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Water flow drives small scale biogeography of pesticides and bacterial pesticide degraders - a microcosm study using 2,4-D as a model compound



Marc Pinheiro, Holger Pagel, Christian Poll, Franziska Ditterich, Patricia Garnier, Thilo Streck, Ellen Kandeler, Laure Vieublé Gonod

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Water flow drives small scale biogeography of pesticides and bacterial pesticide 1 2 degraders - a microcosm study using 2,4-D as a model compound 3 Marc Pinheiro^{a*}, Holger Pagel^{b*}, Christian Poll^c, Franziska Ditterich^c, Patricia Garnier^a, Thilo 4 Streck^b, Ellen Kandeler^c and Laure Vieublé Gonod^{a**} 5 6 ^a UMR Ecosys, INRA, AgroParisTech, Université Paris-Saclay, 78850, Thiverval Grignon, 7 France 8 ^b Institute of Soil Science and Land Evaluation, Biogeophysics, University of Hohenheim, 9 70599 Stuttgart, Germany 10 ^c Institute of Soil Science and Land Evaluation, Soil Biology, University of Hohenheim, 11 70599 Stuttgart, Germany 12 13 14 *These two authors have made "equal contributions" to the paper. 15 16 **Corresponding author. 17 UMR Ecosys, INRA, AgroParisTech, Université Paris-Saclay, 78850, Thiverval Grignon, 18 France 19 E-mail address: <u>laure.vieuble@inra.fr</u> (L. Vieublé Gonod) 20 21 22

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