



# GrowingMedia2021 – International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture

22-27 August 2021, Melle, Belgium

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## POSTER PROGRAMME

**P.1**

**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*

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

*Wim Voogt, Tommaso Barbagli, Andrea Diaz Ismael, Nina Oud, Romain Leyh*

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

*Soraya França, Hanne Poelmans, Arne Steelandt*

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**Circularity in practice: reusing restaurant waste for in-house vegetable production**

*Hakan Asp, Karl-Johan Bergstrand, Malin Hultberg*

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**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*

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**Plant availability of phosphorus in recycled fertilizers from wastewater treatment - effect of grain size**

*Daniel Hauck, Dieter Lohr, Johannes Max, Elke Meinken*

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**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*

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**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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**Horti-BlueC decision tool for processing residual materials into building blocks for growing media**

*Bart Vandecasteele, Fien Amery, L. Golsteyn*

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

*Marta Streminska, Hwei Ming Huisman, Jan Janse*

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**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, Gerdt Greve, Chris Blok, Hwei Ming Huisman, Nina Oud, Pieter de Visser*

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**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-Gilbert, José A. Pascual, Margarita Ros*

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**Water dynamics of stratified substrate systems under single and cyclic irrigation schedules**

*Jeb Fields, Kristopher Criscione, James Owen*

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**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*

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

*Teng Yang, James Altland, Uttara Samarakoon*

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

*Bart Vandecasteele, Maxim Rooseleer, Elke Vandaele*

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**Biochar type and ratio as a peat additive in growing media for lettuce seedling production**

*Nikolaos Tzortzakis, Antonios Chrysargyris, Munoo Prasad, Anna Kavanagh*

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**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*

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**Screening biochars for their effect on plant growth**  
*Ingeborg Pecqueur, Marijke Jozefczak, Amine Lataf, Stéphanie Vandionant, Dries Vandamme, Ann Cuypers*

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**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*

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**Towards a peat-free horticulture in Europe**  
*Marie Ohmes, Andrew Gallik, Jacques Fuchs, Christoph Carlen, Ute Vogler*

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**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*

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

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

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

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

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**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 Roupael*

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**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 Briois Tomato with Recycled Shellfish Food Waste to Improve Yield and Antioxidant Activity**

*Edward Collins, Cressida Bowyer, Matthew Tallis, Mridula Chopra*