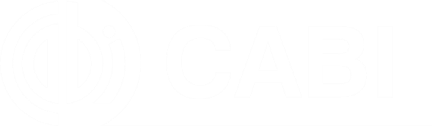




Editorial Directory – June 2021

**CABI Agriculture**

**and Bioscience**

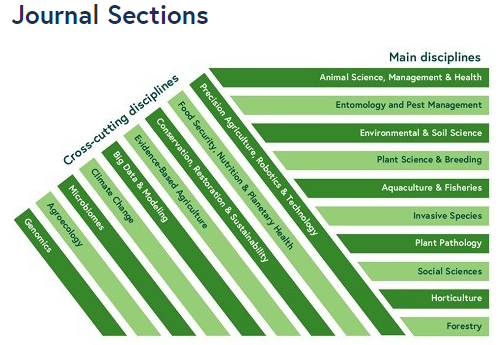
Aims and Scope



Global agriculture faces many challenges today, including how to produce safe and sustainable food supplies while reducing greenhouse gasses and protecting planetary health. *CABI Agriculture and Bioscience (CABI A&B)* was created to help address these challenges by publishing high quality, rigorously peer-reviewed research focused on agriculture, food security, and the environment, and **by creating a publishing space for highly transdisciplinary research.**

*CABI A&B* is aligned with CABI’s mission of improving people’s lives worldwide by providing information and applying scientific expertise to solving these multifaceted problems. The journal is fully open access and committed to encouraging an inclusive culture of scientific discussion and rapid information sharing. It adheres to all international standards and practices for high level scientific journals.

Our Editorial Board includes top researchers from around the world and reflects the broad array of scientific disciplines and global diversity of expertise, perspectives, and approaches used to evaluate the complex topics we cover. Editors encourage submissions of both large and incremental advances in science in both primary and cross-cutting disciplines, ranging from the biosciences to agriculture, social sciences, and the environment. In March of 2021, our expanding editorial board included 127 experts – including 43 women– covering 19 areas of primary and transdisciplinary studies, representing 35 different countries. Our journal sections include



* This directory has been compiled to support the Editorial Board of *CABI Agriculture and Bioscience* in becoming a coherent community of interdisciplinary scholars and reviewers.
* The Directory is searchable and should be used by Editors to identify other editors on our highly interdisciplinary Board who have expertise in areas discussed in manuscripts and to draw on each other as reviewers.
* Every Editor on the board is registered in the journal peer-review system as a reviewer and should be used as such whenever appropriate.
* The Directory will be updated several times a year as new Editors join the Board.

Please direct questions and comments to p.benson@cabi.org

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Editorial Board Leadership – Regional Editors in Chief

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|  |  |  |  |
| **Niklaus Grünwald**  Chair, Editorial Board Regional Chief Editor – North America | **Pablo Marquet** Regional Chief Editor – South America | **Rajeev Varshney**  Regional Chief Editor – South Asia | **Wenbin Wu**  Regional Chief Editor – Asia Pacific |

Editorial staff

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Dylan Parker**  Publisher, Springer Nature, BMC | **Kerri Brown** Journal Development Editor, Springer Nature, BMC | **Andy Robinson** Managing Director, Publishing – CABI | **Philippa Benson**  **Managing Editor** |

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| CABI Agriculture and Bioscience  is the official journal of CABI,  co-managed by BMC part of Springer Nature. |  |

Agroecology

This section covers research investigating how ecological principles and processes can be applied to improve agricultural production systems. We will consider studies of new and revised approaches to building and managing agricultural ecosystems including organic, integrated, or conventional, intensive or extensive, new management approaches.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **TBD** |  |  |
| **Christian Borgemeister**  University of Bonn Germany | [cb@uni-bonn.de](mailto:cb@uni-bonn.de) | Agroecology, biological control, integrated pest management, vector control of infectious diseases, malaria, one health |
| **Marcia DeLonge**  Union of Concerned Scientists  Food & Environment Program USA | [mdelonge@ucsusa.org](mailto:mdelonge@ucsusa.org) | Agroecology, sustainable agriculture, soil science, soil health, climate change adaptation & mitigation, biogeochemistry, resilience, policy, grazing management, food security, sustainable diets, life cycle assessments, modelling |

Animal Science, Management and Health

Editors of this section welcome all manuscripts on fundamental or applied research related to studies of any animal species under human management, including wildlife. Editors have strong interest in studies related to genetics, physiology, immunology, nutrition, disease, molecular, and cellular science, and welcome work addressing issues in animal management or work exploring the preparation, use, or distribution of foods derived from animal sources. The journal supports the One Health Concept reflecting a shared biology at the intersection of human, animal, and environmental health and welcomes multidisciplinary research exploring links between agricultural sciences and other fields.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Peter Hansen**  University of Florida  USA | [pjhansen@ufl.edu](mailto:pjhansen@ufl.edu) | Livestock and Animal Science, climate change, reproductive biology, reproductive technologies, developmental biology, environmental physiology, genetics, thermal biology, embryology |
| **Ryan Dilger**  University of Illinois at Urbana-Champaign  USA | [rdilger2@illinois.edu](mailto:rdilger2@illinois.edu) | Livestock and Animal Science, Food security and nutrition, Evidence-based agriculture, microbiomes, big data, robotics and precision agriculture pig, broiler chicken, amino acid, biochemistry, health, pediatric nutrition, brain development, immunology, neuroscience |
| **Ermias Kebreab**  University of California,  Davis  USA | [ekebreab@ucdavis.edu](mailto:ekebreab@ucdavis.edu) | Animal production, sustainable agriculture, methane, greenhouse gases, feed additives, meta-analysis, seaweed, mitigation, energy and nutrient utilization/requirement models in cattle, swine and poultry, environmental sustainability. |
| **Joanna Lindahl**  Uppsala University Kenya | [J.Lindahl@cgiar.org](mailto:J.Lindahl@cgiar.org) | Livestock and animal science, emerging infectious diseases, vector-borne diseases, zoonotic diseases, food safety, food security |
| **Graeme Martin**  University of Western Australia  Australia | [graeme.martin@uwa.edu.au](mailto:graeme.martin@uwa.edu.au) | Evidence-based agriculture, livestock and animal science, reproduction, neuroscience, physiology, endocrinology, behaviour, metabolic endocrinology, nutrition and reproduction, pheromones, ethical animal production, future farming systems, world food production |
| **Sofia Ortega**  University of Missouri  USA | [ortegaobandom@missouri.edu](mailto:ortegaobandom@missouri.edu) | Livestock and animal science, bovine reproductive physiology, embryology, animal production, genetics, genomics |
| **Marcos da Silva**  Brazilian Agricultural Research Corporation  Brazil | [marcos.vb.silva@embrapa.br](mailto:marcos.vb.silva@embrapa.br) | Livestock and animal science, milk production, dairy cattle, animal models, quantitative trait loci, restricted maximum likelihood, genomics, bioinformatics |
| **Carina Visser**  U of Pretoria  South Africa | [carina.visser@up.ac.za](mailto:carina.visser@up.ac.za) | Animal breeding and genetics, Biodiversity, Population genetics, Molecular breeding, Indigenous breeds, Small stock, Beef cattle, Smallholders |
| **Kun Zhang**  Zhejiang University  China | [kzhang@zju.edu.cn](mailto:kzhang@zju.edu.cn) | Livestock and animal science, developmental biology, reproductive physiology, embryology, oocyte, chromatin, epigenetics, genome editing, cattle, pig, fertility, reprogramming |

Aquaculture and Fisheries

Editors of this section welcome all manuscripts related to aquaculture and fisheries whether farmed or in the wild, in both fresh water and ocean environments. We are interested in studies involving the breeding, rearing, and harvesting of animals and plants in all types of water environments as well as studies related to conservation, ecology, sustainability studies as well as implications for marine mammals, endangered species, and their habitats.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION and**  **ASSOCIATION EDITORS** | **Forthcoming** |  |
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Big Data and Modelling

Editors of this section welcome manuscript that present novel findings that advance current knowledge on how large and comprehensive datasets, models, and decision support systems foster the development of a more sustainable agriculture to effectively address climate change challenges. Authors are specially encouraged to present studies that demonstrate their use on the optimum design and monitoring of nature-based solutions in agriculture. Editors have strong interest in studies related to advances in sensor technology, data analytics, remote sensing, robotics, and artificial intelligence and how these tools are being applied in the current revolution of digital agriculture.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Francisco Meza**  Pontifical Catholic University of Chile | [fmeza@uc.cl](mailto:fmeza@uc.cl) | Big data and modelling impacts of global change on agriculture, forest and water resources, adaptation strategies |
| **Rebecca Darbyshire**  CSIRO  Australia | [Rebecca.Darbyshire@csiro.au](mailto:Rebecca.Darbyshire@csiro.au) | Climate change, horticulture, phenology, winter chill, seasonal climate, climate risk, climate change adaptation, forecasts |
| **Delphine Deryng**  Humboldt University  Germany | [deryngde@hu-berlin.de](mailto:deryngde@hu-berlin.de) | Climate change, food security and nutrition, climate policy, adaptation, mitigation, agroforestry, global gridded crop model |
| **Lav Ojiewo**  Washington State University  USA | [lav.khot@wsu.edu](mailto:lav.khot@wsu.edu) | Agricultural automation, remote sensing, aerial systems, ground-based crop sensing, decision-support systems, precision agriculture and production machinery and processes, data-based modelling |
| **Fulu Tao**  Chinese Academy of Science  China | [taofl@igsnrr.ac.cn](mailto:taofl@igsnrr.ac.cn) | Global change impacts, agrosystem modelling, multisource data, crop prediction, remote sensing data |

Climate change

CABI A&B climate change sections aims to publish research on the nature, causes and impacts of global climate change ranging across the natural and social sciences. Studies on terrestrial and aquatic ecosystems, as well as interdisciplinary studies are welcome.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Zhu Liu**  Tsinghua U. China  Harvard U., USA | [zhuliu@tsinghua.edu.cn](mailto:zhuliu@tsinghua.edu.cn) | Carbon emission, sustainability science, industrial ecology, earth system science, global caron budget, air pollution, energy policy |
| **Emily Black**  University of Reading  UK | [e.c.l.black@reading.ac.uk](mailto:e.c.l.black@reading.ac.uk) | Climate change, big data, modelling, environmental and soil science, hydrological cycle & hazards, Land-atmosphere interactions, African climate, rainfall monitoring, user-driven knowledge exchange |
| **Anping Chen**  Colorado State University  USA | [**anping**.**chen**@colostate.edu](mailto:anping.chen@colostate.edu) | [Vegetation dynamics](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:vegetation_dynamics), [ecosystem ecology](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:ecosystem_ecology), [global change ecology](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:global_change_ecology), [carbon cycle](https://scholar.google.com/citations?view_op=search_authors&hl=en&mauthors=label:carbon_cycle) |
| **Hongyan Liu**  Peking University  China | [lhy@urban.pku.edu.cn](mailto:lhy@urban.pku.edu.cn) | Vegetation dynamics, dryland vegetation, palaeoecology, dendroecology |
| **Jiafu Mao**  Oakridge National Lab  USA | [maoj@ornl.gov](mailto:maoj@ornl.gov) | Climate change, Land-atmosphere interactions, Carbon-climate feedbacks, Earth system modeling |
| **Miaogen Shen**  Beijing Normal University  China | [shenmiaogen@bnu.edu.cn](mailto:shenmiaogen@bnu.edu.cn) | Global change ecology, vegetation remote sensing, climate change, phenology |
| **Cong Wang**  Beijing Normal University  China | [wangcong01@caas.cn](mailto:wangcong01@caas.cn) | Climate change, precipitation |
| **Zhenzhong Zeng**  Southern University of Science and Technology  China | [zengzz@sustech.edu.cn](mailto:zengzz@sustech.edu.cn) | Earth system science, biosphere-atmosphere interaction, hydrological cycles |

Conservation, Restoration and Sustainability

Editors of this section welcome manuscripts addressing broad and interdisciplinary issues of sustainability, ecological restoration, and conservation across ecosystems and human enterprises. We are particularly interested in manuscripts reporting new evidence, theoretical insights and potential solutions for restoration, conservation, and sustainability practices. Editors welcome submissions aimed at topics such as connecting above and below ground processes, understanding and steering biogeochemical cycles, assessing and planning for ecosystem services, managing landscapes for production and conservation.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Pablo Marquet**  Pontifical Catholic U. of Chile | [pmarquet@bio.puc.cl](mailto:pmarquet@bio.puc.cl) | Conservation biology, biodiversity, climate change, nature-based solutions, theoretical ecology, macroecology |
| **Leslie Brown**  U. of South Africa  South Africa | [lrbrown@unisa.ac.za](mailto:lrbrown@unisa.ac.za) | Plant science, phytosociology, vegetation mapping, vegetation management, alien invasive plant species, restoration, succession, nature conservation, biodiversity |
| **Ek del-Val**  National Autonomous U. of Mexico  Mexico | [ekdelval@cieco.unam.mx](mailto:ekdelval@cieco.unam.mx) | Entomology and pest management, invasive species, agroecology, sustainability, conservation and restoration.  maize agriculture, insect pests, plant-animal interactions, native biocontrol, restoration ecology, plant-herbivore networks, tropical ecology |
| **Elisabetta Gotor**  Alliance b/t Biodiversity International and CIAT  Italy | [e.gotor@cgiar.org](mailto:e.gotor@cgiar.org) | Agricultural economics, impact assessment, evaluation, foresight analysis food security, agrobiodiversity, qualitative/quantitative methods of analysis |
| **Esteban Jobbágy**  National U. of San Luis  Argentina | [jobbagy@gmail.com](mailto:jobbagy@gmail.com) | Water cycling in agricultural systems, technological changes, ecology, agronomy, biogeochemistry, ecohydrology, land use change, flooding and salinization processes, South American croplands, farmers and policy-maker engagement, grain producing systems, local social and economic contexts, remote sensing |
| **Ana Isabel Moreno-Calles**  Spanish National Research Council  Mexico | [isabel\_moreno@enesmorelia.unam.mx](mailto:isabel_moreno@enesmorelia.unam.mx) | Environmental science, training, agroforestry, ethnoecology, sequence stratigraphy, climate change, geochemistry, family agriculture, urban and peri-urban transdisciplinary research |
| **Simoneta Negrete-Yankelevich**  Institute of Ecology  Veracruz, Mexico | [simoneta.negrete@inecol.mx](mailto:simoneta.negrete@inecol.mx) | Agroecology, food security and nutrition, soil fertility, family agriculture, traditional polycultures, native crops, crop diversification, soil biota, mycorrhizal symbionts |
| **Victor Sadras**  South Australian Research and Development Institute  Australia | [victor.sadras@sa.gov.au](mailto:victor.sadras@sa.gov.au) | Food security Crop ecophysiology, water, nitrogen, temperature, ecology, evolution |
| **Andres Etter** | [aetter@javeriana.edu.co](mailto:aetter@javeriana.edu.co) |  |

Entomology and Pest Management

Original research and review articles investigating various aspects of general and applied entomology and parasitology are welcome. In particular, authors are encouraged to submit their works on: field validation of sustainable pest management strategies, development of new pest control tools, target impact of modern pesticides and their side effects on non-target organisms (e.g., natural enemies and pollinators), multi-trophic interactions among organisms of natural and artificial ecosystems, arthropod physiology, behaviour and invasion processes. Interdisciplinary research including crossing multiple journal sections, are preferred.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Antonio Biondi**  U. of Catania  Italy | [antonio.biondi@unict.it](mailto:antonio.biondi@unict.it) | Entomology and pest management, invasive insect pests, pesticide toxicology, biological control, integrated pest management, biopesticides |
| **Gianfranco Anfora**  University of Trento  Italy | [gianfranco.anfora@fmach.it](mailto:gianfranco.anfora@fmach.it) | Entomology and pest management, invasive species, integrated pest management, biological control, semiochemicals |
| **Julian Chen**  Chinese Academy of Agricultural Sciences  China | [chenjulian@caas.cn](mailto:chenjulian@caas.cn) | Wheat insect pest biology, area-wide occurrence regularity, mechanism of chemical communication, wheat- pest insects,  wheat aphid resistance, germplasm resources, behavior and ecological manipulation, push-pull strategies, ipm key technology |
| **Alessandro Cini**  U. College London  UK | [cini.ales@gmail.com](mailto:cini.ales@gmail.com) | Zoology, social behaviour, animal communication, social insects, biological invasions |
| **Nicolas Desneux**  National Institute of Agricultural Research  France | [nicolas.desneux@inra.fr](mailto:nicolas.desneux@inra.fr) | Ecology, entomology, biological control, ecotoxicology, community ecology, integrated pest management, pesticides, sublethal effects, hormesis, gm crops, bt |
| **Adeney de Freitas-Bueno**  Embrapa Soybean  Brazil | [adeney.bueno@embrapa.br](mailto:adeney.bueno@embrapa.br) | Integrated pest management (with emphasis in soybean and maize), biological control (with emphasis in egg parasitoids - scelionidae and trichogrammatidae), chemical control (rational use and biological control selectivity). |
| **Khalid Haddi**  Federal U. of Lavras  Brazil | [khalid.haddi@ufla.br](mailto:khalid.haddi@ufla.br) | Entomology and pest management, ecotoxicology, selectivity and insecticide resistance, insect molecular biology, botanicals |
| **Meritxell Pérez Hedo**  Valencian Institute for Agricultural Research  Spain | [perez\_merhed@gva.es](mailto:perez_merhed@gva.es) | Entomology and pest management, zoophytophagous predators, biological control, insect plant interaction, crop protection |
| **James Legg**  International Institute of Tropical Agriculture  Tanzania | [J.Legg@cgiar.org](mailto:J.Legg@cgiar.org) | Cassava viruses, field epidemiology, virus-vector interactions, host plant resistance, field surveillance, vector population dynamics/bionomics, vector-natural enemy interactions, biological control, cultural approaches for virus management. |
| **Ramzi Mansour**  U. of Carthage  Tunisia | [ramzi\_mansour82@yahoo.co.uk](mailto:ramzi_mansour82@yahoo.co.uk) | Biological and biotechnological pest management, chemical control, ecotoxicology, insect chemical and behavioral ecology, invasive arthropods,tuta absoluta, fruit flies, scale insects, mealybugs, thrips, predatory beetles egg parasitoids, grapevine & citrus pest management |
| **Jose Parra**  U. of Sao Paulo  Brazil | [jrpparra@usp.br](mailto:jrpparra@usp.br) | Sustainability, conservation, ecological zoning, perileucoptera coffeella, bioecology, agricultural entomology, biological control and integrated pest management |
| **Michele Potrich**  Federal University of Technology  Brazil | [profmichele@gmail.com](mailto:profmichele@gmail.com) | Entomology and pest management, parasitoid, selectivity, honey bee, entomopathogens, insecticide plants, toxicology, biological control, insect-pest |
| **Joan Van Baaren**  University of Rennes  France | [Joan.van-baaren@univ-rennes1.fr](mailto:Joan.van-baaren@univ-rennes1.fr) | Sustainability, conservation, ecological zoning, perileucoptera coffeella, bioecology, agricultural entomology, biological control and integrated pest management |
| **Houston Wilson**  U. of California, Riverside  USA | [houston.wilson@ucr.edu](mailto:houston.wilson@ucr.edu) | Entomology and pest management, agroecology, sustainability, restoration and conservation, orchards, vineyards, cover crops, biological control, landscape ecology, habitat diversification, mating disruption, sterile insect technique, population ecology, insect movement and dispersal, organic agriculture |
| **Feng Zhang**  CABI  China | [f.zhang@cabi.org](mailto:f.zhang@cabi.org) | Entomology and pest management, invasive species, biological control, ipm, agricultural insect pests, parasitoids, insect chemical ecology, plant-insect interactions, host specificity of biocontrol agent, insect rearing |

Environmental and Soil Science

Editors of this section welcome all manuscripts on fundamental or applied research related to the study of soils anywhere on the planet. We welcome studies of soil health, soil degradation, properties of soils and the study of uses for and management of soil in any agricultural or ecosystem settings worldwide. Acceptable research topics range from studies of soil contamination, degradation, health, and remediation to site assessment and function, erosion control, land treatment of wastewater and stormwater, restoration of wetlands, nutrient management, bioremediation, soil microbes, or soil assessments in land-use planning. The journal is currently recruiting for a Section Editor for this group.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR** | Forthcoming |  |
| **Tilahun Amede**  Alliance for a Green Revolution in Africa (AGRA), International Livestock Research Institute (ILRI)  Ethiopia | [TAmede@agra.org](mailto:TAmede@agra.org) | Crops, drought resistance, conservation practices, soils and watershed management, crop-livestock farming systems |
| **Jing Li**  Chinese Academy of Science  China | [jingli@igsnrr.ac.cn](mailto:jingli@igsnrr.ac.cn) | Environment and soil science, Agricultural pollution characteristics and prevention: non-point source pollution, nitrogen reservoir, nitrogen behavior in deep vadose zone, isotope tracing, heavy metal pollution and prevention. |
| **Radha Prasanna**  Indian Agricultural Research Institute  India | [radhapr@gmail.com](mailto:radhapr@gmail.com) | Agroecology, biofertilizers, biofilms, biofortification, cyanobacteria, carbon sequesteration, microbial inoculants, nutrient mobilization, micronutrient enrichment, biocontrol agents, rhizosphere microbial communities, phyllosphere microbiome, nutrient soil-less media, composts, soil health, evidence-based agriculture, microbiomes, horticulture |
| **Marcela Quintero Tabares**  International Center for Tropical Agriculture (CIAT)  USA | [m.quintero@cgiar.org](mailto:m.quintero@cgiar.org) | Climate change, evidence-based agriculture, sustainability and conservation, food security |

Evidence-based Agriculture

An evidence synthesis follows a structured a-priori methodology that is designed to gather existing research evidence to answer a question. This section covers evidence syntheses that collate, summarize, and synthesize scientific research using structured a-priori methodologies. We accept systematic reviews and systematic maps that follow robust and repeatable methodologies for any topic within the journal’s scope. We do not publish review protocols, but expect authors to have followed an a-priori protocol\*

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Nicola Randall**  Harper Adams U.  UK | [nrandall@harper-adams.ac.uk](mailto:nrandall@harper-adams.ac.uk) | Evidence-based agriculture, agroecology, evidence synthesis methodologies, systematic review & mapping, sustainable agriculture, ecosystem service conservation ecology, biodiversity. invertebrate ecology |

Food Security, Nutrition and Planetary Health

Editors of this section welcome manuscripts addressing issues of food security that are grounded in holistic views of planetary health and that reflect intersectional concerns of social equity, environmental sustainability, and challenges posed by global climate and socio-economic change. We encourage submissions of rigorous study on a broad range of relevant topics including improving production practices, reconfiguring global agricultural economic and trade structures, improving diets, reducing waste, and creating shock resistance in food supply chains. Editors particularly welcome interdisciplinary approaches to evaluating potential trade-offs and synergies between these dimensions.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Sonali McDermid**  New York University  USA | [sps246@nyu.edu](mailto:sps246@nyu.edu) | Food security, climate dynamics, land use, agriculture, agro-ecosystems, sustainable development |
| **Andrew Reid Bell**  Boston University  USA | [bellar@bu.edu](mailto:bellar@bu.edu) | Mobile phone-based Surveys, behavioral experiments, agent-based models, livelihoods decision-making, agricultural development, water management, migration |
| **Frank Davenport**  U. of CA Santa Barbara (UCSB)  USA | [frank\_davenport@ucsb.edu](mailto:frank_davenport@ucsb.edu) | Food security and nutrition, climate change, big data and modelling, evidence-based agriculture, social sciences, public health, forecasting and predictive modelling, child malnutrition, spatial econometrics |
| **Kathryn Grace**  University of Minnesota  USA | [klgrace@umn.edu](mailto:klgrace@umn.edu) | Climate change, social sciences, food security and nutrition, environmental sociology, demography and population studies, quantitative data analysis, advanced statistical modelling, qualitative methods |
| **Ibrahima Hathie**  IPAR  Senegal | [ihathie@ipar.sn](mailto:ihathie@ipar.sn) | Food security, climate change impact, trade-off analysis, sustainable food systems, smallholder agriculture, social sciences, value chain analysis, agricultural policy |
| **David Kanter**  New York University  USA | [david.kanter@nyu.edu](mailto:david.kanter@nyu.edu) | Nitrogen pollution, food security, sustainable development |
| **Dilys MacCarthy**  University of Ghana  Ghana | [dsmaccarthy@gmail.com](mailto:dsmaccarthy@gmail.com) | Soil fertility, crop modeling, climate change, plant nutrition |
| **Patricia Masikati**  World Agriforestry  Zambia | [P.Masikati@cgiar.org](mailto:P.Masikati@cgiar.org) | Forestry/farming integration tree-crop-livestock modelling, system analyses, tree cover agroforestry, value chain innovation, sustainable agriculture, integrated land management, smallholder farming systems |
| **Pinki Mondal**  University of Delaware  USA | [mondalp@udel.edu](mailto:mondalp@udel.edu) | Sustainability and conservation, forestry, climate change, big data, food security and nutrition, remote sensing, GIS, environmental geography |
| **Michael Joseph Puma**  Earth Institute, Columbia U.  USA | [mjp38@columbia.edu](mailto:mjp38@columbia.edu) | global food security, climate change, modelling, agroecology, evidence-based agriculture, robotics and precision agriculture, hydroclimatology, human migration, socioeconomic systems, non-predictable extremes |
| **Navin Ramankutty**  U. of British Columbia  Canada | [navin.ramankutty@ubc.ca](mailto:navin.ramankutty@ubc.ca) | Sustainable food systems, global data analysis, global modelling, climate change, global environmental change, environmental impacts of agriculture, land use |
| **Roberto Valdivia**  Oregon State University  USA | [Roberto.valdivia@oregonstate.edu](mailto:Roberto.valdivia@oregonstate.edu) | agricultural production systems, Impact assessment, trade-off analysis, impacts of policy and technologies, climate change impacts, adaptation and mitigation. Economics carbon sequestration. developed and developing countries. |
| **Chaoqing Yu**  Tsinghua University  China | [chaoqingyu@yahoo.com](mailto:chaoqingyu@yahoo.com) | Food security, water resources, nitrogen cycle, water pollution, ecosystem services, agroecosystems, modelling |

Forestry

Editors of this section welcome a broad range of basic and applied research related to studies of forests and forestry. Our editors are interested in research related to creating, managing, harvesting, conserving and repairing forests, woodlands, and associated resources, including those from biological, physical, social, political, and managerial perspectives. The Forestry section will consider, for example, studies involving forest technology, inventories and biometrics, agroforestry, fire management, forest health, forests impacts on climate and carbon, recreation and wilderness management. In addition, Editors of this section have particular interest in studies with specific implications for agriculture and food production.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Alexia Stokes**  National Research Institute for Agriculture, Food, & Environment  France | [alexia.stokes@cirad.fr](mailto:alexia.stokes@cirad.fr) | Forestry, natural hazards, erosion, landslides, biophysics, root-soil interactions, carbon, functional traits, disturbance, agroforestry, ecosystem, services, urban forestry, ecological engineering | |
| **Dolors Armenteras**  National University of Columbia  Columbia | [darmenterasp@unal.edu.co](mailto:darmenterasp@unal.edu.co) | Fires, landscape ecology, deforestation, forest fragmentation, Colombian Amazon, landscape ecology, conservation biology | |
| **Yayha Kooch**  Tarbiat Modares University  Iran | [yahya.kooch@yahoo.com](mailto:yahya.kooch@yahoo.com) | Soil ecology, Soil biology, Soil fertility, Biogeochemistry, Pedodiversity, Litter quality, Land use/cover changes, Forestry, Humus forms, Plant and soil, Geostatistics | |
| **Junwei Luan**  International Centre for Bamboo and Rattan (ICBR),  China | [junweiluan@126.com](mailto:junweiluan@126.com) | Forestry, Soil nutrients cycling, Soil organic carbon, Climate change, Ecosystem function, Biodiversity, Plant soil interactions, Greenhouse gas emissions, Forest soil, Ecological process, Rhizosphere, Soil microbes, Biogeochemical cycles | |
| **Anastasia Pantera**  Agricultural University of Athens  Greece | [pantera@aua.gr](mailto:pantera@aua.gr) | Agroforestry, forest soils, forest ecology, silviculture, Forest ecology, ecosystems ecology, climate changes, natural resource management, | |
| **Frederique Reverchon**  Advanced Molecular Studies Network  Mexico | [frederique.reverchon@inecol.mx](mailto:frederique.reverchon@inecol.mx) | Plant-soil-microorganism interactions: rhizospheric microorganisms , mycorrhizae , nitrogen-fixing bacteria. Soil microbial ecology: diversity and function of microbial communities in agricultural and forest soils. | |

Genomics

Editors of this section welcome research articles focused on agricultural genomics, genetics, molecular biology, with emphasis on their applications in agriculture improvement, contributing towards zero hunger and better nutrition. Authors are encouraged to submit original manuscripts providing novel insights and approaches advancing current understanding of the global scientific community on genomics and its applications for agriculture. Innovative ideas on novel genetic methods and resources, including sequencing and genotyping technologies, bioinformatics, computational biology are also welcome that provides better understanding of genomic data analysis and its applications for agriculture.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Rajeev Varshney**  International Crops Research Institute for the Semi-Arid Tropics  India | [R.K.Varshney@CGIAR.ORG](mailto:R.K.Varshney@CGIAR.ORG) | Food security and nutrition, plant science and plant breeding, genomics, genetics, molecular breeding |
| **Noelle Anglin**  International Potato Center  Peru | [n.anglin@cgiar.org](mailto:n.anglin@cgiar.org) | Genomics, Food security and nutrition, plant science and plant breeding, roots and tubors, genomics, genetics, conservation |
| **Jacqueline Batley**  U. of Western Australia  Australia | [jacqueline.batley@uwa.edu.au](mailto:jacqueline.batley@uwa.edu.au) | Genomics, plant pathogen interactions, brassica, population studies, evolutionary genomics, crop genomics, genome sequencing, genetic mapping, GWAS |
| **Sabhyata Bhatia**  National Institute of Plant Genome Research  India | [sabhyatabhatia@nipgr.ac.in](mailto:sabhyatabhatia@nipgr.ac.in) | Structural and functional molecular genetics and genomics, molecular biology and breeding seed and nodule development, NGS technologies |
| **Abhishek Bohra**  ICAR-IIPR Kanpur  India | [abhi.omics@gmail.com](mailto:abhi.omics@gmail.com) | Plant genetics, agronomy, molecular breeding, DNA molecular-marker tools, crop production, drought tolerance |
| **Awais Khan**  Cornell University  USA | [awais.khan@cornell.edu](mailto:awais.khan@cornell.edu) | Plant science and breeding, plant genomics, quantitative genetics, marker-assisted breeding, disease resistance, abiotic stress tolerance, sustainable crop production, food security, plant pathology |
| **Hon-ming Lam**  Chinese U. of HK  China- Hong Kong | [honming@cuhk.edu.hk](mailto:honming@cuhk.edu.hk) | Crop genomics, crop epigenomic, agrobiotechnology, climate-smart agriculture, plant-environment interaction, symbiotic nitrogen fixation |
| **Suk Ha Lee**  Seoul National U.  Korea | [sukhalee@snu.ac.kr](mailto:sukhalee@snu.ac.kr) | Genome assembly data, soybean molecular breeding and physiology, agronomy, biotechnology, crop science |
| **Raluca Mateescu**  University of Florida  USA | [raluca@ufl.edu](mailto:raluca@ufl.edu) | Livestock and animal science, genomics, climate change, food security and nutrition, molecular genetics, meat quality, thermotolerance, internal parasitism, beef, sheep, goat |
| **Zeba Seraj**  University of Dhakar  Bangladesh | [zebai@du.ac.bd](mailto:zebai@du.ac.bd) | Climate Change, genomics, microbiomes, Plant Science & Breeding |
| **Yingjia Shen**  Xiamen University  China | [shenyj@xmu.edu.cn](mailto:shenyj@xmu.edu.cn) | Genomics, big data, plant science and breeding, Sequencing and assembling of genome and transcriptome, Comparative genomics, Xiphophorus Genetic Stock, bioinformatics research. |
| **Catherine Ziyomo**  ILIR – CGIAR  Kenya | [c.ziyomo@cgiar.org](mailto:c.ziyomo@cgiar.org) | plant genetics, agronomy, molecular breeding, DNA molecular-marker tools, crop production, drought tolerance |

Horticulture

Editors of this section welcome manuscripts focused on horticulture sciences ranging from studies of fruits, vegetables, and ornamental plants at small-to-large farming levels in all climates. We encourage submissions on all aspects of horticultural crops from germplasm, genetics, genomics and biotechnology to plant physiology, propagation, crop management and plant interaction with environment and cultivation systems. Editor will evaluate research related to pre-harvest and post-harvest factors that determine fruit sensorial and nutritional quality and welcome cross-disciplinary work related to socio-economic impacts of horticulture in promoting rural development and sustainability of small and urban farming.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Bruno Mezzetti**  Marche Polytechnic U.  Italy | [b.mezzetti@staff.univpm.it](mailto:b.mezzetti@staff.univpm.it) | Horticulture, plant science and breeding, plant biotechnology and biosafety, cultivation systems, sustainability, resilience |
| **Franco Capocasa**  Madrid Polytechnic U.  Italy | [f.capocasa@staff.univpm.it](mailto:f.capocasa@staff.univpm.it) | Plant science & breeding, Food security & nutrition, breeding programs, fruit quality, nursery, rootstock, water management, antioxidant capacity, phenolic compounds |
| **Ibrahim Kahramanoglu**  University of Lefke  Turkey | [ikahramanoglu@eul.edu.tr](mailto:ikahramanoglu@eul.edu.tr) | Postharvest biology/technology/ handling/ physiology, Food science and technology, Fruits' defense mechanism, Food quality and Food safety, Sustainable horticulture, Fruits and vegetables, Precision agriculture |
| **Luca Mazzoni**  Marche Polytechnic U.  Italy | [l.mazzoni@staff.univpm.it](mailto:l.mazzoni@staff.univpm.it) | Nutrition, antioxidants, sensory analysis, flavonoids, fruit quality, polyphenols, phenolic compounds, anthocyanins, micronutrients, human health, vitamin C, folates |
| **Alba Mininni**  University of Basilicata  Italy | [alba.mininni@unibas.it](mailto:alba.mininni@unibas.it) | Horticulture, plant ecophysiology, irrigation and water management, plant nutrition, soil fertility, water reuse, plant and soil microbiome |
| **Lynette Morgan**  Suntec International Hydroponic Consultants  New Zealand | [Suntec92@gmail.com](mailto:Suntec92@gmail.com) | Horticulture, hydroponics, soilless cultivation, nutrient metrics, biowave technology |
| **Maina Mwangi**  Kenyatta University  Kenya | [Maina.mwangi@ku.ac.ke](mailto:Maina.mwangi@ku.ac.ke) | Plant pathology, epidemiology, fungi, bacteria, viruses, vectors, seed health, microbiology, pesticides, biocontrol, IPM |
| **Sonia Osoria**  University of Malaga  Spain | [sosorio@uma.es](mailto:sosorio@uma.es) | Plant Science and breeding, fruit metabolism, plant development, OMICS, metabolomics, transcriptomics, fruit quality, regulation |
| **Bruce Schaffer**  University of Florida  USA | [bas56@ufl.edu](mailto:bas56@ufl.edu) | Ecophysiology, subtropical and tropical fruit crops, leaf gas exchange, sap flow, water relations, flooding, trees, sub/tropical horticultural plants (leaf gas exchange, water relations), insect/plant interactions |
| **Christina Silva**  Portuguese Catholic U.  Portugal | [clsilva@porto.ucp.pt](mailto:clsilva@porto.ucp.pt) | Technology, modelling, food quality, food safety, kinetics, thermal processes, non-thermal processes, predictive microbiology, fruits and vegetables, sustainable food processes |
| **Anita Sønsteby**  Norwegian Institute of Bioeconomy Research  Norway | [Anita.sonsteby@nibio.no](mailto:Anita.sonsteby@nibio.no) | Climate change, horticulture, plant science and breeding, plant physiology, environmental signals and plant development, flowering physiology, plant growth and development, fruit and berry species, fruit quality |
| **Jill Stanley**  N Institute for Plant and Food Research  New Zealand | [Jill.Stanley@plantandfood.co.nz](mailto:Jill.Stanley@plantandfood.co.nz) | Horticulture, perennial crop physiology and productivity, fruit physiology and fruit quality, fruit postharvest physiology, environmental effects on perennial fruit crops, orchard growing systems, precision horticulture, climate change effects on horticultural crops, fruit crop breeding |
| **Jose Vallarino**  University of Málaga  Spain | [vallarino@uma.es](mailto:vallarino@uma.es) | Plant science and breeding, metabolomics, genomics, postharvest, biomarkers, sensory analysis, fruit quality, fruit ripening, breeding, hormones, metabolic profiling, mass spectrometry |

Invasive Species

Editors of this section welcome manuscripts exploring all aspects of biological invasions and have special interest in work that emphasizes economically important species, be those invasive themselves, or the impact of invasive species have on them. The editors encourage submissions of all research investigating biological invasions that threaten biodiversity, ecological functioning, ecosystem services, and food security with no geographical or organismic restrictions. Submissions are encouraged covering studies that focus on quantifying the effect of invasions—biological, financial, social, or beyond—be that modelling of hypothetical situations or documenting impacts of detected invasions.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Gabor Lövei**  Aarhus University  Denmark | [gabor.lovei@agro.au.dk](mailto:gabor.lovei@agro.au.dk) | Agroecology, invasive species, invasion ecology, arthropod conservation, biological control, beneficial arthropods, ground beetles, food webs, community ecology, habitat management, conservation biocontrol. |
| **Rene Eschen**  CABI  Switzerland | [r.eschen@cabi.org](mailto:r.eschen@cabi.org) | Invasive species, agroecology, entomology and pest management, environmental and soil science, forestry, plant pathology, grassland ecology, border biosecurity |
| **Ezequiel Gonzalez**  Institute for Environmental Sciences  Czech Republic | [gonzalez@uni-landau.de](mailto:gonzalez@uni-landau.de) | Entomology and pest management, biological control, ecosystem services, landscape ecology, biodiversity, community ecology, spillover, movement ecology, conservation, non-crop habitats, soybean, predation, parasitism |
| **Philip Hulme**  Lincoln University  New Zealand | [Philip.Hulme@lincoln.ac.nz](mailto:Philip.Hulme@lincoln.ac.nz) | invasive species ecology,conservation and biodiversity ,population ecology,evolutionary biology, biogeography & phylogeography, crop and pasture protection (pests, diseases and weeds) |
| **Balázs Kiss**  Plant Protection Institute, Centre for Agricultural Research  Hungary | [kiss.balazs@agrar.mta.hu](mailto:kiss.balazs@agrar.mta.hu) | Entomology and Pest management, Invasive species, Vectorology (Vectors of plant pathogens), Natural enemies, Experimental entomology,Hemiptera, Araneae, Drosophilidae |
| **Viktor Markó**  Stephen University of Agriculture  Hungary | [marko.viktor@kertk.szie.hu](mailto:marko.viktor@kertk.szie.hu) | Agricultural entomology, pest management in fruit orchards, pests of urban trees, ecosystem services, invasive arthropods |
| **António Soares**  University of the Azores  Portugal | [antonio.oc.soares@uac.pt](mailto:antonio.oc.soares@uac.pt) | Entomology and pest management and invasive species, biological control, ecosystem services |
| **Nian-wan Yang**  Chinese Academy of Agricultural Sciences  China | [yangnianwan@caas.cn](mailto:yangnianwan@caas.cn) | Invasive species, entomology and pest management, big data, insects, invasiveness, biological control, parasitoids |
| **Tania Zaviezo**  Pontifical Catholic U. of Chile  Chile | [tzaviezo@uc.cl](mailto:tzaviezo@uc.cl) | Entomology and pest management, biological control, parasitoids, coccinellids, landscape, pheromones, fruit crops pests |

Microbiomes

Editors of this section welcome a broad range of research related to studies of microbiotic components and communities in humans, animals, plants, soils, air, and water. We will consider studies of microbiomes that are natural or constructed, and from a broad perspective of microbiomes across far-ranging environmental conditions to focused studies of component microorganisms. Studies might include, for example, location- specific microbiome analyses, bioremediation, geomicrobiology, microbial interaction among plants and crops, extreme environment microbiology, microbiomes associate with plant or animal health, or astrobiology. Editors of this section have particular interest in studies with specific implications for agriculture and food production.

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| **SECTION EDITOR**  **Leo van Overbeek**  WUR Plant Research International  Netherlands | [leo.vanoverbeek@wur.nl](mailto:leo.vanoverbeek@wur.nl) | Microbial ecology, plant-microbial interactions, microbiomes, endophytes, ecology, molecular biology, soil biology, microorganisms, ecogenomics, microbiology, food safety |
| **Fiona Brennan**  Irish Agriculture and Food Development Authority  Ireland | [Fiona.Brennan@teagasc.ie](mailto:Fiona.Brennan@teagasc.ie) | Microbiomes, Environmental and soil science. Microbial ecology, Agricultural management, Soil and plant microbiomes, Plant-Soil-Microbe interactions, Nutrient cycling, Greenhouse Gases, Enteropathogens, E. coli |
| **Lise Korsten**  University of Pretoria  South Africa | [Lise.korsten@up.ac.za](mailto:Lise.korsten@up.ac.za) | Drug resistance Microbial loads, Escherichia coli, fresh produce, food storage, food safety, bacteria community dynamics |
| **Jose Macia-Vicente**  WUR Plant Research International  Netherlands | [jose.maciavicente@wur.nl](mailto:jose.maciavicente@wur.nl) | Microbiomes, fungi, endophytes, roots, symbiosis, ecology, high-throughput sequencing, nematophagous fungi, entomopathogenic fungi, mycorrhizas |
| **Michalis Omirou**  Agricultural Research Intitute  Cyprus | [m.omirou@cyi.ac.cy](mailto:m.omirou@cyi.ac.cy) | Plant/microbiome interactions, terrestrial molecular microbial ecology, climate change quantitative PCR and next-generation sequencing, analytical chemistry (LC-MS ion trap) bioinformatics |
| **Matt Ryan**  CABI  UK | [m.ryan@cabi.org](mailto:m.ryan@cabi.org) | Microbiome, plant pathology, cryopreservation, soil biodiversity, phytobiomes, culture collections. biobanks, cbd, nagoya protocol, mycology, conservation |
| **Joana Salles**  University of Groningen  Netherlands | [j.falcao.salles@rug.nl](mailto:j.falcao.salles@rug.nl) | Microbial diversity, community assembly, adaptation, functional diversity, ecosystem functioning |
| **Adam Schikora**  Julius Kühn Institute (JKI) Institute for Epidemiology and Pathogen Diagnostics Germany | [adam.schikora@julius-kuehn.de](mailto:adam.schikora@julius-kuehn.de) | Plant pathology, plant immunity, induced resistance, ahl-priming, quorum sensing, human pathogens, plant-pathogen interactions, salmonella |

Plant Pathology

Editors of this section welcome all research on plant diseases and pathogenic agents in agricultural and horticultural crops, forest trees, and natural plant communities including studies of fungi, bacteria and phytoplasmas, viruses and viroids, microparasites, parasitic plants, and nematodes. Editors encourage submissions in all areas of plant pathology from molecular interactions between plants, pathogens, other microbiota and vectors, to the epidemiology and ecology of disease in field populations and diverse landscapes. We are particularly interested in work emphasizing multidisciplinary links with plant protection, plant breeding, crop management, food security, soil science, and environmental health more generally.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Michael Jeger**  Imperial College London  UK | [m.jeger@imperial.ac.uk](mailto:m.jeger@imperial.ac.uk) | Plant pathology, plant disease epidemiology and modelling, plant trade networks, modelling biological control of foliar plant pathogens, ecology of disease in grasslands & declines and complex diseases of forest trees, plant virus epidemics, vector transmission biology, and plant health risk assessment, quantitative plant disease epidemiology, especially in relation to plant viruses, tree diseases, trade networks, and plant health policy. |
| **Robert Beresford**  New Zealand Institute for Plant & Food Research Ltd  New Zealand | [Robert.Beresford@plantandfood.co.nz](mailto:Robert.Beresford@plantandfood.co.nz) | Plant pathology, epidemiology, disease modelling, climate and weather, climate change, disease management, fungicide resistance, climate change, horticulture, forestry |
| **Clive Bock**  US Department of Agriculture  USA | [clive.bock@ars.usda.gov](mailto:clive.bock@ars.usda.gov) | Plant pathology, epidemiology, population biology, integrated disease management, pcr, plant protection, plant pathology, crop protection, phytopathology, fungal biology, disease resistance, fungal diversity, mycotoxins, molecular mycology, fungal genetics, agricultural chemicals, forest pathology, aflatoxin, phytopathogenic fungi, sorghum, fungicides, glucosinolates |
| **Nathan Brown**  Woodland Heritage  UK | [nathan@woodlandheritage.org](mailto:nathan@woodlandheritage.org) | Forestry, plant pathology, epidemiology, sustainable woodland management ,disease surveillance, citizen science, surveillance and management of threats to ash treescapes, Acute Oak Decline, arboriculture landscape design |
| **Adrian Fox**  Fera Science Ltd  UK | [Adrian.Fox@fera.co.uk](mailto:Adrian.Fox@fera.co.uk) | Plant pathology, plant virology, plant health, regulation, diagnostics, biosecurity, novel plant viruses, virus epidemiology, virus discovery, virus characterisation |
| **Vladimiro Guarnaccia**  U. of Torino  Italy | [Vladimiro.guarnaccia@unito.it](mailto:Vladimiro.guarnaccia@unito.it) | Plant pathology, fungal diseases, phylogeny, characterization, emerging pathogens, diagnostic, fungicide resistance, management, stress factors |
| **Adrian Newton**  James Hutton Institute  UK | [Adrian.Newton@hutton.ac.uk](mailto:Adrian.Newton@hutton.ac.uk) | Cereal pathology, agroecology, crop diversity, conservation tillage, sustainable arable farming systems, crop pathology and climate change |
| **Antonio Vicent**  Valencian Research Institute  Spain | [vicent\_antciv@gva.es](mailto:vicent_antciv@gva.es) | Plant pathology, modelling, epidemiology, risk assessment, disease management, fungal diseases, bacterial diseases, decision support systems, fungicides, exotic plant pathogens, surveillance, fruit crops |
| **Xiangming Xu**  NIAB East Malling Research  UK | [Xiangming.Xu@emr.ac.uk](mailto:Xiangming.Xu@emr.ac.uk) | Population biology, plant disease epidemiology, plant disease management, disease biocontrol, microbial ecology, statistical modelling |
| **Jonathan Yuen**  Swedish University of Agricultural Sciences  Sweden | [Jonathan.Yuen@slu.se](mailto:Jonathan.Yuen@slu.se) | Plant pathology, plant breeding, food security, modelling, plant disease epidemiology, statistics |
| **Silvia Restrepo** | [srestrep@uniandes.edu.co](mailto:srestrep@uniandes.edu.co) |  |

Plant Science and Breeding

Editors of this section welcome research on plant physiology, genetics, molecular biology, biochemistry and biotechnology, particularly with relevance to crop improvement for yield, biotic and abiotic stress tolerance, nutritional quality, processing properties and food safety. Editors encourage submissions in all areas in plant genetics, including the interaction of plant genetics with the environment, and how that influences the development of best practices for crop management and the development of crops that are resilient to climate change.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Nigel Halford**  Rothamsted Research  UK | [nigel.halford@rothamsted.ac.uk](mailto:nigel.halford@rothamsted.ac.uk) | Crop science, plant science, plant breeding, food security, food safety, plant physiology, abiotic stress, metabolic regulation, plant biotechnology, genetic modification and gene editing |
| **Jesus Vicente Carbajosa**  Madrid Technical U.  Spain | [jesus.vicente@upm.es](mailto:jesus.vicente@upm.es) | Plant molecular biology, seed development, abiotic stress, gene networks, nitrogen, plant-fungal interactions |
| **Patricia Coello**  National Autonomous U. of Mexico  Mexico | [pcoello@unam.mx](mailto:pcoello@unam.mx) | Plant science and breeding. phosphorus deficiency responses, plant signal transduction, plant protein kinases and protein phosphatases, carbon metabolism, abiotic stress responses |
| **Antonio Figueira**  U. of Sao Paulo  Brazil | [figueira@cena.usp.br](mailto:figueira@cena.usp.br) | Plant science and breeding, plant pathology, entomology and pest management, plant molecular biology, plant-pathogen interaction, RNA interference, plant genetic transformation, tropical plants, Theobroma, sugarcane |
| **Tran Dang Khanh**  Agricultural Genetics Institute  Vietnam | [tdkhanh@vaas.vn](mailto:tdkhanh@vaas.vn) | Plant Science, molecular breeding, plant protection, weed science, allelopathy, allelochemical, natural product, genetic diversity, biological activity, genetic and breeding, invasive plants, horticulture |
| **Chenghong Liu**  Shanghai Academy of Agricultural Sciences  China | [liuchenghong@saas.sh.cn](mailto:liuchenghong@saas.sh.cn) | Plant science and breeding, genetic improvement, agronomic traits, abiotic stresses, gene expression, cell culture, mutation, haploids, microspores, barley |
| **Chris Ojiewo**  ICRISAT  Kenya | [C.Ojiewo@cgiar.org](mailto:C.Ojiewo@cgiar.org) | Seed breeding, legumes, seed systems, integrated genomics, crop nutrition improvement |
| **Penna Suprasanna**  Bhabha Atomic Research Centre  India | [penna888@yahoo.com](mailto:penna888@yahoo.com) | Agricultural biotechnology, plant genomics, plant tissue culture, plant stress physiology, mutation breeding, halophytes, phytoremediation, bioregulators |
| **Gaurav Zinta**  CSIR-Institute of Himalayan Bioresource Technology  India | [gzinta@gmail.com](mailto:gzinta@gmail.com) | Climate Change Biology, Ecophysiology, Molecular Plant Biology, Genomics and Epigenomics, Chemical Genetics |

Precision Agriculture, Robotics and Technology

Editors of this section welcome manuscripts addressing the theoretical, technical and application issues of digital or precision agriculture. We encourage submissions of original study on a broad range of relevant topics including data sensing, collecting, processing, fusion, mining and services. We are particularly interested in those studies that develops new technologies such as UAV, IOT, Artificial Intelligence, Blockchain, Robotics, and demonstrates their applications in agriculture. We also encourage the study providing applicable and low-cost solutions for small households’ farming in developing countries for enhancing food security and poverty reduction.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Wenbin Wu**  Chinese Academy of Agricultural Sciences  China | [wuwenbin@caas.cn](mailto:wuwenbin@caas.cn) | Precision agriculture and robotics, big data, climate change, land use change, remote sensing, digital farming and orchard, crop mapping and monitoring |
| **Sonoko Bellingrath-Kimura**  Leibniz Center for Agricultural Landscape Research  Germany | [Sonoko.Bellingrath-Kimura@zalf.de](mailto:Sonoko.Bellingrath-Kimura@zalf.de) | Agronomy, Crop Science, Cropping systems, Decision support system, Ecosystem services, Legumes, Material, Nutrient and Nitrogen cycle, New field arrangement, Nitrogen fixation , Soil fertility, |
| **Tao Cheng**  Nanjing Agricultural U.  China | [tcheng@njau.edu.cn](mailto:tcheng@njau.edu.cn) | Robotics and precision agriculture, big data and modelling, crop management, crop monitoring, food security, data-model integration machine learning, plant phenotyping, productivity prediction, remote sensing, , unmanned aerial vehicle, vegetation mapping |
| **Wei Guo**  Institute for Sustainable Agro-ecosystem Services  U. of Tokoyo  Japan | [guowei@g.ecc.u-tokyo.ac.jp](mailto:guowei@g.ecc.u-tokyo.ac.jp) | Plant Phenotyping, image analysing, machine learning, deep learning, 3D reconstruction, UAV, proximal sensing for agriculture, precision agriculture |
| **Wenjiang Huang**  Institute of Remote Sensing and Digital Each, CAAS  China | [huangwj@aircas.ac.cn](mailto:huangwj@aircas.ac.cn) | Remote sensing, GIS, variate rate fertilizer, water variate irrigation management, entomology and pest management and monitoring, disease monitoring, grass, forestry, food security and nutrition, crop distribution, crop growth monitoring, crop nitrogen content, crop leaf index climate change, soil moisture and nutrition |
| **Dominik R. Klauser**  Syngenta Foundation  Switzerland | [dominik.klauser@syngenta.com](mailto:dominik.klauser@syngenta.com) | Plant pathology, sustainability and conservation, applied plant biology, technology transfer, field research/trials, applied research, agronomy, entomology and pest management |
| **Michael Alan Reeve**  CABI  UK | [m.reeve@cabi.org](mailto:m.reeve@cabi.org) | DNA template preparation, sequencing enzymology, magnetic beads, assay design, MALDI-TOF MS, species differentiation by mass spectroscopy |
| **Beatrice Tarimo**  Ardhi University | [betarimo@gmail.com](mailto:betarimo@gmail.com) | Agent-based models, climate change adaptation, community participation/engagement, disturbance, GIS, land use, remote sensing, smallholder agriculture, woodland management |
| **Yang Li**  Shihezi University | [liyang328@shzu.edu.cn](mailto:liyang328@shzu.edu.cn) | Agricultural electrification and automation, image processing |
| **Adolph Nyamugama** | [NyamugamaA@arc.agric.za](mailto:NyamugamaA@arc.agric.za) |  |

Social Sciences

Editors of this section welcome manuscripts exploring the socio-cultural, economic and behavioural dimensions associated with agricultural and bioscience innovations. We encourage work examining how innovations in global food security are mediated by social and institutional settings in developed and developing country, including their development, dissemination, adoption, and impact. We are interested in analyses that bring together diverse stakeholder perspectives and that inform policy and regulatory regimes for agricultural development. This section provides economic and social science perspectives for developing strategies for sustainable agriculture that address the global challenges of climate and environmental change and poverty.

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| **Editor Name** | **Email** | **Areas of Expertise** |
| **SECTION EDITOR**  **Chittur Srinivasan**  University of Reading  UK | [c.s.srinivasan@reading.ac.uk](mailto:c.s.srinivasan@reading.ac.uk) | Diet and nutrition transitions, agriculture-nutrition linkages, agricultural technology adoption, intellectual property rights in agriculture, genetic resource exchange and policies |
| **Robyn Alders**  Australian National U.  Australia | [robyn.alders@anu.edu.au](mailto:robyn.alders@anu.edu.au) | Sustainable diets, sustainable food systems, household food and nutrition security, biodiversity, wildlife conservation, regenerative/agroecological agriculture, food safety |
| **Jeffrey Alwang**  University of Virginiat  USA | [alwangj@vt.edu](mailto:alwangj@vt.edu) | Economics, agricultural development, poverty reduction, conservation agriculture, integrated pest management, technology adoption, impact assessment |
| **Rosalind Cornforth**  University of Reading  UK | [r.j.cornforth@reading.ac.uk](mailto:r.j.cornforth@reading.ac.uk) | Climate change, hydroclimatic variability in Africa, early warning systems, adaptation planning, climate resilient and sustainable livelihoods, climate services, climate information - visualization and use |
| **Monica Kansiime**  CABI  Kenya | [M.Kansiime@cabi.org](mailto:M.Kansiime@cabi.org) | Climate change, food security and nutrition, social sciences, adoption and impact studies, agricultural economics, value chains. market systems, seed systems, community, participation/engagement, development communication, extension |
| **Mariella Marzano**  Forest Research  UK | [Mariella.marzano@forestresearch.gov.uk](mailto:Mariella.marzano@forestresearch.gov.uk) | Social sciences, invasive species, forestry anthropology, social forestry, interdisciplinarity, invasive species management, risk communication, behaviours research, evaluation |
| **Peter May**  Federal Rural U. of Rio de Janeiro  Brazil | [peterhmay@gmail.com](mailto:peterhmay@gmail.com) | Social sciences, economics, natural resource management, sustainable development, resource economics, agribusiness and forest product value chains |
| **Giuseppe Nocella**  University of Reading  UK | [g.nocella@reading.ac.uk](mailto:g.nocella@reading.ac.uk) | Consumer demand and behaviour, farmer behaviour, attitudes, contingent valuation, willingness to pay for new products/technology, expectancy value and fear appeal models, food, food safety and nutrition policy |
| **Henny Osbahr**  University of Reading  UK | [h.osbahr@reading.ac.uk](mailto:h.osbahr@reading.ac.uk) | Food Security and Development, Addressing Poverty and Inequality, International Development, microfinance, women, rural livelihoods, behaviour change |
| **David Rose**  University of Reading  UK | [d.c.rose@reading.ac.uk](mailto:d.c.rose@reading.ac.uk) | Technology, social sciences, adoption, knowledge exchange, behavioural change, Robotics and precision agriculture, evidence-based agriculture (policy design and implementation |
| **Melinda Smale**  University of Minnesota  USA | [msmale@msu.edu](mailto:msmale@msu.edu) | Food security and nutrition, social sciences, farm input adoption, subsidies, GM crops, genetic resources, agricultural biodiversity, seed systems |
| **Justice Tambo**  CABI  Switzerland | [j.tambo@cabi.org](mailto:j.tambo@cabi.org) | Social sciences, impact assessment, food security and nutrition, economics of pest management, applied micro-econometrics, adoption of agricultural technologies, climate change adaptation |

Primary Expertise Key Search Terms

|  |  |  |
| --- | --- | --- |
| 3d reconstruction | **bacteria** | cell culture |
| **abiotic stress** | bacterial diseases | cereal pathology |
| abiotic stress responses | barley | characterization |
| acute oak decline | bee health | chemical control |
| adaptation | beef | chemical genetics |
| adaptation strategies | beef cattle | child malnutrition |
| addressing poverty inequality | behaviour | children’s health |
| adoption impact studies | behaviour change | chromatin |
| adoption of agricultural technologies | behaviour ecological manipulation | citizen science |
| aerial systems | behavioural change) | citrus pest management |
| aflatoxin | behavioural ecology | clean & green ethical animal production |
| African climate | behavioural experiments | clean development mechanism |
| agent-based models | behaviours research | climate change |
| agents | arthropods | climate change adaptation |
| agricultural automation | big data | climate change biology |
| agricultural biodiversity | big data & modelling | climate change effects on horticultural crops |
| agricultural chemicals | biobanks | climate change impact |
| agricultural development | biochemistry | climate change impacts |
| agricultural economics | biocontrol | climate change mitigation |
| agricultural entomology | biocontrol agents | climate dynamics |
| agricultural insect pests | biocontrol pesticides | climate information - visualization use |
| agricultural policy | biodiversity | climate policy |
| agricultural systems modelling | bioecology | climate risk |
| agricultural technology adoption | biofertilizers | climate services |
| agricultural trade the environment | biofilms | climate-smart agriculture |
| agriculture | biofortification | coccinellids |
| agriculture-nutrition linkages | biogeochemistry | community ecology |
| agrobiotechnology | biogeography | community participation/engagement |
| agroecology | bioinformatics | comparative genomics |
| agroecosystems | biological control | competition |
| agroforestry | biological invasions | composts |
| systems modelling | biomarkers | conservation |
| agronomic traits | biopesticides | conservation agriculture |
| agronomy | biophysics | conservation biocontrol |
| ahl-priming | biosafety | conservation biology |
| air pollution | biosecurity | conservation ecology |
| alien invasive plant species | biotechnology | conservation tillage |
| amino acid | border biosecurity | consumer behaviour |
| animal breeding genetics | botanicals | consumer demand |
| animal communication | bovine reproductive physiology | contingent valuation |
| animal models | brain development | cost-benefit analysis |
| animal production | brassica | cover crops |
| anthocyanins | breeding | crop distribution |
| antioxidant capacity | breeding programs | crop diversification |
| antioxidants | breeding seed | crop diversity |
| applied climatology | breeding selection methods | crop epigenomic |
| applied micro-econometrics | broiler chicken | crop genomics |
| applied plant biology | bt | crop leaf index climate change |
| applied research | **capacity building** | crop management |
| Araneae | carbon | crop mapping |
| area-wide occurrence regularity | carbon emission | crop monitoring |
| arthropod conservation | carbon metabolism | crop nitrogen content |
| ash treescapes | carbon sequestration | crop pathology climate change |
| assay design | cassava viruses | crop physiology |
| assessment | cattle | crop protection |
| attitudes | cbd | crop science |

Primary Expertise Key Search Terms – Continued2

|  |  |  |
| --- | --- | --- |
| cropping systems | environmental science | fruit crop pests |
| cryopreservation | environmental signals plant development | fruit crops |
| cultivation systems | environmental soil science | fruit defense mechanism |
| cultural approaches for virus & vector management. | environmental sustainability. | fruit flies |
| culture collections | epidemiology | fruit metabolism |
| curriculum development | epigenetics | fruit physiology |
| cyanobacteria | epigenomics | fruit postharvest physiology |
| **dairy cattle** | erosion | fruit quality |
| data-based modelling | ethics | fruit ripening |
| data-model integration | ethnoecology | fruits |
| decision support models for disease management | evaluation | functional traits |
| decision support systems | evidence synthesis methodologies | fungal & bacterial plant pathogens |
| deep learning | evidence-based agriculture | fungal biology |
| development communication | evolution | fungal diseases |
| developmental biology | evolutionary genomics | fungal diversity |
| diagnostics | exotic plant pathogens | fungal genetics |
| diapause | expectancy value | fungi |
| diet nutrition transitions | experimental entomology | fungicide resistance |
| digital farming orchard | extension | fungicides |
| disease biocontrol | **factors determing fruit quality** | future farming systems |
| disease management | family agriculture | **gene editing** |
| disease monitoring | farm input adoption | gene expression |
| disease resistance | farmer behaviour | gene networks |
| disturbance | farmers & policy-maker engagement | genetic improvement |
| diversity | fear appeal models | genetic mapping |
| dna template preparation | feed additives | genetic modification |
| drosophilidae | fertility | genetic resource exchange policies |
| **early warning systems** | fertilizer | genetic resources |
| earth system science | field epidemiology | genetics |
| ecogenomics | field research/trials | genome assembly data |
| ecohydrology | field surveillance strategies | genome editing |
| ecological engineering | financing of conservation units | genome sequencing |
| ecological impacts of climate change | flavonoids | genome transcriptome |
| ecological zoning | flooding | genomics |
| ecology | flowering physiology | genomics-assisted breeding |
| ecology of disease | folates | genotipic phenotipic characterization |
| economic development | foliar plant pathogens | geochemistry |
| economics | food | germplasm resources |
| economics of pest management | food insecurity | GIS |
| ecophysiology | food quality | global caron budget |
| ecosystem services | food safety | global data analysis |
| ecosystems | food science | global environmental change |
| ecotoxicology | food security | global food security |
| egg parasitoids | food security & development | global gridded crop model |
| embryology | food security & nutrition | global modelling |
| emerging pathogens | food technology | glucosinolates |
| endocrinology | food webs | GM crops |
| endophytes | foraging | goat |
| energy policy | forecasting & predictive modelling | grain producing systems |
| entomology | forecasts | grapevine pest management |
| entomology & pest management | forest pathology | grass |
| entomopathogenic fungi | forest water resources | grassland ecology |
| environmental effects on perennial fruit crops | forestry | grazing management |
| environmental geography | forestry & anthropology | greenhouse gases |
| environmental impacts of agriculture | fruit berry species | ground beetles |
| environmental physiology | fruit crop breeding | ground-based crop sensing |

Primary Expertise Key Search Terms – Continued3

|  |  |  |
| --- | --- | --- |
| gwas | **kinetics** | molecular plant biology |
| **habitat diversification** | knowledge exchange | movement ecology |
| habitat management | **l-atmosphere interactions** | multi-trophic interactions |
| haploids | ladybirds | mutagenesis |
| health | land slides | mutation |
| heavy metal pollution | land use | mycology |
| hemiptera | landscape design | mycorrhizal symbionts |
| high-throughput sequencing | landscape ecology | mycorrhizas |
| hormesis | landscapes | mycotoxins |
| hormones | leading innovator in knowledge exchange | **Nagoya protocol** |
| horticulture | leaf gas exchange | native biocontrol |
| host specificity of biocontrol agent | legumes | native crops |
| human health | life cycle assessments | natural enemies |
| human migration | life history traits evolution | natural hazards |
| human pathogens | livelihoods decision-making | nature conservation |
| hydroclimatic variability | **machine learning** | nature-based solutions |
| hydroclimatology | macroecology | nematophagous fungi |
| hydrological cycle | magnetic beads | networking advocacy in ulti-cultural settings |
| hydrological hazards | maize | neuroscience |
| hydroponics | malaria | new field arrangement |
| **image analysis** | maldi-tof ms | ngs technologies |
| immunology | managing large-scale interdisciplinary | nitrogen |
| impact assessment | marker-assisted breeding | nitrogen behavior in deep vadose zone |
| in planta | market systems | nitrogen cycle |
| indigenous breeds | mass spectrometry | nitrogen fixation |
| induced resistance | mating disruption | nitrogen pollution |
| industrial ecology | mealybugs | nitrogen reservoir |
| insect chemical ecology | meat quality | nodule development |
| insect molecular biology | mechanism of chemical communication | non-crop habitats |
| insect movement dispersal | Mediterranean agricultural crops | non-predictable extremes |
| insect pests | meta-analysis | non-thermal processes |
| insect plant interaction | metabolic endocrinology | non-wood forest products |
| insect rearing | metabolic profiling | novel plant viruses |
| insects | metabolic regulation | nursery |
| integrated assessments | metabolomics | nutrient cycle |
| integrated disease management | methane | nutrient mobilization |
| integrated land management | methane mitigation | nutrition |
| integrated pest management | microbial ecology | nutrition policy |
| integrated pest management (ipm) | microbiology | **omics** |
| integration of genomic innovations in crop | microbiomes | one health |
| intellectual property rights | microfinance | oocyte |
| interactions | micronutrient enrichment | orchard growing systems |
| interdisciplinarity | micronutrients | orchards |
| internal parasitism | microorganisms | organic agriculture |
| international development | microspores | **parasitism** |
| invasion ecology | migration | parasitoids |
| invasive arthropod species | milk production | payment for ecosystem services |
| invasive arthropods | mitigation | PCR |
| invasive species | mobile phone-based surveys | pediatric nutrition |
| invasive species management | modelling | perileucoptera coffeella |
| invertebrate ecology | molecular biology | pest management |
| invitro culture | molecular breeding | pest management in fruit |
| IPM | molecular cell biology | pest protection |
| IPM key technology | molecular genetics | pesticide toxicology |
| irrigation water management | molecular microorganism genetics | pesticides |
| isotope tracing | molecular mycology | pests of urban trees |

Primary Expertise Key Search Terms – Continued4

|  |  |  |
| --- | --- | --- |
| phenolic compounds | population biology | seed health |
| phenology | population ecology | seed systems |
| pheromones | population genetics | selectivity & insecticide resistance |
| pheromones reproduction | population studies | semiochemicals |
| phosphorus deficiency responses | postharvest | sensorial nutritional quality |
| phyllosphere microbiomes | postharvest biology/technology/ hling/ physiology | sensory analysis |
| phylogeny | postharvest genomics | sequence stratigraphy |
| phylogeography | poverty reduction | sequencing |
| physiology | precision agriculture | sequencing enzymology |
| phytobiomes | precision horticulture | services |
| phytopathogenic fungi | predation | sheep |
| phytopathology | predatory beetles | small ruminants |
| phytosociology | predictive microbiology | small stock |
| pig | production machinery processes | smallholder agriculture |
| plant biotechnology | productivity prediction | smallholder farming systems |
| plant breeding | protein phosphatases | smallholders |
| plant development | proximal sensing for agriculture | snp |
| plant disease epidemiology | public health | social behaviour |
| plant disease epidemiology modelling | push-pull strategies | social forestry |
| plant disease management | **QTL** | social insects |
| plant ecophysiology | quantitative genetics | social sciences |
| plant genetic transformation | quantitative plant disease epidemiology | socio-environmental certification |
| plant genetics | quantitative trait loci | socioeconomic systems |
| plant genomics | quorum sensing | soil biodiversity |
| plant growth | **rainfall monitoring** | soil biology |
| plant health | reducing emissions from deforestation & forest degradation (redd +) | soil biota |
| plant health policy | regulation | soil fertility |
| plant health risk assessment | remote data | soil health |
| plant molecular biology | remote sensing | soil moisture |
| plant nutrition | reproduction | soil science |
| plant pathogen interactions | reproductive biology | soil-less media |
| plant pathology | reproductive physiology | soilless cultivation |
| plant pathology- epidemiology | reproductive technologies | sorghum |
| plant pathology- immunity | resilience | south American crops |
| plant phenotyping | restoration | soybean |
| plant physiology | restricted maximum likelihood | spatial econometrics |
| plant protection | rhizosphere | species differentiation by mass spectroscopy |
| plant protein kinases | rice | spillover |
| plant science & breeding | ripening | statistical modelling |
| plant science & plant breeding | risk assessment | statistics |
| plant signal transduction | risk communication | sterile insect technique |
| plant trade networks | RNA interference | stress factors |
| plant virology | rnai | sub/tropical horticultural plants (leaf gas exchange |
| plant virus epidemics | robotics | sublethal effects |
| plant viruses | root-soil | subsidies |
| plant-animal interactions | roots | subtropical tropical fruit crops |
| plant-environment interaction | rootstock | succession |
| plant-fungal interactions | rural livelihoods | sugarcane |
| plant-herbivore networks | **salinity** | surveillance |
| plant-insect interactions | salinization processes | sustainability |
| plant-microbe interactions | salmonella | sustainability indicators |
| plant-pathogen interactions | sap flow | sustainability science |
| planting breeding cycle mode | scale insects | sustainable agriculture |
| policy | scelionidae trichogrammatidae | sustainable arable farming systems |
| politics of natural resources | seasonal climate | sustainable control of insect pests in agro-ecosystems |
| polyphenols | seed development | sustainable crop production |

Primary Expertise Key Search Terms – Continued5

|  |  |
| --- | --- |
| sustainable development | vitamin c |
| sustainable diets | voluntary forest carbon market |
| sustainable food processes | **water cycling in agricultural systems** |
| sustainable food systems | water management |
| sustainable horticulture | water pollution |
| symbiosis | water relations |
| symbiotic nitrogen fixation | water resources |
| system biology | water reuse |
| systematic review | water variate irrigation management |
| **technological changes** | watershed management |
| technology | weather |
| technology adoption | weed diseases |
| technology transfer | wheat aphid resistance |
| theobroma | wheat insect pests |
| theoretical ecology | wild rice |
| thermal biology | wildlife conservation |
| thermal processes | willingness to pay for new products/technology |
| thermotolerance | winter chill |
| thrips | women |
| tolerance | women’s health |
| trade networks | woodland management |
| trade-off analysis | world food production |
| traditional polycultures | **zoology** |
| training | zoophytophagous predators |
| transcriptomics |  |
| transformation |  |
| translational genomics for agriculture |  |
| tree diseases |  |
| trees |  |
| tropical ecology |  |
| tropical plants |  |
| tuber roots |  |
| tuta absoluta |  |
| **unmanned aerial vehicle** |  |
| urban forestry |  |
| urban peri-urban transdisciplinary research |  |
| **value chain analysis** |  |
| value chains |  |
| valuing biodiversity |  |
| variate rate fertilizer |  |
| vector control of infectious diseases |  |
| vector molecular cassava viruses |  |
| vector population dynamics/bionomics |  |
| vector transmission biology |  |
| vector-natural enemy interactions |  |
| vectorology |  |
| vectors |  |
| vegetables |  |
| vegetation management |  |
| vegetation mapping |  |
| vineyards |  |
| virus characterisation |  |
| virus discovery |  |
| virus epidemiology |  |
| virus-vector interactions |  |
| viruses |  |