

22-27 August 2021, Melle, Belgium

# POSTER PROGRAMME

Methods for measuring nutrient mineralization in growing media with organic fertilizers incorporated Karl-Johan Bergstrand, Hakan Asp

# P.2

Effect of an adapted fertigation strategy on the quality of tomatoes and growth of tomato plants with organic and inorganic nitrogen sources in soilless culture systems

Oliver Grunert, Dirk Reheul, Marie-Christine Van Labeke, Nico Boon

The sodium tolerance of tomatoes revisited, to minimize nutrient emissions in closed-loop soilless

Wim Voogt, Tommasso Barbagli, Andrea Diaz Ismael, Nina Oud, Romain Leyh

#### P.4

Trichoderma is an effective biological alternative to reduce fungicide use in *Phalaenopsis* young plants grown in organic plugs

Soraya França, Hanne Poelmans, Arne Steelandt

# P.5

Circularity in practice: reusing restaurant waste for in-house vegetable production Hakan Asp, Karl-Johan Bergstrand, Malin Hultberg

# P.6

Fen plant biomass as growing media constituent - cultivation of Pelargonium zonale and Begonia x hiemalis in peat reduced mixtures with composted fen plant biomass Christina Hartung, Elke Meinken

# **P.7**

Plant availability of phosphorus in recycled fertilizers from wastewater treatment - effect of grain size Daniel Hauck, Dieter Lohr, Johannes Max, Elke Meinken

# P.8

A Trichoderma-based biostimulant enhances Impatiens walleriana growth and flowering in different growing media

Sonia Cacini, Alessandro Orlandini, Massimo Brambilla, Gianluca Burchi, Maurizio Cutini, Marco Fedrizzi, Daniele Massa, Valentina Ceccarelli, Mariateresa Cardarelli

# P.9

Sustainable substrates for agriculture from dredged remediated marine sediments: from ports to pots (LIFE 17 ENV/IT/000347)

Francesca Tozzi, Maurizio Antonetti, Domenico Prisa, Gianluca Burchi, Maria Castellani, D. Bonetti, Sonia Cacini, Stefania Nin



















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#### P.10

Horti-BlueC decision tool for processing residual materials into building blocks for growing media Bart Vandecasteele, Fien Amery, L. Golsteyn

Cultivars of blackberry and raspberry differently shape rootzone microbiome during cultivation in organic substrate

Marta Streminska, Huei Ming Huisman, Jan Janse

### P.12

Microbial diversity and activity in the rootzone of a cucumber crop influenced by biologically produced fertilizers, additives and growing media

Marta Streminska, Barbara Eveleens-Clark, Gerdit Greve, Chris Blok, Huei Ming Huisman, Nina Oud, Pieter de Visser

#### P.13

Influence of the starting feedstock materials to obtain compost. Deeping on microbiological characteristics and the relationship with chemical composition

Juan A. Fernandez, Alicia Hernández, Raúl Moral, María Dolores Pérez-Murcia, Marian A. Bustamante, Catalina Egea-Gilabert, José A. Pascual, Margarita Ros

### P.14

Water dynamics of stratified substrate systems under single and cyclic irrigation schedules Jeb Fields, Kristopher Criscione, James Owen

### P.15

Opportunities and Challenges to Implementing Stratified Substrates in Soilless Culture of Economically **Significant Crops** 

James Owen, Jeb Fields, James Altland, Christopher Marble, Tyler Hoskins, Julie Brindley

#### P.16

Evaluation of organic substrates as an alternative to perlite for cucumber production in the Dutch bucket hydroponic system

Teng Yang, James Altland, Uttara Samarakoon

#### P.17

Sustainable growing media blends with woody green composts: optimizing the N release with organic

Bart Vandecasteele, Maxim Rooseleer, Elke Vandaele

#### P.18

Biochar type and ratio as a peat additive in growing media for lettuce seedling production Nikolaos Tzortzakis, Antonios Chrysargyris, Munoo Prasad, Anna Kavanagh

### P.19

Municipal solid waste compost used as a growing media component for tomato seedlings production Nikolaos Tzortzakis, Antonios Chrysargyris

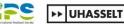
















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An experimentally validated selection protocol for biochar as a sustainable component in green roofs Ann Cuypers, Tom Haeldermans, Jeamichel Puente Torres, Dries Vandamme, Kenny Vanreppelen, Sonja Schreurs

### P.21

# Screening biochars for their effect on plant growth

Ingeborg Pecqueur, Marijke Jozefczak, Amine Lataf, Stéphanie Vandionant, Dries Vandamme, Ann Cuypers

#### P.22

Influence of compost characteristics and compost:soil ratio on soil properties and growth of Vicia faba Fien Amery, Frederik Gerits, Judith Huygens, Hanne Lakkenborg Kristensen, Koen Willekens

# P.23

# Towards a peat-free horticulture in Europe

Marie Ohmes, Andrew Gallik, Jacques Fuchs, Christoph Carlen, Ute Vogler

#### P.24

Compost quality characteristics: how are they related to each other and to composting practices? Fien Amery, Elke Vandaele, Hans Smeets, Margita Hefner, Kenneth Loades, Roy Neilson, Ina Körner, Koen Willekens

# P.25

Possibilities of rooting azalea and camellia cuttings in an aeroponics system Els Pauwels, Bruno Jacobson da Silva, Bruno Gobin

# P.26

Effects of substrate-mixed biostimulants on Spathiphyllum under recurrent drought stress Paulien De Clercg, Marie-Christine Van Labeke, Els Pauwels, Bruno Gobin

#### P.27

Nanoparticles and biochar used as additives in composting operations do not inhibit the photosynthesis process and improve plant growth of ryegrass (Lollium perenne L.) in compost amended-volcanic soils Jorge Medina, Christian Santander, Humberto Aponte, Marcela Calabi, Pablo Cornejo, Fernando Borie, Heike Knicker

# P.28

Methods for Growing Media Analysis ' Developments according to the EU Fertilizer Product Regulation Andreas Baumgarten

# P.29

Martian Soil Simulant (MSS-1) Enriched with Green Compost Engender Higher Lettuce Yield and **Ameliorated Qualitative Aspects** 

Stefania De Pascale, Luigi G. Duri, Christophe El-Nakhel, Antonio Pannico, Youssef Rouphael

#### P.30

Characteristics of agro-industrial residues transformations in Latin America: a Meta-analysis approach Maria Martinez, Rodrigo Ortega Blu

















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Road side cuttings from a local biomass hub as an alternative feedstock for soil substrates N. Devriendt, T. Anthonis

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Amending Butterhead Lettuce and Brioso Tomato with Recycled Shellfish Food Waste to Improve Yield and Antioxidant Activity

Edward Collins, Cressida Bowyer, Matthew Tallis, Mridula Chopra











