

**Tuesday September 20<sup>th</sup>, 2022**

abstract #

**SABB2022\_day 1\_biostimulants****Chair: Danny Geelen**

8:00 AM registration

9:15 AM welcome

9:30 AM KN Patrick Brown

10:15 AM speaker Caroline De Tender

10:25 AM speaker Lara Van Dijck

Biostimulant and nutrient use efficiency

Chitin-induced growth promotion: an alternative for mineral fertilizers and an inducer of the rhizosphere microbiome in soilless cultivation

Assessing the role of root-exuded coumarins in shaping host - microbiome interactions

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**BREAK (25 min)****Chair: Maaïke Perneel**

11:10 AM IS Cinzia M. Berteà

11:30 AM speaker Caroline Van Beirs

11:40 AM speaker Salomé Lengrand

11:50 AM speaker Seppe Top

Plant biostimulants as a sustainable approach to improve fruit development and quality under abiotic stress conditions

The auxin transport inhibitor cis-cinnamic acid is a natural plant growth-promoting compound

Are endophytic bacteria involved in increasing plant drought tolerance provided by humic and fulvic acids application?

Seaweed biostimulants affect sap flow and stem diameter variation in tomato (*Solanum lycopersicum*)

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**LUNCHBREAK (+- 90 min)****SABB2022\_day 1\_biopesticides****Chair: Tina Kyndt / Ann Cuypers**

1:30 PM KN Vassilis Fotopoulos

2:00 PM KN Corina Vlot-Schuster

2:30 PM IS Catherine Michaux

2:50 PM speaker Willem Desmedt

3:00 PM speaker Junli Wang

3:10 PM speaker Eva Degroote

Plant and seed priming as 'green' tools for sustainable agriculture under a changing climate

Airborne defense cues drive plant-microbe interactions to promote plant health

A human-safe insecticide strategy based on pest trehalase inhibition

Transient phenylpropanoid pathway perturbation triggers an induced resistance response in plants

A link between glutamate receptor like proteins and host cell death in plant immunity

Cold water extract of Cucurbitaceae as basis for future nematode control agents

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**BREAK (30 min)****Chair: Kris Audenaert / Geert Haesaert**

3:50 PM KN Federica Locci

4:20 PM IS Ali Siah

4:40 PM speaker Jaap Wolters

4:50 PM speaker Halimat Ogunsanya

5:00 PM pitch Lena Ons

5:03 PM pitch Killian Van Loocke

5:06 PM pitch Jing Li

5:09 PM pitch Noémie De Zutter

5:12 PM pitch Yinwei Zeng

5:15 PM pitch Johan Yssel

5:18 PM pitch Giulia Forghieri

5:21 PM pitch Antoine Grandin-Courbet

5:24 PM Pitch Marcin Smiglak

Sensing the danger: a confluent view of plant innate immunity

Biocontrol of the wheat pathogen *Zymoseptoria tritici*: current status and future challenges

Tetraose glycoalkaloids from potato can provide complete protection against fungi and insects

BIO4FOOD: Crop waste-derived biostimulant for nutrient-rich food

Repurposing of known agrochemicals: 2,4-dichlorophenoxyacetic acid at low non-herbicidal concentrations as a potent inducer of plant resistance

Biocontrol potential of *Bacillus* and *Pseudomonas* strains towards *Phytophthora* root rot in hydroponic lettuce cultivation

BioSUNmulant – From sunflower stems to fibre, biostimulant and bioprotectant

Automated phenotyping platforms are an indispensable tool to evaluate the effects of biostimulants and biocontrol products

Stimulation of adventitious rooting in hypocotyls with a highly selective synthetic auxin like molecule

Impact of seaweed extracts on *Vitis vinifera* L. Chardonnay under cool climatic conditions

Development of Bio-formulation for Nutrient Uptake Optimization by Crops

Seaweed based-extract improved leaf meristem protection of perennial ryegrass under drought

Chlorophyll a fluorescence as a tool to study the influence of two novel biostimulants: ionic derivatives of salicylic and benzo(1.2.3)tiadiazole-7-carboxylic acid- on pepper (*Capsicum annuum* L.)

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6:00 PM poster session (drinks and appetizers)

7:30 PM close

## Wednesday September 21<sup>st</sup>, 2022

### SABB2022\_day 2\_biostimulants

9:00 AM	KN	Giuseppe Colla	Biostimulant development: a journey of discovering new protein hydrolysates from lab to field	26
9:30 AM	IS	Jing Li	A Meta-Analysis of Biostimulant Yield Effectiveness in Field Trials	27
9:50 AM	speaker	Marco Zarattini	LPMO-oxidized CelloOligosaccharides enhance resistance towards the fungus <i>B. cinerea</i> and Heat Stress conditions in <i>Arabidopsis</i> .	28
10:00 AM	speaker	Stéphanie Vandionant	Woody biochar as biostimulant: Molecular and vegetative benefits in cadmium-contaminated medium	29
10:10 AM	speaker	Paulien De Clercq	Effect of seaweed-based biostimulants on growth and development of <i>Hydrangea paniculata</i> under drought stress	30

### BREAK (25 min)

10:45 AM	KN	Kris Audenaert	The elusive <i>Serendipita</i> genus and its metabolites: a promising biostimulant	31
11:15 AM	IS	Francesco Magro	Plant methods for the characterization of plant biostimulant effects	32
11:35 AM	speaker	Kris Kunnen	Don't waste your waste: how waste of microgreens cultivations becomes a resource for coconut coir-based biochar, possibly increasing substrate and product quality along the way.	33
11:45 AM	speaker	Martin Quiévreux	Testing biostimulants to validate the claims through multi-scale assays and a meta-analysis	34
11:55 AM	Pitch	Halimat Ogunsanya	Biostimulant activity in extracts from Belgian endive roots	35
11:58 AM	Pitch	Alejandro Navarro Galiano	Two different biostimulants enhanced <i>Arabidopsis thaliana</i> 's tolerance to hypoxia.	36
12:01 PM	Pitch	Mariluz del Pino-de Elias	Biostimulants for barley: Determining the potential of bio-based products for barley growth and development in field	38

### LUNCHBREAK (+- 90 min)

### SABB2022\_day 2\_biostimulants/biopesticides

1:30 PM	KN	Uwe Conrath	Priming plants for enhanced defense	39
2:00 PM	KN	Pierre Van Cutsem	Differential response of dicots vs monocots after elicitation by COS-OGA – how does it fit into plant metabolism?	40
2:30 PM	IS	Ivan Visentin	Strigolactones: phytohormones with a potential for agrochemical manipulation of crop performances	41
2:50 PM	speaker	Simona Masiero	CYCLIC: a game changing library for the isolation of cyclic antimicrobial peptides for a sustainable agriculture	42
3:00 PM	speaker	Satish Namdeo Chavan	Dehydroascorbate: A novel resistance-inducing stimulus against root-knot nematode <i>Meloidogyne graminicola</i>	43
3:10 PM	pitch	Brechtje de Haas	Microbiome of hydroponic lettuce is stable under different light qualities	44
3:13 PM	pitch	Xinquan Hu	Tracing back potential PGPRs in the root-associated bacterial communities of growth-promoted hydroponic plants	45
3:16 PM	pitch	Jasmine De Rop	Incorporation of <i>Rhizobium leguminosarum</i> and <i>Pseudomonas</i> spp. in seed encrustings for nitrogen fixation and biological control in <i>Phaseolus vulgaris</i> L	46
3:19 PM	pitch	Camila Levy	Bringing ultra-efficient biostimulant applications into agricultural practice	47

### BREAK (25 min)

### SABB2022\_day 2\_workshop

3:50 PM	KN	Robin Ingels	A practical approach in developing Biopesticides & Biostimulants	48
4:15 PM	speaker	Jan Geerinck	Evoca TM, the first biofungicide developed on the ground-breaking Biotalys AGROBODY Foundry TM platform.	49
4:30 PM	speaker	Camila Levy	BIOTOOL, innovative tool for the biostimulant's mode of action identification and their behaviour under water use efficiency	50
4:45 PM	speaker	Cristina Sudiro	Investigations on the efficacy and mechanism of action of a candidate phytosanitary product against the grapevine downy mildew agent <i>Plasmopara viticola</i>	51
5:00 PM	speaker	Sandro Frati	Natamycin, a new natural fungicide for post-harvest: opportunities and challenges	52
5:15 AM	speaker	Chiara Pituello	A controlled release biostimulant based on hydrolyzed protein: release modulation and characterization.	53

5:30 AM poster session

6:30 PM close

## Thursday September 22<sup>nd</sup>, 2022

### SABB2022\_day 3\_workshop

8:30 AM	workshop	EBIC	Celine Durieu	
9:00 AM	workshop	B2BE Facilitator	Jasmine Versyck	
9:30 AM	workshop	Arche Consulting	Leen Jansen	
10:00 AM	workshop	EMCI Register & EFCI Register	Giel Tettelaar	

### SABB2022\_day 3\_technical tour

10:30 AM technical tour (return +/- 6:30 PM)