

GMO papers in *Environmental Sciences Europe*

Environmental Sciences Europe was established in 1989 as "Umweltwissenschaften und Schadstoff-Forschung (German for *Environmental Science and Pollution Research*)", but changed to its current name in 2011. It has no impact factor.

It has published 22 articles dealing with GMOs. 15 are from authors opposed to GMOs (some papers have a quite aggressive tone) or members of anti-GMO organizations, or with financial links to anti-GMO lobbies. 2 papers have no obvious anti-GMO bias and 2 are replies to biased articles published in the journal. 3 articles are co-authored by a member of the editorial board, with no obvious anti-GMO bias, but indicating that the editorial board is aware of issues surrounding GMOs and should have identified the biased nature of most articles published in the journal on GMOs. The journal claims to be peer-reviewed.

Papers published by authors linked to anti-GMO organizations (sometimes under the affiliation of such organizations)

CRIIGEN:

Genetically modified crops safety assessments: present limits and possible improvements

Gilles-Eric Séralini, Robin Mesnage, Emilie Clair, Steeve Gress, Joël Spiroux de Vendômois and Dominique Cellier

<http://www.enveurope.com/content/23/1/10>

GenØk:

The German ban on GM maize MON810: scientifically justified or unjustified?

Thomas Bøhn, Raul Primicerio and Terje Traavik

<http://www.enveurope.com/content/24/1/22>

TestBiotech:

Cultivation-independent establishment of genetically engineered plants in natural populations: current evidence and implications for EU regulation

Andreas Bauer-Panskus, Broder Breckling, Sylvia Hamberger and Christoph Then

<http://www.enveurope.com/content/25/1/34>

ENSSER:

Systemic risks of genetically modified crops: the need for new approaches to risk assessment

Hartmut Meyer

<http://www.enveurope.com/content/23/1/7>

Rat feeding studies with genetically modified maize - a comparative evaluation of applied methods and risk assessment standards

Hartmut Meyer and Angelika Hilbeck

<http://www.enveurope.com/content/25/1/33>

A controversy re-visited: Is the coccinellid *Adalia bipunctata* adversely affected by Bt toxins?

Angelika Hilbeck, Joanna M McMillan, Matthias Meier, Anna Humbel, Juanita Schläpfer-Miller and Miluse Trtikova

<http://www.enveurope.com/content/24/1/10>

Underlying reasons of the controversy over adverse effects of Bt toxins on lady beetle and lacewing larvae

Angelika Hilbeck, Matthias Meier and Miluse Trtikova

<http://www.enveurope.com/content/24/1/9>

Scrutinizing the current practice of the environmental risk assessment of GM maize applications for cultivation in the EU

Marion Dolezel, Marianne Miklau, Angelika Hilbeck, Mathias Otto, Michael Eckerstorfer, Andreas Heissenberger, Beatrix Tappeser and Helmut Gaugitsch

<http://www.enveurope.com/content/23/1/33>

Environmental risk assessment of genetically modified plants - concepts and controversies
Angelika Hilbeck, Matthias Meier, Jörg Römbke, Stephan Jänsch, Hanka Teichmann and Beatrix Tappeser

<http://www.enveurope.com/content/23/1/13>

Farmer's choice of seeds in four EU countries under different levels of GM crop adoption
Angelika Hilbeck, Tamara Lebrecht, Raphaela Vogel, Jack A Heinemann and Rosa Binimelis

<http://www.enveurope.com/content/25/1/12>

Other papers linked to 'green' organizations

Surveying the occurrence of spontaneous glyphosate-tolerant genetically engineered *Brassica napus* L. (Brassicaceae) along Swiss railways

Nicola Schoenenberger and Luigi D'Andrea

<http://www.enveurope.com/content/24/1/23>

The project was partially funded by AWEL, Section of Biological security of the Canton Zurich, the Fondation pour une Terre Humaine, and by Greenpeace Switzerland.

Impacts of genetically engineered crops on pesticide use in the U.S. -- the first sixteen years

Charles M Benbrook

<http://www.enveurope.com/content/24/1/24>

Funding to support the development of the model was provided by the Institute for Agriculture and Trade Policy, Consumers Union, UCS, and The Organic Center.

Others papers with anti-GMO biases:

The booklet "Genetically modified crops" published from the German Research Foundation, does not meet the given claim

Friedhelm Taube, Michael Krawinkel, Andreas Susenbeth and Werner Theobald

<http://www.enveurope.com/content/23/1/1>

"We conclude that the evaluation of GMO's in agriculture primarily from a crop breeding perspective is lacking crucial positions..."

European Union and German law on co-existence: Individualisation of a systemic problem

Gerd Winter and Sarah Stoppe-Ramadan

<http://www.enveurope.com/content/23/1/28>

This paper asks for tougher laws on GMOs.

From risk assessment to in-context trajectory evaluation - GMOs and their social implications

Vincenzo Pavone, Joanna Goven and Riccardo Guarino

<http://www.enveurope.com/content/23/1/3>

"the lack of long-term studies, further aggravated by current methodological deficiencies, prevent risk assessment from considering not only how GMOs affect the environmental context but also, and most importantly, the way people live in, and interact with, this context."

List of references biased towards anti-GMO and postmodernist authors

Papers co-authored by a member of the editorial board

(no obvious bias, but a obvious lack of critical views on biased articles published in the journal)

Implications of GMO cultivation and monitoring-series

Gunther Schmidt and **Winfried Schröder**

<http://www.enveurope.com/content/23/1/2>

"Considerable scientific work has to be done to solve the remaining open questions".

This article is an editorial on the GMLS conferences, which invite anti-GMO authors, which does not identify their biased nature (Schmidt and Schröder were actually in the Organising Committee of these anti-GMO conferences; see <http://www.ensser.org/fileadmin/files/Programmheft.pdf>).

Overview of principles and implementations to deal with spatial issues in monitoring environmental effects of genetically modified organisms

Winfried Schröder and Gunther Schmidt

<http://www.enveurope.com/content/24/1/6>

Cultivation of GMO in Germany: support of monitoring and coexistence issues by WebGIS technology
Lukas Kleppin, Gunther Schmidt and **Winfried Schröder**

<http://www.enveurope.com/content/23/1/4>

Other unbiased articles

Setup, efforts and practical experiences of a monitoring program for genetically modified plants - an Austrian case study for oilseed rape and maize

Kathrin Pascher, Dietmar Moser, Stefan Dullinger, Leopold Sachslehner, Patrick Gros, Norbert Sauberer, Andreas Traxler, Georg Grabherr and Thomas Frank

<http://www.enveurope.com/content/23/1/12>

Consequences of isolation distances on the allocation of GM maize fields in agricultural landscapes of Germany

Ulrich Stachow, Claudia Bethwell, Angelika Wurbs and Frieder Graef

<http://www.enveurope.com/content/25/1/24>

Replies to biased articles

A reply to Hilbeck's parallel science:

Putative effects of Cry1Ab to larvae of *Adalia bipunctata* - reply to Hilbeck et al. (2012)

Jörg Romeis, Fernando Álvarez-Alfageme and Franz Bigler

<http://www.enveurope.com/content/24/1/18>

Response to the criticism by Taube *et al.* in ESE 23:1, 2011, on the booklet "Green Genetic Engineering" published by the German Research Foundation (DFG)

Inge Broer, Christian Jung, Frank Ordon, Martin Qaim, Barbara Reinhold-Hurek, Uwe Sonnewald and Andreas von Tiedemann

<http://www.enveurope.com/content/23/1/16>