Curriculum Vitae

Last name, First name: **Backhaus, Thomas** **Gender**: **male**

Nationality/ies: **German, Swedish**

Overall Scientific Expertise:
Thomas Backhaus is full professor at the University of Gothenburg where he works in the area of (eco)toxicology and chemical risk assessment, with a focus on the assessment of complex exposure situations (ecotoxicology of chemical mixtures) and regulatory (eco)toxicology.

Professional Experience
[Starting with your present occupation, list in reverse chronological order each activity in which you have been engaged. Please copy and paste more rows if needed.]

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation♠
2011 – ongoing	Professor	University of Gothenburg	Risk Assessment of Chemicals, Ecotoxicology
2016 – current	Director of FRAM Centre	University of Gothenburg	Risk Assessment of Chemicals, Ecotoxicology
2009 - 2011	Director of "Marine Paint" Programme	University of Gothenburg	Environmental Optimisation of Antifouling Paints
2002 - 2020	Minor partner in "Faust & Backhaus, Environmental Consulting"	F&B Environmental Consulting	Development of regulatory strategies for chemical risk assessment
2008-2011	Associate Professor	University of Gothenburg	Risk Assessment of Chemicals, Ecotoxicology
2005-2008	Assistant Professor	University of Gothenburg	Risk Assessment of Chemicals, Ecotoxicology
2000-2005	Research Associate	University of Bremen	Molecular Ecotoxicology
1993-1999	PhD Student	University of Bremen	Ecotoxicology
1998-1999	MSc Student	University of Bremen	Ecotoxicology

♠[*For example*: toxicology (alternative methods, carcinogenesis, endocrine, immunotoxicity, occupational, exposure assessment, genotoxicity, etc.), chemistry (atmospheric, medicinal, peptide, etc.), physics (biophysics, EMF radiation, noise, etc.), engineering (genetic, environmental, medical, etc.), biology (antimicrobial resistance, biophysics, biotechnology, etc.), medicine (allergies, neurology, etc.), epidemiology (clinical, genetic, cancer, etc.) environmental science (air quality, waste treatment, climate change, ecology, etc.), biostatistics, pharmacokinetics, medical technologies, nanoscience, etc…]

Educational Background

[Starting with the most recent, please provide the details of your post-secondary education and/or professional training (e.g. university or its equivalent, postgraduate, postdoctoral). Please copy and paste more rows if needed.]

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation*
1999	PhD	University of Bremen	Ecotoxicology

*[*For example*: chemistry (analytical, organic, etc.), physics (thermodynamics, nuclear, etc.), engineering (mechanical, electrical, chemical, civil, etc.), biology (microbiology, molecular, etc.), medicine (dermatology, oncology, etc.), environmental science, pharmacology, toxicology, etc.…]

Memberships in Scientific Advisory Bodies/Committees/Panels *(if any)*:
Swedish Toxicology Council (Member)

Memberships in Learned Societies *(if any)*:
Society of Environmental Toxicology and Chemistry (SETAC)

Memberships in Editorial Boards *(if any)*:
Senior Editor of Integrated Environmental Assessment and Management (IEAM)

List of Publications:
[Please indicate the type and total number of your publications. In addition, provide the bibliographic details for the 10 most representative, peer-reviewed articles which highlight the main areas of your scientific expertise.]

Details on my peer-reviewed publication can be found at
http://scholar.google.se/citations?hl=en&user=8Fa3p78AAAAJ

10 relevant recent publications

Zhanyun Wang, Rolf Altenburger, Thomas Backhaus, Adrian Covaci, Miriam L. Diamond, Joan O. Grimalt, Rainer Lohmann, Andreas Schäffer, Martin Scheringer, Henrik Selin, Anna Soehl, Noriyuki Suzuki. 2021 We need a global science-policy body on chemicals and waste. Science. 371(6531) https://doi.org/10.1126/science.abe9090

Backhaus T, Scheringer M, Arrhenius Å, Ubl-Kägi. A strategy and criteria for their Identification. Report for UNITAR 2020
https://unitar.org/sites/default/files/media/file/Final%20Report%20v2%20for%20UNITAR.pdf

Francis Spilsbury, Michael St. Warne, Thomas Backhaus. Risk Assessment of Pesticide Mixtures in Australian Rivers Discharging to the Great Barrier Reef. 2020. Environmental Science and Technology, 54, 22, 14361–14371 https://www.doi.org/10.1021/acs.est.0c04066

Rudén, Christina, Backhaus, Thomas, Bergman, Per, Faust, Michael, Molander, Linda, Slunge, Daniel ”Future chemical risk management: accounting for combination effects and assessing chemicals in groups” Report to the Swedish Government. 2019. https://www.government.se/legal-documents/2019/11/sou-201945/

Koelmans B ; Phal S, Backhaus T, Bessa F, van Calster G, Contzen N, Cronin R, Galloway T, Hart, A, Henderson L, Kalčíková G, Kelly F, Kołodziejczyk B, Marku E, Poortinga W, Rillig M, Van Sebille E, Steg L, Steidl J, Steinhorst J, Syberg K, Thompson R, Wagner M, van Wezel A, Wright S, Wyles K (2019): A scientific perspective on microplastics in nature and society. Report by SAPEA to the EU Commission https://dx.doi.org/10.26356/microplastics

Muncke, J., Andersson, A.M., Backhaus, T., Boucher, J.M., Almroth, B.C., Castillo, A.C., Chevrier, J., Demeneix, B.A., Emmanuel, J.A., Fini, J.B. and Gee, D., 2020. Impacts of food contact chemicals on human health: a consensus statement. Environmental Health, 19(1), pp.1-12. https://doi.org/10.1186/s12940-020-0572-5

Backhaus, T. and Wagner, M., 2019. Microplastics in the environment: Much ado about nothing? A debate. Global Challenges, 4(6), p.1900022. https://doi.org/10.1002/gch2.201900022

Backhaus, T., Brack, W., Van den Brink, P.J., Deutschmann, B., Hollert, H., Posthuma, L., Segner, H., Seiler, T.B., Teodorovic, I. and Focks, A., 2019. Assessing the ecological impact of chemical pollution on aquatic ecosystems requires the systematic exploration and evaluation of four lines of evidence. Environmental Sciences Europe, 31(1), pp.1-9. https://doi.org/10.1186/s12302-019-0276-z

Fantke, P., Aurisano, N., Bare, J., Backhaus, T., Bulle, C., Chapman, P.M., De Zwart, D., Dwyer, R., Ernstoff, A., Golsteijn, L. and Holmquist, H., 2018. Toward harmonizing ecotoxicity characterization in life cycle impact assessment. Environmental toxicology and chemistry, 37(12), pp.2955-2971. https://doi.org/10.1002/etc.4261

Groh, K.J., Backhaus, T., Carney-Almroth, B., Geueke, B., Inostroza, P.A., Lennquist, A., Leslie, H.A., Maffini, M., Slunge, D., Trasande, L. and Warhurst, A.M., 2019. Overview of known plastic packaging-associated chemicals and their hazards. Science of The Total Environment. 651(2),pp 3253-3268 https://doi.org/10.1016/j.scitotenv.2018.10.015