

Research topics of the professors in Bioscience Engineering

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Professor	Phone	Email	Research topic
Department of Agricultural Economics			
Jeroen Buysse	+32 9 264 59 27	j.buysse@ugent.be	Agricultural and environmental policy analysis
Luc D'Haese (prof. em.)	+32 9 264 60 88	luc.dhaese@ugent.be	Agricultural economics in developing countries
Marijke D'Haese	+32 9 264 60 88	marijke.dhaese@ugent.be	Rural development economics, agricultural economics in developing countries
Xavier Gellynck	+32 9 264 59 23	xavier.gellynck@ugent.be	Agro-food marketing & chain management
Stijn Speelman	+32 9 264 93 75	stijn.speelman@ugent.be	Natural resource management and Economics
Guido Van Huylenbroeck	+32 9 264 59 26	guido.vanhuylenbroeck@ugent.be	Agricultural economics, agricultural and rural development policy, rural environmental economics
Wim Verbeke	+32 9 264 61 81	wim.verbeke@ugent.be	Agro-marketing and consumer behavior
Jacques Viaene (prof. em.)	+32 9 264 59 44	jacques.viaene@ugent.be	General agricultural economics, rural sociology and extension
Department of Plant Production			
Benny De Cauwer	+32 9 264 90 64	benny.decauwer@ugent.be	Crop husbandry, weed science, integrated weed management

Pieter De Frenne	+32 9 264 90 30 +32 9 264 90 65	pieter.defrenne@ugent.be	General and applied botany, climate change, global change, biodiversity, agroecology
Danny Geelen	+32 9 264 60 76 +32 479 940 252	danny.geelen@ugent.be	Plant research: in vitro biotechnology, breeding, propagation, sexual reproduction, space applications
Dirk Reheul	+32 9 264 60 96	dirk.reheul@ugent.be	Agronomy and plant breeding: grass and forage crops, plant physiology, sustainable agriculture strategies, methods and techniques in plant breeding, plant breeders' right
Patrick Van Damme	+32 9 264 60 87	patrick.vandamme@ugent.be	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	+32 9 264 60 71	mariechristine.vanlabeke@ugent.be	Crop physiology, abiotic stress, light quality (LED) and plant response, Sustainable production
Department of Crop Protection			
Patrick De Clercq	+32 9 264 61 58	patrick.declercq@ugent.be	Entomology, acarology, biological and integrated control of crop pests
Monica Höfte	+32 9 264 60 17	monica.höfte@ugent.be	Fytopathology, molecular plant-pathogen interactions, biological and integrated control of plant diseases
Maurice Moens (prof. em.)	+32 9 272 24 44	maurice.moens@ugent.be	Nematology

Guy Smagghe	+32 9 264 61 50	guy.smagghe@ugent.be	Agrozoology, entomology, in vitro culture of insectcells, pest control
Pieter Spanoghe	+32 9 264 60 09	pieter.spanoghe@ugent.be	Formulation, application and analysis of pesticides, (side) effects of pesticides, exposure assessment of men and environment
Luc Tirry	+32 9 264 61 52	luc.tirry@ugent.be	Agrozoology, entomology, acarology, insecticide resistance, integrated pest control of animal noxious agents
Thomas Van Leeuwen	+32 9 264 61 43	thomas.vanleeuwen@ugent.be	Molecular acarology and genomics, insecticide resistance, molecular mite-plant interactions, new insecticide target-sites
Department of Forest and Water Management			
Lander Baeten	+32 9 264 90 36	lander.baeten@ugent.be	Biodiversity, nature management and restoration, quantitative ecology
Robert De Wulf	+32 9 264 61 10 +32 471/99 41 80	robert.dewulf@ugent.be	Forest management, remote sensing, GIS, tropical forestry, academic development cooperation
Diego Miralles	+32 9 264 61 37	diego.miralles@ugent.be	global hydrology, ecohydrology, land-atmosphere feedbacks, climate extremes
Joris Van Acker	+32 9 264 61 20	joris.vanacker@ugent.be	Wood biology and technology
Frieke Vancoillie	+32 9 264 61 08	frieke.vancoillie@ugent.be	Remote Sensing and GIS
Jan Van den Bulcke	+32 9 264 61 18	jan.vandenbulcke@ugent.be	Wood biology, wood technology, tree growth, non-destructive testing (especially for wood research), imaging techniques (light microscopy, X-ray CT scanning, etc.

Kris Verheyen	+32 9 264 90 27	kris.verheyen@ugent.be	Forest and nature management, functional biodiversity, ecosystem services
Niko Verhoest	+32 9 264 61 38	niko.verhoest@ugent.be	Hydrology en water management
Department of Biosystems Engineering			
Jan Pieters	+32 9 264 61 88	jan.pieters@ugent.be	Thermic processes, heat and mass transfer, energy, agricultural engineering
Ivan Pollet	+32 9 264 61 87	ivan.pollet@ugent.be	Agrarian construction
Wolter Prins (prof. em.)	+32 9 264 61 30	wolter.prins@ugent.be	Thermochemical conversion of biomass, especially related to advanced processes of gasification and pyrolysis of biomass, research in relation to the production of bio-oil, biochar and torrefied biomass
Frederik Ronsse	+32 9 264 62 00	frederik.ronsse@ugent.be	Thermochemical biomass conversion, biochar production, processing techniques
Eveline Volcke	+32 9 264 61 29	eveline.volcke@ugent.be	Biosystems control and design, environmental engineering, bioconversion processes
Department of Biochemical and Microbial Technology			
Nico Boon	+32 9 264 59 76	nico.boon@ugent.be	Applied environmental ecology, molecular community analysis, bio remediation
Bart De Gusseme	+32 9 264 59 76	bart.degusseme@ugent.be	Biological wastewater treatment, drinking water production and disinfection, microbial reuse technology
Marjan De Mey	+32 9 264 60 26	marjan.demey@ugent.be	Industrial biotechnology, metabolic engineering
Tom Desmet	+32 9 264 99 20	t.desmet@ugent.be	Biocatalysis and enzyme engineering
Korneel Rabaey	+32 9 264 59 76	korneel.rabaey@ugent.be	Water treatment, bioproduction, renewable raw materials, (bio)electrochemical conversions

Wim Soetaert	+32 9 264 60 83	wim.soetaert@ugent.be	Industrial biotechnology, biokatalysis, enzymtechnology, fermentation technology
Inge Van Bogaert	+32 9 264 60 34 +32 9 264 60 33	inge.vanbogaert@ugent.be	Industrial biotechnology, biosurfactants, yeasts and fungi, cellular export over biological membranes, transporters
Tom Van de Wiele	+32 9 264 59 76	tom.vandewiele@ugent.be	Microbe-host interactions, Gastrointestinal microbial technology, Microbial metabolic potency, Bioavailability processes
Siegfried Vlaeminck	+32 9 264 59 76	siegfried.vlaeminck@ugent.be	Wastewater treatment: biotechnology for nitrogen removal and recovery (nitritation, anammox, nitrification, denitritation, denitrification, microalgae, single cell protein)
Willy Verstraete (prof. em.)	+32 9 264 59 76	willy.verstraete@ugent.be	Microbial Resource Management : the design, operation and control of processes mediated by mixed microbial cultures. Drinking water production plants (slow sand filtration), aerobic wastewater treatment, anaerobic digestion of wastewaters and sludges, solid state fermentation of organic residues and bioremediation processes of soils and sediments.
Department of Food Safety and Food Quality			
Bruno De Meulenaer	+32 9 264 61 66	bruno.demeulenaer@ugent.be	Food chemistry, chemical analysis of food products, chemical aspects of food safety
Frank Devlieghere	+32 9 264 61 64	frank.devlieghere@ugent.be	Food microbiology, conservation and packaging
Koen Dewettinck	+32 9 264 61 65	koen.dewettinck@ugent.be	Food Technology and processes

Philippe Heynderickx	+82 32 626 4206	philippe.heynderickx@ugent.be	Kinetics, heterogeneous catalysis, parameter estimation, environmental, mass spectrometric analysis, experiment-model-based analysis; organic chemistry, process engineering, environmental chemistry
Liesbeth Jacxsens	+32 9 264 60 85 +32 9 264 61 33	liesbeth.jacxsens@ugent.be	quality assurance in agri-food chain, food safety management systems, HACCP, risk analysis, microbiological and chemical risk assessment
Patrick Kolsteren	+32 9 264 99 04	patrick.kolsteren@ugent.be	Food epidemiology, Human food and health
Carl Lachat	+32 9 264 93 77	carl.lachat@ugent.be	Nutrition epidemiology, nutrition and health, nutrition policy
Peter Ragaert	+32 9 264 99 30	peter.ragaert@ugent.be	Packing technology of food products
Andreja Rajkovic	+32 9 264 99 04	andreja.rajkovic@ugent.be	Food safety, food microbiology, microbial toxins, virulence
Benedikt Sas	+32 9 264 9940	benedikt.sas@ugent.be	Innovation management in the agro-food industry, Intellectual Property and valorisation, R&D Management, Corporate Management
Mieke Uyttendaele	+32 9 264 61 78	mieke.uyttendaele@ugent.be	Microbial analysis of food, microbial food security
John Van Camp	+32 9 264 62 08	john.vancamp@ugent.be	Food science, human nutrition, nutrition and health
Department of Applied Analytical and Physical Chemistry			

Pascal Boeckx	+32 9 264 60 00	pascal.boeckx@ugent.be	Analyses and application of isotopes in bioscience Tropical terrestrial Ecosystems Greenhouse gas emissions and sinks
Gijs Du Laing	+32 9 264 59 95	gijs.dulaing@ugent.be	Analysis, chemistry and technology of trace elements in food and environment
Erik Meers	+32 478 78 60 98	erik.meers@ugent.be	Agro-industrial environmental chemistry & -technology
Filip Tack	+32 9 264 59 93	filip.tack@ugent.be	Biogeochemistry of trace elements, environmental impact of heavy metals, pollution of soil and sludge, chemical analysis
Paul Van Der Meeren	+32 9 264 60 03	paul.vandermeeren@ugent.be	Particle and interfacial technology
Arne Verliefde	+32 9 264 60 02	arne.verliefde@ugent.be	Water treatment: drinking and industrial water, physicochemical treatment of waste water
Department of Applied Ecology and Environmental Biology			
Karel De Schamphelaere	+32 9 264 37 64	karel.deschamphelaere@ugent.be	Chemical stress ecology: combined effects of chemical substances, climate change and natural stress factors on populations and ecosystems (included micro-evolutionary repons), ecotoxicology, risk analysis of heavy metals in (aquatic) environment, ecological modelling of populations and ecosystems

Peter Goethals	+32 9 264 37 68	peter.goethals@ugent.be	Water management, Ecotechnology, River monitoring, Ecological evaluation, Water quality management, Water policy, Sustainable water management, European Water Directive, Water related problems in developing countries
Colin Janssen	+32 9 264 37 75	colin.janssen@ugent.be	Ecotoxicology and environmental risk analysis, effects of chemical substances on the environment, EU environmental policy
Kathy Steppe	+32 9 264 61 12	kathy.steppe@ugent.be	Eco-physiology, plant-water relations, carbon metabolism and respiration, plant monitoring and stress detection with plant sensors, plant modeling, development of plant based control strategies (eg. steering of irrigation), effects of climate change on the physiology of plants, trees and ecosystems
Hans Verbeeck	+32 9 264 61 13	hans.verbeeck@ugent.be	terrestrial ecosystem ecology, vegetation modelling, carbon and water cycling in (tropical) forests, vegetation dynamics and biogeochemistry of forests, global change ecology, impacts of climate and land use change
Department of Mathematical Modelling, Statistics and Bioinformatics			
Bernard De Baets	+32 9 264 59 41	bernard.debaets@ugent.be	Mathematical modeling (knowledge-based, predictive and spatio-temporal) and operational research
Tim De Meyer	+32 9 264 99 22	tim.demeyer@ugent.be	High-throughput data-analysis (quantitative next-generation sequencing applications), high-throughput epigenetics

Ingmar Nopens	+32 9 264 59 39	ingmar.nopens@ugent.be	Model based analysis and optimisation using mechanistic models (biokinetic, CFD, PBM)
Jean-Pierre Ottoy (prof. em.)	+32 9 264 59 34	jeanpierre.ottoy@ugent.be	Mathematics, informatics, bio-statistics
Olivier Thas	+32 9 264 59 33	olivier.thas@ugent.be	Bio-statistics
Wim Van Criekinge	+32 9 264 99 47 +32 477 50 37 12	wim.vancriekinge@ugent.be	Bio-informatics en computational genomics, epigenetics, translational medicine
Willem Waegeman	+32 9 264 92 00	willem.waegeman@ugent.be	Machine learning, data science, big data analytics
Department of Sustainable organic chemistry and technology			
Norbert De Kimpe (prof. em.)	+32 9 264 59 51	norbert.dekimpe@ugent.be	Organic synthesis, heterocyclic chemistry, agricultural chemistry, natural products
Matthias D'hooghe	+32 9 264 93 94	matthias.dhooghe@ugent.be	Organic and bioorganic chemistry, heterocyclic chemistry, synthesis of bioactive compounds
Kristof Demeestere	+32 9 264 59 65	kristof.demeestere@ugent.be	Analysis and technology of organic minor components
Jo Dewulf	+32 9 264 59 49	jo.dewulf@ugent.be	Environmental and clean technology
Sven Mangelinckx	+32 9 264 59 51	sven.mangelinckx@ugent.be	<ul style="list-style-type: none"> • Chemistry of non-proteinogenic amino acids, azaheterocycles and natural products • isolation, analysis, synthesis and modification of bioactive natural products

Christian Stevens	+32 9 264 59 57	chris.stevens@ugent.be	Heterocyclic chemistry, aminophosphonate chemistry, micro-reactortechnology, chemical modification of renewable sources
Herman Van Langenhove	+32 9 264 59 53	herman.vanlangenhove@ugent.be	Environmental chemistry and technology, Air pollution, odour interference
Department of Soil Management			
Wim Cornelis	+32 9 264 60 40	wim.cornelis@ugent.be	Soil physics, soil water management, soil quality, water and soil conservation
Stefaan De Neve	+32 9 264 60 61	stefaan.deneve@ugent.be	Soil fertility
Peter Finke	+32 9 264 46 30	peter.finke@ugent.be	Modelling of soil formation under global change; geostatistical (soil) mapping; landscape reconstruction
Abdul Mouazen	+32 9 264 60 37	abdul.mouazen@ugent.be	Precisielandbouw, bodemscans voor landbouw
Steven Sleutel	+32 9 264 60 55	steven.sleutel@ugent.be	Organic matter management in agro-ecosystems, carbon sequestration and greenhouse gas emissions, terrestrial biogeochemical cycles
Marc Van Meirvenne	+32 9 264 60 56	marc.vanmeirvenne@ugent.be	Spatial soil inventarisation techniques
Ann Verdoodt	+32 9 264 60 36	ann.verdoodt@ugent.be	Soil degradation, soil quality, land evaluation, land use management, soil information systems
Department of Animal Production			

Peter Bossier	+32 9 264 37 59	peter.bossier@ugent.be	Microbiological and genetical aspects of the aquatic larviculture
Stefaan De Smet	+32 9 264 90 03	stefaan.desmet@ugent.be	Animal husbandry, meat science, quality of animal products
Veerle Fievez	+32 9 264 90 02	veerle.fievez@ugent.be	Animal feed, digestive physiology of agricultural animals, microbial digestive processes
Patrick Sorgeloos (prof. em.)	+32 9 264 37 53	patrick.sorgeloos@ugent.be	Aquaculture: controlled culture of aquatic organisms
Daisy Vanrompay	+32 9 264 59 72	daisy.vanrompay@ugent.be	Immunology and biotechnology of the animal cell, Chlamydia infections with men and animal, vaccine development, WIV reference laboratory for Chlamydia diagnostics, EHEC infections in ruminants and humans, bacterium host cell interactions and immunity against these infections in aquaculture
Gilbert Van Stappen	+32 9 264 61 82	gilbert.vanstappen@ugent.be	Live food and larviculture aspects of aquaculture; aquaculture nutrition
Department of Molecular Biotechnology			
Godelieve Gheysen	+32 9 264 58 88	godelieve.gheysen@ugent.be	Plant biotechnology
Tina Kyndt	+32 9 264 59 69	tina.kyndt@ugent.be	molecular plant-nematode interactions, rice, plant defence, epigenetics
André Skirtach	+32 9 264 59 69	andre.skirtach@ugent.be	encapsulation (encapsulation of biomolecules) nanoparticles & nanoplasmonics (thermodynamics at the nanoscale) bioimaging & Raman scattering (confocal and label-free microscopy) polymeric biomaterials (spherical and planar interfaces) drug delivery, intracellular delivery (general drug delivery, vehicles)

Els Van Damme	+32 9 264 60 86	elsjm.vandamme@ugent.be	Biochemistry and glycobiology, plant lectins, protein-carbohydrate interactions and signal transduction in plants, and their importance for plant development
Patrick Van Oostveldt	+32 9 264 59 69	patrick.vanoostveldt@ugent.be	Biochemistry en molecular Cytology, Microscopical space techniques
Department of Applied biosciences			
Kris Audenaert	+32 9 264 60 17	kris.audenaert@ugent.be	Phytopathology, mycology, mycotoxins, phytotoxins
Geert Baert	+32 9 242 42 78	geert.baert@ugent.be	Soil fertility, soil survey, tropical soils
Yves Briers	+32 9 243 24 53	yves.briers@ugent.be	Enzyme engineering, industrial biotechnology, medical biotechnology
Frank Coopman	+32 497 24 20 06	frank.coopman@ugent.be	Animal genetics, breeding and selection
Leen De Gelder	+32 9 242 42 35	leen.degelder@ugent.be	Environmental biotechnology, applied microbiology
Mia Eeckhout	+32 9 242 42 76	mia.eeckhout@ugent.be	Food sciences, corn, baking and feed technology; dough rheology
Dirk Fremaut		dirk.fremaut@ugent.be	Livestock breeding, livestock feed, feed for domestic animals
Geert Haesaert	+32 9 242 42 70 +32 475 29 44 77	geert.haesaert@ugent.be	Crop production, plant breeding and crop protection, toxigenic fungi and mycotoxins
Jan Mertens	+32 9 248 88 61	jan.mertens@ugent.be	Ecological restoration, heavy metals in (forest)ecosystems, management of urban green spaces
Kathy Messens	+32 9 242 42 95	kathy.messens@ugent.be	Agro and food biotechnology

Joris Michiels	+32 9 264 90 00 +32 494 91 84 30	joris.michiels@ugent.be	nutrition of monogastrics; digestive physiology of pigs and poultry; weaning of piglets; gut microbiota; feed additives
Anita Van Landschoot	+32 9 242 42 36	anita.vanlandschoot@ugent.be	Brewing technology, Industrial microbiology, Enzyme and glycototechnology
Pieter Vermeir	+32 9 242 42 44	pieter.vermeir@ugent.be	Nanotechnology: detection and characterization, chemical analysis
Stefaan Werbrouck	+32 9 248 88 59	stefaan.werbrouck@ugent.be	Horticulture, in vitro culture of plants (especially trees), in vitro breeding of plants
Department of Industrial biological sciences			
Steven De Meester	+32 56 24 12 36	steven.demeester@ugent.be	Sustainable design of process chains, separation processes, downstream processing, pretreatment of solid plastic waste, design of water symbiosis
Jan De Smet	+32 56 24 12 40	janm.desmet@ugent.be	General Chemistry and Biology, Biochemistry and Metabolic cell processes
Ann Dumoulin	+32 56 24 12 33	ann.dumoulin@ugent.be	Chemical analyses, synthetic materials, materials
Katleen Raes	+32 56 24 12 55	katleen.raes@ugent.be	Fermentation processes, enzymatic conversions, valorisation of by-products, fermented food, bioactive components
Diederik Rousseau	+32 56 24 12 54	diederik.rousseau@ugent.be	Natural water purification systems (algae ponds, reed lands, ...), water quality
Imca Sampers	+32 56 24 12 59	imca.sampers@ugent.be	Chemical and microbiological quality of food and irrigation- and process water, risk assessment
Stijn Van Hulle	+32 56 24 12 11	stijn.vanhulle@ugent.be	design, engineering and application of industrial water treatment (biological aerobic purification, nutrient removal, physicochemical purification, (advanced) oxidation processes), LED H2O

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