

## List of Publications

### Journal Papers: peer-reviewed

Moermond, C.T., A. Beasley, R. Breton, M. Junghans, R. Laskowski, K. Solomon and H. Zahner, Assessing the reliability of ecotoxicological studies: an overview of current needs and approaches. *submitted*.

Knauer, K., N. Homazava, M. Junghans, I. Werner, The influence of particles on bioavailability and toxicity of pesticides in surface water. *submitted*.

Junghans, M., S. Andres, J. Bachmann, Kase R., M. Korkaric, I. Kirst, G. Maack, C. T. Moermond, E. Smit, S. Valsecchi, J. Vanhooren, E. Verbruggen, I. Werner and P. Whitehouse, Letter to the Editor. *Environmental Toxicology and Chemistry*, *accepted*.

Aldrich, A., M. Junghans, C. Aeberli, C. Brühl, F. Streissl and B. Schmidt, Amphibians and plant-protection products: what research and action is needed? *Environmental Sciences Europe*, 2016. 28(17): p. 1-8. (shared first authorship)

Korkaric, M., R. Behra, B. B. Fischer, M. Junghans and R. I. L. Eggen, Multiple stressor effects in *Chlamydomonas reinhardtii* - Toward understanding mechanisms of interaction between effects of ultraviolet radiation and chemical pollutants. *Aquatic Toxicology*, 2015. 162: p. 18-28.

Moschet, C., I. Wittmer, J. Simovic, M. Junghans, A. Piazzoli, H. Singer, C. Stamm, C. Leu and J. Hollender, How a complete pesticide screening changes the assessment of surface water quality. *Environmental Science and Technology*, 2014. 48(10): p. 5423-5432.

Gregorio, V., N. Chèvre, and M. Junghans, Critical issues in using the common mixture toxicity models concentration addition or response addition on species sensitivity distributions: A theoretical approach. *Environmental Toxicology and Chemistry*, 2013. 32(10): p. 2387-2395.

Price, P., X. Han, M. Junghans, P. Kunz, C. Watts and D. Leverett, An application of a decision tree for assessing effects from exposures to multiple substances to the assessment of human and ecological effects from combined exposures to chemicals observed in surface waters and waste water effluents. *Environmental Sciences Europe*, 2012. 24(1).

Price, P., E. Dhein, M. Hamer, X. Han, M. Heneweer, M. Junghans, P. Kunz, C. Magyar, H. Penning and C. Rodriguez, A decision tree for assessing effects from exposures to multiple substances. *Environmental Sciences Europe*, 2012. 24(1).

Burkhardt, M., M. Junghans, S. Zuleeg, U. Schoknecht, X. Lamani, K. Bester, R. Vonbank, H. Simmler and M. Boller, Biocides in building facades - Ecotoxicological effects, leaching and environmental risk assessment for surface waters. *Umweltwissenschaften und Schadstoff-Forschung*, 2009. 21(1): p. 36-47.

Vallotton, N., D. Moser, R. I. L. Eggen, M. Junghans and N. Chèvre, S-metolachlor pulse exposure on the alga *Scenedesmus vacuolatus*: Effects during exposure and the subsequent recovery. *Chemosphere*, 2008. 73(3): p. 395-400.

Neuwoehner, J., M. Junghans, M. Koller and B. I. Escher, QSAR analysis and specific endpoints for classifying the physiological modes of action of biocides in synchronous green algae. *Aquatic Toxicology*, 2008. 90(1): p. 8-18.

Junghans, M., M. Schaefer, W. Drost, E. Hassold, F. Stock, M. Dünne, T. Juffernholz, W. Meyer and J. Ranke, Reconsidering environmental effects assessment of chemicals: Proposal for a dynamic testing strategy. *Basic and Applied Ecology*, 2008. 9(4): p. 356-364.

Muncke, J., M. **Junghans**, and R.I.L. Eggen, Testing estrogenicity of known and novel (xeno-) estrogens in the MolDarT using developing zebrafish (*Danio rerio*). *Environmental Toxicology*, 2007. 22(2): p. 185-193.

**Junghans**, M., Backhaus, M. Faust, M. Scholze and L. H. Grimme, Application and validation of approaches for the predictive hazard assessment of realistic pesticide mixtures. *Aquatic Toxicology*, 2006. 76(2): p. 93-110.

Arrhenius, Å., T. Backhaus, F. Grönvall, M. **Junghans**, M. Scholze and H. Blanck, Effects of three antifouling agents on algal communities and algal reproduction: Mixture toxicity studies with TBT, Irgarol, and Sea-Nine. *Archives of Environmental Contamination and Toxicology*, 2006. 50(3): p. 335-345.

**Junghans**, M., T. Backhaus, M. Faust, M. Scholze and L. H. Grimme, Toxicity of sulfonylurea herbicides to the green alga *Scenedesmus vacuolatus*: Predictability of combination effects. *Bulletin of Environmental Contamination and Toxicology*, 2003. 71(3): p. 585-593.

**Junghans**, M., T. Backhaus, M. Faust, M. Scholze and L. H. Grimme, Predictability of combined effects of eight chloroacetanilide herbicides on algal reproduction. *Pest Management Science*, 2003. 59(10): p. 1101-1110.

Backhaus, T., R. Altenburger, Å. Arrhenius, H. Blanck, M. Faust, A. Finizio, P. Gramatica, M. Grote, M. **Junghans**, W. Meyer, M. Pavan, T. Porsbring, M. Scholze, R. Todeschini, M. Vighi, H. Walter and L. Horst Grimme, The BEAM-project: Prediction and assessment of mixture toxicities in the aquatic environment. *Continental Shelf Research*, 2003. 23(17-19): p. 1757-1769.

## Journal Papers: not peer reviewed

Aldrich, A., M. **Junghans**, C. Aeberli, C. Brühl, F. Streissl and B. Schmidt, Amphibien und Pflanzenschutzmittel: Forschungs- und Handlungsbedarf. *Aqua & Gas*, 2016. 4/2016: p. 14-20.M.C.

Ochsenbein, U., J.-D. Berset, M. **Junghans** and E. Scheiwiller, Mikroverunreinigungen in Bernischen Gewässern: Belastungssituation und neue ökotoxikologische Beurteilung der Risiken. *Aqua & Gas*, 2015. N°2 / 2015.

Wittmer, I., C. Moschet, J. Simovic, H. Singer, C. Stamm, M. **Junghans** and J. Hollender, Über 100 Pestizide in Fliessgewässern. *Aqua & Gas*, 2014. N°3 / 2014.

**Junghans**, M., P. Kunz, and I. Werner, Toxizität von Mischungen: Aktuelle, praxisorientierte Ansätze für die Beurteilung von Gewässerproben. *Aqua & Gas* 2013. N°5 / 2013: p. 54-61.

**Junghans**, M., R. Kase, and N. Chèvre, Qualitätskriterien für Pflanzenschutzmittel: Methode zur Herleitung von Qualitätskriterien für PSM in Schweizer Oberflächengewässern. *Aqua & Gas*, 2012. N°11 / 2012.

## Other Publications

### Technical Reports

**Junghans**, M. and I. Werner, Mixture toxicity of plant protection products. The Swiss Centre for Applied Ecotoxicology, Eawag-EPFL, Dübendorf. *in prep*.

Wittmer, I., M. **Junghans**, C. Stamm and H. Singer, Mikroverunreinigungen - Beurteilungskonzept für organische Spurenstoffe aus diffusen Quellen. Studie im Auftrag des Bundesamtes für Umwelt (BAFU). , Eawag, Editor. 2015.

Burkhardt, M., C. Dietschweiler, S. Campiche, M. **Junghans**, A. Schifferli, D. Baumberger, C. Kienle, E. Vermeirssen and I. Werner, Ecotoxicological Assessment of Immersion Samples from

Façade Render, B. Report for the Swiss Federal Office for the Environment FOEN, p. 34., Editor. 2013.

**Junghans, M.,** N. Chèvre, C. Di Paolo, R. I. L. Eggen, R. Gälli, V. Gregorio, A. Häner, N. Homazava, Perazzolo C. and Kase R., Aquatic Risks of Plant Protection Products: A Comparison of Different Hazard Assessment Strategies for Surface Waters in Switzerland. Study on behalf of the Swiss Federal Office for the Environment. Swiss Centre for Applied Ecotoxicology, Eawag-EPFL, Duebendorf. Study on behalf of the Swiss Federal Office for the Environment. Swiss Centre for Applied Ecotoxicology, Eawag-EPFL, Duebendorf. 2011.

### **Book Chapters**

Kase, R., R. I. L. Eggen, **M. Junghans**, C. Götz and J. Hollender Assessment of Micropollutants from Municipal Wastewater- Combination of Exposure and Ecotoxicological Effect Data for Switzerland, in Waste Water - Evaluation and Management, F.S.G. Einschlag, Editor. 2011, InTech.

### **Ecotox Centre and Eawag Info Sheets**

**Junghans, M.,** Werner, I., Schäfer, A., Stamm, C., Eggen, R.I.L., Bryner, A. (2015). Ökotoxikologische Beurteilung von Pflanzenschutzmittelkonzentrationen in Oberflächengewässern: Was unterscheidet Überwachungswerte (EQS) von Zulassungswerten (RAC)?

Stamm, C., **Junghans, M.,** Werner, I., Eggen, R.I.L., Bryner, A. (2015). Häufige Fragen zum Thema Pflanzenschutzmittel in Gewässern.

**Junghans, M.,** Homazava, N., Bryner, A., Schirmer, M. (2013). Shale gas - Information on hydraulic fracturing ("fracking").