

DEPARTMENT OF PLANTS AND CROPS

We conduct research and provide academic teaching in the domains of plant breeding, ecophysiology and the production of healthy plants and crops in dynamic and socially accepted cropping systems.

TOPICS

- Integrated crop protection
- Eco-efficient and sustainable production systems, growth and prediction models
- (Eco)physiology and agroecology
- Sensor technology, technical and biotechnical innovations in breeding, propagation, multiplication and production of plants and crops in open field, in glasshouses and *in vitro*



IMPACT

- Sustainable production of plants and crops for a wide array of end uses
- Training science-based plant and crop specialists with open, critical minds and engineers' attitudes

CONTACT

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www.ugent.be/bw/plants-and-crops

ACADEMIC STAFF

Kris Audenaert	Plant pathology, mycology, mycotoxins, phytotoxins
Benny De Cauwer	Crop husbandry, weed science, integrated weed management
Patrick De Clercq	Entomology, acarology, biological and integrated control of crop pests
Danny Geelen	Plant research: <i>in vitro</i> biotechnology, breeding, propagation, sexual reproduction, space applications
Geert Haesaert	Crop production, plant breeding and crop protection, toxigenic fungi and mycotoxins
Monica Höfte	Plant pathology, molecular plant-pathogen interactions, biological and integrated control of plant diseases
Jan Pieters	Thermic processes, heat and mass transfer, energy, agricultural engineering
Dirk Reheul	Agronomy: crop husbandry, grassland and ley-arable farming. Plant breeding: methods and techniques, variety development, plant breeders' rights. Plant physiology and sustainable systems.
Guy Smagghe	Entomology, crop protection, novel insecticide mechanisms, insect biotechnology, RNA interference, risk assessment of pesticides, pollinators and pollination
Pieter Spanoghe	Formulation, application and analysis of pesticides, (side) effects of pesticides, exposure assessment of man and environment
Kathy Steppe	Eco-physiology, plant-water relations, carbon metabolism and respiration, plant monitoring and stress detection with plant sensors, plant modelling, development of plant-based control strategies, effects of climate change on the physiology of plants, trees and ecosystems
Luc Tirry	Agrozoology, entomology, acarology, insecticide resistance, integrated pest control of animal-noxious agents
Patrick Van Damme	Tropical and subtropical agriculture and ethnobotany, domestication of medicinal plants, development cooperation and rural development, micro-financing systems, integrated and sustainable development, biodiversity and agroforestry
Marie-Christine Van Labeke	Crop physiology, abiotic stress, light quality (LED) and plant response, sustainable production
Thomas Van Leeuwen	Molecular acarology and genomics, insecticide resistance, molecular mite-plant interactions, new insecticide target-sites
Stefaan Werbrouck	Horticulture, <i>in vitro</i> culture of plants (especially trees), <i>in vitro</i> breeding of plants
Wim Wesemael	Nematology