

Scientists call for ambitious Sustainable Use of Pesticides Regulation

The heavy use of pesticides in agriculture is strongly linked to declines in insects, birds, biodiversity in terrestrial and aquatic systems and detrimental impacts on global public health. For that reason, the global reduction of pesticides use is one of the key negotiation points during the UN Biodiversity Summit (COP15) in Montréal. The European Commission has taken a leading role in efforts to curb pesticides by adopting a 50% reduction target of use and risks by 2030 in its [Farm to Fork Strategy](#). Earlier this year, the European Commission proposed [a Sustainable Use of Pesticides Regulation](#) to enshrine this target into legislation, as well as to mandate Member States to invest in Integrated Pest Management and ban pesticides from sensitive areas.

Given the urgent need for reduction of pesticide impacts, it is worrying to observe that a number of Member State governments and Members of the European Parliament have recently called for the delay and/or watering down of the new pesticides regulation. Citing [questionable](#) ‘food security’ and ‘resilience’ concerns, Member States have [called](#) for an additional impact assessment to the thorough assessment performed by the Commission before the outbreak of the Ukraine war. As members of the scientific community, we express our deep concern.

We stress that:

- The undelayed realisation of the Farm to Fork and Biodiversity Strategies’ pesticides reduction objectives remains of utmost importance to stop and reverse the decline of biodiversity.
- The “[Potsdam Statement](#)” of earlier this year remains unreservedly valid. This statement, signed by 600+ researchers, stressed the need to take demand-side actions in order to future-proof the EU’s food system, as such mitigating pressures on global biodiversity and sustaining the foundation for long-term food security.
- The gain in knowledge of the required additions to the thorough Impact Assessment performed by the European Commission is highly questionable, as the long-term challenges facing the EU food system and state of biodiversity have not changed since the outbreak of the war in Ukraine.
- Lack of binding targets is exactly the reason why investments in Integrated Pest Management have [lagged](#) behind since the adoption of the 2009 Pesticides Directive. The adoption of binding targets and a reallocation of public resources is [expected](#) to [accelerate innovation](#) of non-hazardous pesticide alternatives.
- A food system transition is non-linear and disruptive by definition. While current modes of impact assessment may provide insights into short-term market impacts, they are [incapable](#) of projecting longer-term innovation and disruption, which the Green Deal aims for.

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232. Prof. Dr. Ir. Peter H. Verburg, Professor of Environmental Geography, Institute for Environmental Studies, Vrije Universiteit Amsterdam, the Netherlands.
233. Dr. Maarten Schrama, Assistant Professor, Department of Environmental Biology, Institute of Environmental Sciences, Leiden University, The Netherlands.
234. Dr. Adrian Muller, Dept. of Food System Sciences, Research Institute of Organic Agriculture (FiBL), Switzerland
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238. Dr Ulrich Loening, retired Reader in Molecular Biology and Director of the Centre for Human Ecology, University of Edinburgh
239. Dr. Doreen Babin, Julius Kühn Institute, Institute for Epidemiology and Pathogen Diagnostics, Braunschweig, Germany
240. Assoc.-Prof. PD Dipl.-Ing. Dr. med. Hans-Peter Hutter, Department of Environmental Health, Center for Public Health, Medical University Vienna, Austria.
241. Prof. Dr.. Gloria I. Guzmán. Professor of Agroecology and Organic Farming. Agroecosystems History Laboratory. Pablo de Olavide University (Spain).
242. Dr. Bartosz Bartkowski, Department of Economics, Helmholtz Centre for Environmental Research - UFZ, Leipzig, Germany.
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245. Dr. Stefan Möckel, senior scientist at the Helmholtz Centre for Environmental Research UFZ Leipzig. Lead author of the study “Pesticide tax in the EU – Various levy concepts and their impact on pesticide reduction”, 2021, <https://www.ufz.de/index.php?en=36458>
246. Prof. dr. ir. Cees J.N. Buisman, Executive Board Wetsus and professor Biological Recovery Wageningen..
247. Dr. Fabrice Martin-Laurent, Head of Agroécologie department, INRAE Bourgogne Franche-Comté, Dijon, France.
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281. Dr. Tomaso Ferrando, Research Professor, University of Antwerp Faculty of Law, Belgium
282. Prof Erik Millstone, Emeritus Professor of Science Policy, University of Sussex, England
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338. Prof. Dr. Violette Geissen, Wageningen University, Netherlands
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466. Prof. Dr. Tobias Plieninger, Department of Agricultural Economics and Rural Development, University of Göttingen, Germany; Faculty of Organic Agricultural Sciences, University of Kassel, Germany.
467. Carin Ström, Swedish Beekeeping Association, Sweden
468. Ivan Murray Mas, Associate Professor, Department of Geography at the University of the Balearic Islands, Spain.

469. Angela Schwarm, Associate Professor, Department of Animal and Aquacultural Sciences, Norwegian University of Life Sciences, Norway.
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474. Dr. Laurence Gaume, CNRS researcher in Ecology, University of Montpellier, France.
475. Dr. Philippe Grandcolas, Senior Scientist CNRS (Ecology and Evolution), ISYEB, France
476. Dr. Susana Paula, Ass. Prof. at Universidad Austral de Chile and researcher at the Instituto de Ecología y Biodiversidad (Chile)
477. Dr. Irmgard Greilhuber, Ao.Univ.-Prof., Dept. of Botany, University of Vienna, Austria
478. Dr. Joan Llovet, Professor, CEB, Spain
479. Dr. Clelia Sirami, Researcher INRAE, France
480. Dr Sylvaine Lemeilleur, Researcher, CIRAD, UMR MOISA, Montpellier, France
481. Dr. Floriane Clement, Researcher, INRAE, France
482. Dr. Marilyne Laurans, Researcher, CIRAD, UMR AMAP, Montpellier, France
483. Dr. Etienne-Pascal Journet, CNRS researcher in agronomy, UMR AGIR, Toulouse, France
484. Dr. Bernard Dumas, CNRS researcher Plant Biology, head LRSV UMR, Toulouse, France
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485. Dr. Alberto Sanz Cobeña, Professor. UPM, Spain
486. Prof. Olivier De Schutter, Catholic University of Louvain (Belgium) and Sciences Po (France)
487. Dr. Britta Uhl, Goethe University Frankfurt, Institute of Ecology, Diversity and Evolution, Germany
488. Dr. Mirko Wölfling, independent researcher (Bio-advice), former University of Vienna, Austria
489. Dr Christian Schöb, Universidad Rey Juan Carlos, Spain
490. Prof Dr Luc De Meester, IGB (Berlin, Germany), Freie Universität Berlin (Germany), KU Leuven (Belgium)
491. Dr. Cristina Armas, Estación Experimental de Zonas Áridas, CSIC. Spanish National Research Council. Spain.
492. Dr. Eve Bureau-Point, Researcher, CNRS, Centre Norbert Elias, Marseille, France
493. Dr Florence Volaire, Researcher, INRAE, Center for Functional and Evolutive Ecology, Montpellier, France
494. Dr. Gunnar Lischeid, Leibniz Centre for Agricultural Landscape Research and University of Potsdam, Germany
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496. Dr. Quentin Struelens, Researcher, IRD, Center for Functional and Evolutive Ecology, Montpellier, France
497. Prof. Jean-Pierre Sarthou, Lab. Functional Ecology & Environment, INP-ENSAT, University of Toulouse, France.
498. Dr. Alexander Feckler, iES Landau, Institute for Environmental Sciences, RPTU, Germany
499. Dr. Cécile Thiaucourt, co-founder of rewilding charity 'terres à Terre', Montpellier, France.

500. Dr. Philippe Borsa, researcher, Institut de recherche pour le développement (IRD-UMR 250 S), Montpellier, France
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505. Dr. Henning Meesenburg, Northwest German Forest Research Institute, Germany
506. Dr. Stanislas Rigal, Postdoctoral researcher, Swedish University of Agricultural Sciences, Sweden
507. Prof. Dr. Pedro J. Rey, Departamento de Biología Animal, Biología Vegetal y Ecología. Universidad de Jaén, Spain.
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611. Dr Mathieu Bouffard, Postdoctoral Researcher, University of Nantes, France
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613. Dr Antoine Tiberj, Associate Professor, Laboratory Charles Coulomb, University of Montpellier & CNRS, Montpellier France
614. Dr. Magali Cazade, project development advisor, Cirad, Montpellier, France
615. Dr Magali Della Sudda, Researcher, Political science, CNRS & Centre Emile Durkheim UMR5116, Bordeaux, France.
616. Msc. Jan Barilla, PhD candidate, UCM Trnava, Slovakia
617. Dr. Julia Le Noë, Researcher, IRD, ilnstitute of ecology and environmental sciences of Paris, France.
618. Dr. Sonia Petrarca, PhD Student, University of Molise, Department of Agriculture, Environment and Food, Campobasso, Italy
619. Dr Andreas Melcher, Universiät für Bodenkultur Wien, BOKU, Austria
620. Loïc Colin, PhD student, CNRS, Gif-sur-Yvette, France
621. Benjamin Andreu , PhD Student, Université Paris-Saclay, Gif-sur-Yvette, France
622. Patricia Gibert,, DR CNRS, Laboratoire Biométrie, Biologie Evolutive, Villeurbanne France
623. Laurent Heliot, IRHC CNRS, laboratoire PhLAM, Director of GDR ImaBio, Villeneuve-d'Ascq, France.

624. François Chiron, MC, Ecologie Systématique Evolution, Université Paris-Saclay, CNRS, AgroParisTech, France
625. Dr Caroline Gibert, docteur-ingénieur agroécologue, Toulouse, France
626. Dr Yann Tricault, Lecturer, Institut Agro, UMR IGEPP, France
627. Dr F-J Richard, MCU, Ecologie et Biologie des interactions, UMR CNRS Université de Poitiers, France.
628. DR. Joan Cortinas, université Bordeaux
629. Pr Sabine Barles, Université Paris 1 Panthéon-Sorbonne
630. Dr Anna Zaidman-Rémy, Associate Professor INSA-Lyon, France
631. Dr Claire Villemant, Attachée honoraire, Muséum National d'Histoire Naturelle, Paris, France
632. Dr Emilie Le Goff, Université de Montpellier, France
633. Prof. Dr. Martin Giurfa, University Paul Sabatier - Toulouse III, Toulouse, France
634. Prof. Julien Royet. Aix Marseille Université, France
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636. Dr. Julia Clause, Associate Professor, Université de Poitiers UMR CNRS 7267 - EBI, Poitiers, France
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638. Chloé Galland, PhD student, Chemical and Behavioural Ecology, Gembloux Agro-Bio Tech, Université de Liège, Belgique
639. Dr. Vera Ros, Associate Professor, Laboratory of Virology, Wageningen University, thrancee Netherlands
640. Dr. Grybos Malgorzata, Limoges University, France
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644. Clémentine Leroy, PhD student, UR406 Abeilles et Environnement, INRAe PACA, Avignon, France
645. Antoine Bernard de Raymond, Social scientist; Bordeaux Sciences Economiques, INRAE, Pessac, France
646. DI Stefan Lefnaer; Austrian Association for Floristic Research; co-author of the Austrian Red List of ferns and flowering plants 2022, Vienna, Austria
647. Dr. Michael D. Greenfield, Invited Professor, Equipe Neuro-Ethologie Sensorielle, ENES/ Neuro-PSI, CNRS UMR 9197, Université de Lyon/Saint-Etienne 42023 Saint Etienne, France
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651. Dr. Simon Fellous, research Director, Pest control, INRAEP, France
652. Dr. Pierre Franck, Researcher, Agroecology, INRAE, Avignon, France
653. Dr Errol Vela, Associate Professor, biodiversity and botany, university of Montpellier, France
654. Gabriela Rabeschini, PhD student, Senckenberg Biodiversity and Climate Research Center, Frankfurt am Main, Germany

655. Dr. Demetrios Kouretas, Professor Biochemical Toxicology, University of Thessaly, Greece, President of Greek Toxicology Society
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657. Prof. Sergine Ponsard, Insect evolution, Toulouse 3 University, France.
658. Dr. Jérémy Gauthier, Museum of Geneva, Switzerland.
659. Dr. Guillaume ADEUX, Researcher, INRAE Bourgogne-Franche-Comté, Dijon, France
660. Tschurr Flavian, PhD student, Institute of Agricultural Science, ETH Zurich
661. Corina Oppliger, PhD student, Institute of Agricultural Sciences, ETH Zurich
662. Thorsten Treue, Associate Professor, University of Copenhagen,
663. Dr. Marcel AMICHOT, INRAE PACA, Sophia-Antipolis, France
664. Dr. Jean-Luc Brunet, Bees and Environment, INRAE PACA, Avignon, France
665. Dr. Pauline Cervan, Pharmacist and toxicologist, Générations Futures, France
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704. Alfred Grand, GRAND FARM for research and demonstration, Austria
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706. Edith Eder, PhD Candidate at IBED, University of Amsterdam, The Netherlands
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708. Dr. Marjan Smeulders, researcher. Radboud University, Department of Microbiology, The Netherlands
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710. Prof. Filipe Duarte Santos, University of Lisbon, Faculty of Sciences, CE3C, Portugal
711. Mag. Elisabeth Gussmagg-Pflegl, GRAND FARM for research and demonstration, Austria
712. Prof Dr Dr Urs Niggli, Institute of Agroecology, Switzerland and Re-Imagine Europa, Brussels.
713. Dr Christine Malfay-Regnier, President of the association SOS MCS, Valence France.
714. Prof. Bastiaan R. Bloem, MD, PhD, FRCPE, director of the Radboudumc Center of Expertise for Parkinson & Movement Disorders, Nijmegen, the Netherlands
715. Dr. Catarina Cruzeiro, EUS, Helmholtz Munich Institute, Neuherberg, Germany
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