovinciale dei Periti Agrari e dei Periti Agrari laureati di Alessandria, Asti, Cuneo, Torino e Valle d'Aosta





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R1.2 - MANAGEMENT OF POSTHARVEST DISEASES IN MEDITERRANEAN COUNTRIES TO REDUCE FOOD WASTE

Monday 21 August 2023 - 18:15-19:15 (GMT+2) Bellecour 2-3, Lyon, France

MODERATORS

Gianfranco Romanazzi, StopMedWaste Coordinator, Marche Polytechnic University, Ancona, Italy Lluis Palou, Centre de Tecnologia Postcollita, Institut Valencià d'Investigacions Agràries, Valencia, Spain

TALKS

Presentation of the StopMedWaste project - Gianfranco Romanazzi, StopMedWaste Coordinator, *Marche Polytechnic University, Ancona, Italy* Chitosan, essential oils and ozone as tools to control decay causing fungi and postharvest decay of peaches - Gianfranco Romanazzi, Marwa Moumni, Lucia Landi, Lucrezia D'Ortenzio, Sarah Makau, Samuel Alvarez Garcia, Deborah Pacetti, *Marche Polytechnic University, Ancona, Italy* Integrated alternative control means against postharvest diseases of pomegranates and citrus fruit - Antonio Ippolito, Annamaria Mincuzzi, *University of Bari, Bari, Italy*

Edible coatings formulated with natural extracts and essential oils to control brown rot and maintain postharvest quality of plums - Maria Bernardita Pérez-Gago, Lluis Palou, *Centre de Tecnologia Postcollita, Institut Valencià* d'Investigacions Agràries, Valencia, Spain

Effectiveness of antagonistic yeasts and essential oils in the control of postharvest diseases of fruit - Davide Spadaro, Giulia Remolif, *University of Torino, Torino, Italy* Efficacy of biological compounds to preserve fruit freshness during cold storage and shelf life - Mohamed Bechir Allagui, Mouna Ben Amara, *INRAT, Tunisia*

DISCUSSION AND CONCLUSIONS

UNIVERSITÀ POLITICAICA I Cyprus University of UNIVERSITÀ University of UNIVERSITÀ DIGLISTURO DI ANA DIGLISTURO DI ANA DI DO MORO topMedWaste







Training course StopMedWaste, October 18, 2023, Turkey

training course on "Citrus Postharvest diseases and their management" was organized for responsible agricultural engineers working in packinghouse. The training course was held with the participation of Joseph Smilanick, PhD (Plant Pathologist) from California, America. He has done a lot of work on citrus fruits and is an expert on the subject.











20/09/2022

El IVIA y Poscosecha.com organizan la 1 Jornada Postcosecha de Cítricos. Un punto de encuentro entre la comercialización, la industria y la investigación



Más de 325 profesionales pudieron seguir las diferentes ponencias, tanto físicamente en el salón de Actos del IVIA, como telemáticamente en la plataforma web. / NR.







Innovative Sustainable technologies TO extend the shelf life of Perishable MEDiterranean fresh fruit, vegetables, and aromatic plants and to reduce WASTE: the experience of

prima STOPMEDWASTE Project

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Work nackage



- shelf-lives and greater microbial stability
- The improvement of the food-chain sustainability, using alternative 15. Remutazzi, G. Manni, M. 2022. Chosen and other offic contens to extend shell life, manage rostharvest decay, and roday. agrofood processes or tools that are focused mainly on meat and vegetable production
- · The optimization of food storage and distribution logistics (local and transnational levels), which will result in higher incomes for small holders/ SMEs
- · The reduction of fresh produce losses and possible income increase for growers
- · The production of high quality (free of synthetic fungicides
- operators, stakeholders and consumers) through the dissemination of the project's outcomes

You can follow us on website www.stopmedwaste.net

Published paper Allaun, M.B., Mourmi, M., Romanazzi, G., 2023. Antifungal Activity of Thirty Essential Oils to Control Pathogenic Fung ics 13(1) p 28 https://doi.org/1/

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lydrochloride and COS (Chite-Olig charides)-OGA (Oligo-C nides) on Phytopathogenic Fungi and Eacher

 Benefits
 Industry of the second second

The improvement of the efficacy and efficiency of processing and storage of fresh produce, resulting in food products with longer
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Vischetti, C., Feliziani, E., Landi, L., De Bernardi, A., Marini, E., Romanazzi, G., 2024. Effectiveness of Four Synthetic Fungicide in the Centrol of Post-Harvest Gray Mold of Strawberry and Analyses of Residues on Fruit, Agronomy, 14(1), p.6

residues) fresh produce (fruit, vegetables and aromatic plants) supplied to food-chain operators, retailers and consumers The support of the decision-makers (i.e. growers, food-chain operators, stakeholders and consumers) through the dissemination and and consumers) through the dissemination

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Mixture and Eucalyptol (EOs Main Compound) on Cucumber Fruit Quality Attributes and Microbial Load. Agronomy, 13(10 1 StopMedWaste 1 StopMedWaste StopMedWastel in StopMedWaste StopMedWaste

Over 30 published papers on International journals from the consortium

Several of them shown as a poster















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ABOULUS

Project StopMedWaste aims to extend the shelf-life of perishable fresh fruit

vegetables and aromatic plants by applying physical means, natural compounds and biocontrol agents. These treatments will be applied in the laboratory, under semi-commercial conditions and in the packing houses. The effects of these treatments on fruit quality, decay, and development of food-borne pathogens will be monitored during storage, transportation and shelf-life, to define the impact of these treatments on food waste. Moreover, logistic solutions and information and communication technology (ICT) devices with remote control will monitor environmental conditions during storage and transportation. Smart packaging will be developed for visual demonstration of the quality of fresh fruit, vegetables and aromatic plants for the consumer.







StopMedWaste (@StopMedWaste1) / Twitter

WASTE



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ilinia laxa

StopMedWaste | Facebook



8 collegamenti







Browse Actions > Sustainable Network for agrofood loss and waste prevention, management, quantification and valorisation (FoodWaStop) Home >

Description Management Committee

Working Groups and Membership Main Contacts and Leadership

Description

Food loss and waste (FLW) is a global challenge recognised by international governments and organisations. Reducing FLW is key to sustainably ensure nutritional food security for an increasing world population. It is a target of the Sustainable Development Goals of the United Nations, and the Farm to Fork Strategy of the European Green Deal. The FoodWaStop COST project addresses these challenges and aims to: (i) build an interdisciplinary and multi-actor European Network that will also connect with non-EU Mediterranean countries, to promote knowledge on FLW beyond the state of the art; (ii) determine incidence of FLW in the critical points of the fruit and vegetable value chain; (iii) foster technological innovations and sustainable management strategies to reduce and prevent FLW; and (iv) valorise agrofood waste to promote a circular bio-economy. The experience of the Coordinators and Participants gained from other related projects (e.g., PRIMA, H2020), the background from diverse EU and extra-EU countries, and the involvement of stakeholders and industry partners will contribute to increase awareness of this problem, to determine its incidence, to seek strategies for its management through exploitation of the potential of innovative technologies, and to define good practices to prevent FLW. The FoodWaStop Network will provide benefits to various stakeholders and end-users, including all actors in the agrofood value chain, from farmers (Farm) to consumers (Fork). Moreover, FoodWaStop will create a knowledge platform that will promote innovation, deliver guidelines, and favour dialogue with policymakers, to focus their attention on the social and economic implications of FLW.

Action keywords

Agrofood waste - Euro-Mediterranean knowledge hub - Sustainable food management - Circular bio-economy - Socio economic empowerment of smallholders

Action Details

- MoU 044/23
- **CSO Approval date** 12/05/2023
- **Start date** 21/09/2023
- End date 20/09/2027

How can I participate?

- Read the Project Description MoU
- Inform the Main Proposer/Chair of your interest (email)
- Apply to join your Working Groups ofinterest
- Please note, Management Committee nominations are carried out through the COST

Action Chair	Prof Gianfranco ROMANAZZI 🗸
Action Vice Chair	Dr Fernando PEREZ-RODRIGUEZ
Grant Holder Scientific Representative	Prof Gianfranco ROMANAZZI \checkmark
Science Communication Coordinator	Profluca FALASCONI 🗸
Grant Awarding Coordinator	Prof Pervin KINAY TEKSUR 🗸
WG1 Leader	Prof George KARAOGLANIDIS 🗸
WG2 Leader	Prof Slaven ZJALIC 🗸
WG3 Leader	Dr Natalia FALAGAN 🗸
WG4 Leader	Dr Jessica GIRARDI 🗸
WG5 Leader	Dr Sandro FRATI 🗸
WG6 Leader	Dr Kata LUDMAN-MIHÁLY 🗸

Leader

Leadership

Role







Home > Browse Actions > Sustainable Network for agrofood loss and waste prevention, management, quantification and valorisation (FoodWaStop)

Description	Management Committee	Main Contacts and Leadership	Working Groups and Membership	
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Working Groups

Number	Title	Leader
1	Prevention of food loss and food waste	Prof George KARAOGLANIDIS 🗸
2	Agrofood loss and waste management	Prof Slaven ZJALIC V
3	Quantification of food loss and food waste	Dr Natalia FALAGAN 🗸
4	Valorisation of agrofood waste and a circular bio-economy	Dr Jessica GIRARDI 🗸
5	Cross-cutting strategies and smart systems for food management	Dr Sandro FRATI 🗸
6	Networking and dissemination, communication and transfer of knowledge	Dr Kata LUDMAN-MIHÁLY 🗸

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Kick-off meeting – Bruxelles, 21 September 2023





PRIMA is an excellent platform for interaction(s) and for growing a community that exchanges and disseminates knowledge to take care of AgroFood system of EuroMediterranean area and contributes to the reduction of food loss and waste



