



Name: **Univ.-Prof. Dr.rer.nat. Henner Hollert**
Address: Institute für Umweltforschung, Worringer Weg 1, 52074 Aachen
Germany
Date and Place of Birth: 25th May, 1969, Bensheim, Germany

Current Positions

- University Professor for Ecosystem Analyses Research, RWTH Aachen University
- Board member of the Institute for Ecosystem Analysis gaia, Aachen, a SME

Academic Qualifications

1997 Diplom in Biology and 1. Staatsexamen Biology & Geography (University of Heidelberg)
2001 Dr. rer. nat. (Summa cum laude, "Studienstiftung des Deutschen Volkes", University of Heidelberg)

Professional Career

2007 W2 Professor at RWTH, Head of the Department for Ecosystem Analyses (ESA), Institute of
Environmental Research (Biology V), Aachen University, Germany
2007 Head of the Institute of Environmental Research (together with Prof. Dr. Andreas Schäffer)
2001-2007 Assistant professor, University in Heidelberg, Germany, Department for Zoology

Memberships and professional development

since 2014 Dean of the faculty of Biology and Biotechnology at RWTH Aachen University
since 2012 Chair of the working group bioassays in the Norman Network
since 2012 Adjunct Professorships at 3 Chinese Universities: Chongqing, Tongji University in Shanghai,
Nanjing University
since 2012 Member of the CMEP drafting group on effect based tools of the European Commission
since 2012 Editorial Board Journal Environmental Sciences- JES, Chinese Academy of Sciences
since 2012 Editorial Board Journal of Chongqing Normal University
since 2011 Editor in Chief of Environ Sci Europe – the first Open Access Journal of Springer Publishers in
Environmental Sciences
since 2010 Organizing committee of the German-American Frontiers of Science Symposia (US National
Academy of Science and Humboldt Foundation) 2011 and 2012
since 2005 Subject Editor JSS - J Soils & Sediments
2005 - 2016 Editor Environ Sci & Pollut Res
since 10.2016 Associate Editor The Science of Total Environment (STOTEN)

Current research topics

Expert in bioanalytical environmental toxicology, aquatic toxicology, development and validation of in vitro bioassays, sediment and soil toxicology, waste- and ground water investigations, bioassay-directed fractionation and statistical evaluation of complex data matrixes. Has published more than 240 peer-reviewed international and national articles as well as book chapters in this area (161 listed in ISI-Web-of-Science, 83 ISI-listed papers in the last 5 years, H-Index of 32). In a recent comparison of ISI-based citations in Laborjournal (2011) Prof. Hollert was ranked as the 3rd most cited Ecotoxicologist in the German-language region (Germany, Switzerland and Austria)

Selected Publications

- Schiwy, A., Maes, H.M., Koske, D., Flecken, M., Schmidt, K.R., Schell, H., Tiehm, A., Kamptner, A., Thummler, S., Stanjek, H., Heggen, M., Dunin-Borkowski, R.E., Braun, J., Schaffer, A. and **Hollert, H.** (2016) The ecotoxic potential of a new zero-valent iron nanomaterial, designed for the elimination of halogenated pollutants, and its effect on reductive dechlorinating microbial communities. *Environ Pollut* 216, 419-427
- Pan, Y., Leifert, A., Graf, M., Schiefer, F., Thoree-Boveleth, S., Broda, J., Halloran, M.C., **Hollert, H.**, Laaf, D., Simon, U. and Jahnen-Dechent, W. (2013) High-sensitivity real-time analysis of nanoparticle toxicity in green fluorescent protein-expressing zebrafish. *Small* 9(6), 863-869.
- Simon, A., Maletz, S.X., **Hollert, H.**, Schaffer, A. and Maes, H.M. (2014) Effects of multiwalled carbon nanotubes and triclocarban on several eukaryotic cell lines: elucidating cytotoxicity, endocrine disruption, and reactive oxygen species generation. *Nanoscale Res Lett* 9(1), 396.
- Simon, A., Preuss, T.G., Schaffer, A., **Hollert, H.** and Maes, H.M. (2015) Population level effects of multiwalled carbon nanotubes in *Daphnia magna* exposed to pulses of triclocarban. *Ecotoxicology* 24(6), 1199-1212.
- Wyrwoll, A.J., Lautenschlager, P., Bach, A., Hellack, B., Dybowska, A., Kuhlbusch, T.A., **Hollert, H.**, Schaffer, A. and Maes, H.M. (2016) Size matters--The phototoxicity of TiO₂ nanomaterials. *Environ Pollut* 208(Pt B), 859-867.
- Brinkmann, M., Rizzo, L.Y., Lammers, T., Gremse, F., Schiwy, S., Kiessling, F. and **Hollert, H.** (2016) Micro-computed tomography (muCT) as a novel method in ecotoxicology--determination of morphometric and somatic data in rainbow trout (*Oncorhynchus mykiss*). *Sci Total Environ* 543(Pt A), 135-139.
- Brinkmann, M., Koglin, S., Eisner, B., Wiseman, S., Hecker, M., Eichbaum, K., Thalmann, B., Buchinger, S., Reifferscheid, G. and **Hollert, H.** (2016) Characterisation of transcriptional responses to dioxins and dioxin-like contaminants in roach (*Rutilus rutilus*) using whole transcriptome analysis. *Sci Total Environ* 541, 412-423.
- Brinkmann M, Eichbaum K, Buchinger S, Reifferscheid G, Bui T, Schaffer A, **Hollert H**, Preuss TG (2014): Understanding Receptor-Mediated Effects in Rainbow Trout: In Vitro-in Vivo Extrapolation Using Physiologically Based Toxicokinetic Models. *Environ Sci Technol* 48, 3303-9
- Maletz, S., T. Floehr, S. Beier, C. Klümper, A. Brouwer, P. Behnisch, E. Higley, J. P. Giesy, M. Hecker, W. Gebhardt, V. Linnemann, J. Pinnekamp, and **H. Hollert**. 2013. In vitro characterization of the effectiveness of enhanced sewage treatment processes to eliminate endocrine activity of hospital effluents. *Water Research* 47:1545-1557
- Strähle U, Scholz S, Geisler R, Greiner P, Hollert H, Rastegar S, Schumacher A, Selderslaghs I, Weiss C, Witters H, Braunbeck T (2012): Zebrafish embryos as an alternative to animal experiments-A commentary on the definition of the onset of protected life stages in animal welfare regulations. *Reproductive Toxicology* 33, 128-132
- Schiwy A, Brinkmann M, Thiem I, Guder G, Winkens K, Eichbaum K, Nuesser L, Thalmann B, Buchinger S, Reifferscheid G, Seiler T-B, Thoms B, Hollert H (2015): Determination of the CYP1A-inducing potential of single substances, mixtures and extracts of samples in the micro-EROD assay with H4IIE cells. *Nature Protocols* 10, 1728-1741 (Impact Factor 9,8)