

## Research outputs

Listing of Research outputs

**Tapping into the maize root microbiome to identify bacteria that promote growth under chilling conditions.** / Beirinckx, Stien ; Viaene, Tom; Haegeman, Annelies; Debode, Jane; Amery, Fien; Vandabeele, Steven; Nelissen, Hilde; Inzé, Dirk; Tito, Raul; Raes, Jeroen; De Tender, Caroline; Goormachtig, Sofie.

In: *Microbiome*, Vol. 8, No. 1, 18.04.2020, p. 54.

Research output: Contribution to journal › A1: Web of Science-article

**Has compost with biochar applied during the process added value over biochar or compost for increasing soil quality in an arable cropping system?** / D'Hose, Tommy; Debode, Jane; De Tender, Caroline; Ruyschaert, Greet; Vandecasteele, Bart

In: *Applied Soil Ecology*, Vol. 156, 103706, 12.2020.

Research output: Contribution to journal › A1: Web of Science-article

**Grow - Store - Steam - Re-peat: Reuse of spent growing media for circular cultivation of Chrysanthemum.** /

Vandecasteele, Bart; Blindeman, Liesbet; Amery, Fien; Pieters, Christophe; Ommeslag, Sarah; Van Loo, Koen; De Tender, Caroline; Debode, Jane.

In: *Journal of Cleaner Production*, 09.2020, p. 124128.

Research output: Contribution to journal › A1: Web of Science-article

**Unipect CLI 2.0 : adding support for visualisations and functional annotations.** / Verschaffelt, Pieter; Van Thienen, Philippe; Van Den Bossche, Tim; Van der Jeugt, Felix; De Tender, Caroline; Martens, Lennart; Dawyndt, Peter; Mesuere, Bart.

In: *Bioinformatics (Oxford, England)*, Vol. 36, No. 14, 03.06.2020, p. 4220.

Research output: Contribution to journal › A1: Web of Science-article

**Peat substrate amended with chitin modulates the N-cycle, siderophore and chitinase responses in the lettuce rhizobiome.** / De Tender, C; Mesuere, B; Van der Jeugt, F; Haegeman, A; Ruttink, T; Vandecasteele, B; Dawyndt, P; Debode, J; Kuramae, E E.

In: *Scientific Reports*, Vol. 9, No. 1, 09.07.2019, p. 9890.

Research output: Contribution to journal › A1: Web of Science-article

**Microbiome-guided selection to identify plant growth-promoting bacteria that enhance juvenile maize growth under cold stress.** / Goormachtig, S.; Beirinckx, S.; Viaene, T.; Haegeman, Annelies; Debode, Jane; Amery, F.; Vandabeele, S.; Nelissen, H.; Inze, D.; Tito, R.; Raes, J.; De Tender, C.

18th Congress of International-Society-for-Molecular-Plant-Microbe-Interactions (IS-MPMI). Vol. 32 10. ed. 2019. p. 59-59 (Molecular Plant-Microbe Interactions).

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Sebacinoids within rhizospheric fungal communities associated with subsistence farming in the Congo Basin: a needle in each haystack.** / Venneman, Jolien; De Tender, Caroline; Debode, Jane; Audenaert, Kris; Baert, Geert; Vermeir, Pieter; Cremelie, Pieter; Bekaert, Boris; Landschoot, Sofie; Thienpondt, Bert; Dhed'a Djailo, Benoit ; Vereecke, Danny; Haesaert, Geert.

In: *FEMS Microbiology Ecology*, Vol. 95, 95, 08.2019, p. fiz101.

Research output: Contribution to journal › A1: Web of Science-article

**Trichoderma-Inoculated Miscanthus Straw Can Replace Peat in Strawberry Cultivation, with Beneficial Effects on Disease Control.** / Debode, Jane; De Tender, Caroline; Cremelie, Pieter; Lee, Ana S.; Kyndt, Tina; Muylle, Hilde; De Swaef, Tom; Vandecasteele, Bart.

In: *Frontiers in Plant Science*, Vol. 9, 21.02.2018.

Research output: Contribution to journal › A1: Web of Science-article

**A review of microscopy and comparative molecular-based methods to characterize "Plastisphere" communities.** / De Tender, Caroline; Schlundt, Cathleen; Devriese, Lisa; Mincer, Tracy; Zettler, Erik; Amaral-Zettler, Linda.  
In: Analytical Methods, 17.03.2017.

Research output: Contribution to journal › A1: Web of Science-article

**Microbial community analysis in soil (rhizosphere) and the marine (plastisphere) environment in function of plant health and biofilm formation.** / De Tender, Caroline.  
2017.

Research output: Thesis › Doctoral dissertation - Doctoral dissertation

**Temporal dynamics of bacterial and fungal colonization on plastic debris in the North Sea.** / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Vangeyte, Jürgen; Cattrijsse, André; Dawyndt, Peter; Ruttink, Tom.  
In: Environmental Science & Technology, 31.05.2017.

Research output: Contribution to journal › A1: Web of Science-article

**The strawberry rhizosphere microbiome in response to biochar and *Botrytis cinerea* leaf infection.** / De Tender, Caroline; Debode, Jane; Cremelie, Pieter; Haegeman, Annelies; Vandecasteele, Bart; Maes, Martine.  
2017. International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture, Portland, United States.

Research output: Contribution to conference › C3: Conference - meeting abstract

**Inoculated plant fibres for sustainable and disease suppressing growing media.** / Debode, Jane; De Tender, Caroline; Cremelie, Pieter; De Swaef, Tom; Muylle, Hilde; Vandecasteele, Bart.  
2017. International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture, Portland, United States.

Research output: Contribution to conference › C3: Conference - meeting abstract

**Response of the soil microbiome to compost amendment.** / Debode, Jane; De Tender, Caroline; Cremelie, Pieter; D'Hose, Tommy; Ruyschaert, Greet; Vandecasteele, Bart.  
2017. International Symposium on Growing Media, Soilless Cultivation, and Compost Utilization in Horticulture, Portland, United States.

Research output: Contribution to conference › C3: Conference - meeting abstract

**Biological, physicochemical and plant health responses in lettuce and strawberry in soil or peat amended with biochar.** / De Tender, Caroline; Debode, Jane; Vandecasteele, Bart; D'Hose, Tommy; Cremelie, Pieter; Haegeman, Annelies; Ruttink, Tom; Dawyndt, Peter; Maes, Martine.  
In: Applied Soil Ecology, Vol. 107, 01.11.2016, p. 1-12.

Research output: Contribution to journal › A1: Web of Science-article

**Dynamic changes in the strawberry rhizobiome in response to biochar.** / De Tender, Caroline; Debode, Jane; Vandecasteele, Bart; Cremelie, Pieter; Haegeman, Annelies; Ruttink, Tom; Dawyndt, Peter; Maes, Martine.  
SETAC/iEOS Joint Focused Topic Meeting: Environmental and (eco)toxicological omics and epigenetics: science, technology and regulatory applications. 2016.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Dynamics in the strawberry rhizosphere microbiome in response to biochar and botrytis cinerea leaf infection.** / De Tender, Caroline; Haegeman, Annelies; Vandecasteele, Bart; Clement, Lieven; Cremelie, Pieter; Dawyndt, Peter; Maes, Martine; Debode, Jane.

In: Frontiers in microbiology, Vol. 7, No. 7, 7, 22.12.2016.

Research output: Contribution to journal › A1: Web of Science-article

**Food for bacteria: a plastic exposure trial at sea.** / De Tender, Caroline; Devriese, Lisa; Maes, Sara; Vanhalst, Kevin; De Bock, Tim; Vangeyte, Jürgen; Cattrijsse, André; Robbens, Johan; Dawyndt, Peter.  
VLIZ Marine Scientist's Day 2016. 2016.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Living in the anthropocene: plastic debris as a new bacterial habitat.** / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; Robbens, Johan; Dawyndt, Peter .  
ISME 16 Montreal. 2016. p. 0-587.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Temporal dynamics of bacterial colonization of plastic debris in the North Sea.** / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Cattrijsse, Andre; Vangeyte, Jürgen; Maes, Sara; Ruttink, Tom; Dawyndt, Peter.  
Setac/iEOS Joint Focused Topic Meeting: Environmental and (eco)toxicological omics and epigenetics: science, technology and regulatory applications. 2016.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**The dynamic bacterial colonization on plastic: an exposure experiment at sea.** / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; Dawyndt, Peter.  
North Sea Open Science Conference. Ostend, Belgium, 7-10 November 2016. Abstract booklet: Interdisciplinary Science in support of Marine Management. 2016.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Chitin mixed in potting soil alters lettuce growth, the survival of zoonotic bacteria on the leaves and associated rhizosphere microbiology.** / Debode, Jane; De Tender, Caroline; Soltaninejad, Saman; Van Malderghem, Cinzia; Haegeman, Annelies; Van der Linden, Inge; Cottyn, Bart; Heyndrickx, Marc; Maes, Martine.  
In: *Frontiers in microbiology*, Vol. 7, 2016, p. 565.

Research output: Contribution to journal › A1: Web of Science-article

**Chitine als substraatverbeteraar werpt zijn vruchten af bij sla.** / Debode, Jane; De Tender, Caroline; Soltaninejad, Saman; Van Malderghem, Cinzia; Haegeman, Annelies; Van der Linden, Inge; Cottyn, Bart; Heyndrickx, Marc; Maes, Martine.  
In: *Sierteelt&groenvoorziening*, Vol. 8, 01.05.2016, p. 21.

Research output: Contribution to journal › A4: Article in journal not included in A1, A2 or A3

**A DNA (meta)barcoding approach to tackle marine benthic biodiversity.** / Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; De Backer, Annelies; Van Hoey, Gert; Wittrock, Jan; Hillewaert, Hans; De Tender, Caroline; Hostens, Kristian.

North Sea Open Science Conference. Ostend, Belgium, 7-10 November 2016. Abstract booklet. : Interdisciplinary Science in support of Marine Management. 2016.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Traditional and new soil amendments reduce survival and reproduction of potato cyst nematodes, except for biochar.** / Ebrahimi, Negin; Viaene, Nicole; Vandecasteele, Bart; D'Hose, Tommy; Debode, Jane; Cremelie, Pieter; De Tender, Caroline; Moens, Maurice.

In: *Applied Soil Ecology*, Vol. 107, 2016, p. 191-204.

Research output: Contribution to journal › A1: Web of Science-article

**Metabarcoding as a tool to uncover soil biodiversity (bacteria, fungi and nematodes).** / Haegeman, Annelies; De Tender, Caroline; Debode, Jane; Waeyenberge, Lieven; De Sutter, Nancy; Viaene, Nicole; Maes, Martine.  
2016. Poster session presented at Applied Bioinformatics in Life Sciences, Leuven, Belgium.

Research output: Contribution to conference › Poster

**Floating fortress of microbes : Microscopic creatures take advantage of plastic debris in the oceans.** / Samoray, Chris; De Tender, Caroline.

In: *Science News*, Vol. 189, No. 4, 189, 20.02.2016, p. 20-23.

Research output: Contribution to journal › A4: Article in journal not included in A1, A2 or A3

**Bacterial community profiling of plastic litter in the Belgian part of the North Sea.** / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; Dawyndt, Peter.

In: *Environmental Science & Technology*, Vol. 49, 06.08.2015, p. 9629-9638.

Research output: Contribution to journal › A1: Web of Science-article

**Effects of biochar addition on bacterial populations of the lettuce and strawberry rhizosphere.** / De Tender, Caroline; Debode, Jane; Haegeman, Annelies; Ruttink, Tom; Baeyen, Steve; Cremelie, Pieter; Vandecasteele, Bart; Dawyndt, Peter; Maes, Martine.

2015. Poster session presented at BIG N2N annual symposium, Gent, Belgium.

Research output: Contribution to conference › Poster

**Effects of biochar addition on bacterial populations of the lettuce and strawberry rhizosphere.** / De Tender, Caroline; Debode, Jane; Haegeman, Annelies; Ruttink, Tom; Baeyen, Steve; Cremelie, Pieter; Vandecasteele, Bart; Dawyndt, Peter; Maes, Martine.

Bageco 13 Bacterial Genetics and Ecology: The microbial continuity across changing ecosystems. 2015.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Metagenomics @ sea: a floating house in a marine environment.** / De Tender, Caroline; Devriese, Lisa; Maes, Sara; Haegeman, Annelies; Ruttink, Tom; Robbens, Johan; Dawyndt, Peter.

Book of abstracts: VLIZ young marine scientists's day . 2015.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Plastic debris: a distinct niche in the marine environment.** / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; Dawyndt, Peter; Robbens, Johan.

2015. Poster session presented at BIG N2N annual symposium, Gent, Belgium.

Research output: Contribution to conference › Poster

**Plastic debris: a distinct niche in the marine environment.** / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; Dawyndt, Peter; Robbens, Johan.

Bageco 13 Bacterial Genetics and Ecology: The microbial continuity across changing ecosystems. 2015.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Studying biological impacts of marine litter levels : Bacterial diversity analysis of plastic litter in the North Sea.** / De Tender, Caroline; Devriese, Lisa.

In: Coastal & Marine, Vol. 24, 2015, p. 9.

Research output: Contribution to journal › A4: Article in journal not included in A1, A2 or A3

**Effect of biochar amendment on the rhizosphere microbiome of lettuce and strawberry.** / Debode, Jane; De Tender, Caroline; Cremelie, Pieter; Vandecasteele, Bart; Maes, Martine.

Abstract book Rhizosphere 4. 2015.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Plastic afval beladen met chemicaliën en bacteriën.** / Devriese, Lisa; Bekaert, Karen; De Tender, Caroline; Gauquie, Johanna; Vandendriessche, Sofie.

In: Hippo campus, No. 256, 11.2015, p. 50-53.

Research output: Contribution to journal › A4: Article in journal not included in A1, A2 or A3

**Towards population genomics and metagenomics in agriculture and marine environments.** / Haegeman, Annelies; De Mulder, Thijs; De Tender, Caroline; Fraiture, Marie-Alice; Kirov, Ilia; Luypaert, Gil; van Parijs, Frederik; Veckman, Elisabeth; Verwimp, Christophe; Baeyen, Steve; Debode, Jane; De Keyser, Ellen; De Riek, Jan; Devriese, Lisa; Goossens, Karen; Maes, Sara; Muylle, Hilde; Peiren, Nico; Rasschaert, Geertrui; Taverniers, Isabel; Van Coillie, Els; Vandaele, Leen; Van Laere, Katrijn; De Campeneere, Sam; De Loose, Marc; Heyndrickx, Marc; Maes, Martine; Robbens, Johan; Roldán-Ruiz, Isabel; Van Huylenbroeck, Johan; Ruttink, Tom.

2015. Poster session presented at BIG N2N annual symposium, Gent, Belgium.

Research output: Contribution to conference › Poster

**Metagenome analysis of a soil and marine environment.** / De Tender, Caroline; Debode, Jane; Devriese, Lisa; Haegeman, Annelies; Ruttink, Tom; Baeyen, Steve; Cremelie, Pieter; Maes, Sara; Dawyndt, Peter; Maes, Martine; Robbens, Johan.

2014. Poster session presented at 4th MRP N2N Bioinformatics symposium , Gent, Belgium.

Research output: Contribution to conference › Poster

**Bodembeheer in functie van ziekteveerbaarheid.** / Debode, Jane; De Tender, Caroline; Wesemael, Wim; Viaene, Nicole; Van Vaerenbergh, Johan; Heungens, Kurt; Willekens, Koen; D'Hose, Tommy; Ruyschaert, Greet; Vandecasteele, Bart; Maes, Martine.

Bodem, nutriënten en compost: Onderzoek voor een duurzame landbouw. Instituut voor Landbouw-, Visserij- en Voedingsonderzoek, 2014. (ILVO mededeling; No. 171).

Research output: Chapter in Book/Report/Conference proceeding › Contribution to scientific report

**Can biochar play a role in the integrated control of diseases in protected crops?** / Debode, Jane; De Tender, Caroline; Cremelie, Pieter; D'Hose, Tommy; Vandecasteele, Bart; Maes, Martine.

IOBC-WPRS Bulletin: "Integrated control in protected crops, temperature climate". Vol. 102 2014. p. 65-66.

Research output: Chapter in Book/Report/Conference proceeding › C1: Articles in proceedings

**The effect of biochar on plant pathogens and rhizosphere microbiology.** / Debode, Jane; Wesemael, Wim; Ebrahimi, Negin; De Tender, Caroline; Cremelie, Pieter; D'Hose, Tommy; Viaene, Nicole; Vandecasteele, Bart; Maes, Martine.

The biochar effect along the soil-rhizosphere-plant-atmosphere continuum. 2014.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**MICRO nieuwsbrief - Juli 2014.** / Derveaux, Sabine; Devriese, Lisa; De Tender, Caroline; van der Meulen, Myra; Lambert, Christophe; Frère, Laura; Cassone, Anne-Laure; Huvet, Arnaud; Soudant, Philippe; Robbens, Johan.  
4 p. 2014.

Research output: Other contribution

**DGGE fingerprinting for microbial community monitoring as a new tool for anthropogenic impact assessment on the Belgian part of the North Sea.** / Devriese, Lisa; Maes, Sara; De Tender, Caroline; Baeyen, Steve; Bekaert, Karen; Cremelie, Pieter; Robbens, Johan.

Which future for the sand extraction in the Belgian part of the North Sea?: Study day 20 october 2014. ed. / Lies De Mol; Helga Vandenreyken. 2014. p. 1-118.

Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract

**Population genomics @ ILVO - Plant Sciences Unit.** / Haegeman, Annelies; Ruttink, Tom; Muylle, Hilde; Verwimp, Christophe; van Parijs, Frederik; Van Glabeke, Sabine; Roldán-Ruiz, Isabel; Debode, Jane; Baeyen, Steve; De Tender, Caroline; Maes, Martine.

2014. Poster session presented at Agricultural -Omics course (European Bioinformatics Institute), Hinxton, United Kingdom.

Research output: Contribution to conference › Poster

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