

CV **PD Dr. habil. Ralph Menzel**

Date and place of birth: 22.12.1963, Berlin, Germany
Nationality: German
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Academic Education

1985-1990 Studies in Biology (EMAU Greifswald)
1990 Diploma degree in Biology
1997 PhD (Dr. rer. nat), HU zu Berlin (superv. W.-H. Schunck)
2014 Habilitation in Zoology, HU zu Berlin

Professional Career

1997-1998 Postdoc, Max Delbrück Center for Molecular Medicine (MDC), Berlin
1999-2003 Scientist and lecturer, Institute of Biology, Ecotoxicology & Biochemistry; Freie Universität Berlin
2004-2006 DFG Fellowship, Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin
2007-2011 Scientist and lecturer, Institute of Biology, Freshwater Ecology, Humboldt-Universität zu Berlin
2012-2014 DFG Fellowship, Institute of Biology, Freshwater Ecology, Humboldt-Universität zu Berlin
2015- Private lecturer, Institute of Biology, Ecology, Humboldt-Universität zu Berlin

Memberships and Awards

1991 Diplomandenpreis der Hoechst AG

1997	HFSP Short term fellowship (University of Tokyo, Japan)
1998	Boehringer Ingelheim Short term fellowship (Tokyo, Japan)
2001	Attendance at the Wellcome Trust Advanced Course (Hinxton, UK)
2008	Underwood PostDoc Fellowship (King`s College London, UK)

List of the 10 most important publications

1. Zhou, Y., Falck, J.R., Rothe, M., Schunck, W.-H., **Menzel, R.** (2015) Role of CYP-eicosanoids in the regulation of pharyngeal pumping and food uptake in *C. elegans*. *J. Lipid Res.* **56**, 2110-2123.
2. Ma, D.K., Li, Z., Lu, A.Y., 1, Chen, S., Rothe, M., **Menzel, R.**, Sun, F., Horvitz, H.R. (2015) The *C. elegans* ACDH-11 pathway drives heat adaptation via fatty acid signaling. *Cell* **161**, 1152-1163.
3. Keller, J., Ellieva, A., Ma, D., Ju, J., Nehk, E., Konkell, A., Falck, J.R., Schunck, W.-H., **Menzel, R.** (2014) CYP-13A12 of the nematode *C. elegans* is a PUFA-epoxygenase involved in behavioural response to reoxygenation. *Biochem. J.* **464**, 61-71.
4. Ma, D.K., Rothe, M., Zheng, S., Bhatla, N., Pender, C.L., **Menzel, R.**, Horvitz, H.R. (2013) Cytochrome P450 promotes *C. elegans* behavioral response to reoxygenation. *Science* **341**, 554-558.
5. Kosel, M., Wild, W., Bell, A., Rothe, M., Lindschau, C., Steinberg, C.E.W., Schunck, W.-H., **Menzel, R.** (2011) Eicosanoid formation by a cytochrome P450 isoform expressed in the pharynx of *C. elegans*. *Biochem. J.* **435**, 689-700.
6. **Menzel, R.**, Menzel, S., Tiedt, S., Kubsch, G., Stößer, R., Bährs, H., Putschew, A., Saul, N., Steinberg, C.E.W. (2011) The enrichment of humic material with hydroxybenzene moieties intensifies its physiological effects on the nematode *Caenorhabditis elegans*. *Environ. Sci. Technol.* **45**, 8707-8715.
7. **Menzel, R.**, Swain, S.C., Höss, S. Claus, E., Menzel, S., Steinberg, C.E.W., Reifferscheid, G., Stürzenbaum, S.R. (2009) Gene expression profiling to characterize sediment toxicity - a pilot study using *Caenorhabditis elegans* whole genome microarrays. *BMC Genomics* **10**, 160.
8. Steinberg, C.E.W., Stürzenbaum, S.R., **Menzel, R.** (2008) Genes and environment - striking the fine balance between sophisticated biomonitoring and true functional environmental genomics. *Sci. Total Environ.* **400**, 142-161.
9. **Menzel, R.**, Yeo, H.L., Rienau, S., Li, S., Steinberg, C.E.W. Stürzenbaum S. (2007) Cytochrome P450s and short-chain dehydrogenases mediate the toxicogenomic response of PCB52 in the nematode *C. elegans*. *J. Mol. Biol.* **370**, 1-13.
10. **Menzel, R.**, Stürzenbaum, S., Bärenwaldt, A., Kulas, J., Steinberg, C.E.W. (2005) Humic material induces behavioral and global transcriptional responses in the nematode *C. elegans*. *Environ. Sci. Technol.* **39**, 8324-8332.