



POINTS TO CONSIDER

FALSE CLAIMS ABOUT PESTICIDE TOXICITY BASED ON DISCREDITED METHODS

A series designed to correct
mischaracterizations in selected
publications regarding crops and foods
improved through biotechnology

L. Val Giddings, Ph.D., Senior Fellow

ITIF | 1101 K Street N.W. Suite 610, Washington, DC 20005
E-mail: mail@mail.itif.org | Phone: (202) 449-1351 | Fax: (202) 638-4922 | Twitter: @ITIFdc

PRIMARY CLAIMS MADE:

Pesticide formulations as sold and used are up to 1,000 times more toxic than the isolated substance that are tested and evaluated for safety.

Roundup is the most toxic of herbicides and insecticides tested.

Source: [Major Pesticides Are More Toxic to Human Cells Than Their Declared Active Principles](#) by Robin Mesnage, Nicolas Defarge, Joël Spiroux de Vendômois, and Gilles-Eric Séralini, BioMed Research International, October, 2013

REBUTTAL



FACT: PESTICIDES PROPERLY HANDLED ARE SAFE TO USE AND ESSENTIAL TO AGRICULTURE

- The findings are misleading and derived from [flawed experimental design](#).
- The [experimental conditions](#) used in the study fail to represent the exposure pathways under real-world uses and exposed cells to unrepresentative, high levels of several compounds.
- Similar results would be expected from exposure to [lemon juice or grapefruit](#).
- One of the journal editors was so unhappy with the poor quality of the study and flawed peer review that he immediately [resigned his post](#).

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