

## Curriculum vitae

Wilfried Wackernagel, Prof. Dr. Dr. h.c.

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## Academic Grades and Positions

- 1967 Diploma of Biology at the University of Frankfurt/M (after studies on Biology, Microbiology, Biochemistry, and Physics at the Universities of Münster, Hamburg, and Frankfurt/M)
- 1968 Position: Scientific Research Assitant, Faculty of Biology, Ruhr-University of Bochum
- 1971 Ph.D. at the University of Bochum, Faculty of Biology
- April 1972 – Octobre 1973, February – March 1974, Research Associate, Yale University, New Haven (USA), Dept. of Molec. Biophys. Biochem.
- 1976 Habilitation at the University of Bochum (Subject: “Studies on the mechanisms of genetic recombination in *Escherichia coli* and bacteriophage Lambda”)
- 1982 Professor of Genetics incl. Molec. Genetics at the University of Oldenburg, Head of Section Genetics (emerit. 2007)

## Awards

- June 2005 Dr. honoris causae of the University of Lyon (France)
- March 2015 “Gregor-Mendel-Medal”, Brno (Brünn), Czech. Republic

## Selected academic functions and activities

### International

- Member of numerous international expert groups providing recommendations, critical evaluations, and prelegislation reports on various topics including genetically modified organisms, food and feed safety, transgene spread etc. active for the Institute of Life Science (ILSI, Europe) in Brussels, Vienna, Salzburg, for WHO and FAO (Food and Agricultural Organization) in Geneva.
- Member of the international FEMS expert group (Fed. of Europ. Microbiol. Societies) on the use of gene technology in microbiology (1995-1996)
- Member of the European Working Group on New genetic Techniques (NTWG) in Brussels (2007-2011)
- Reviewer for the major research funding agencies from European countries, the United States, and Canada; in Germany for DFG, BMFT, Umweltstiftung, German-Israel-Foundation, VW-Stiftung a.o.
- Editor of one and reviewer for numerous scientific journals

### National (Germany)

- Full member of the National Board of Biological Safety (Zentrale Kommission für die Biologische Sicherheit, Berlin) since 1991 till present
- Full member of the National Committee on Biological Work Place Hazard (UA4; Ausschuss für Biologische Arbeitsstoffe) (1996-2004)
- Member of the Commission on Green Technology of the German Academies of Sciences (2004-2007)

### University

- Commissioner of Biological Safety of the University of Oldenburg (Beauftragter für die Biologische Sicherheit (BBS nach GenTG)), 1990-2007 (emerit.)
- Chairman of the Ethics Commission of the University of Oldenburg (Vorsitzender der Kommission Für Forschungsfolgenabschätzung und Ethik), 1994-2007 (emerit.)
- Chairman of the Commission for Awarding the Doctoral Degree in the Faculty of Biology, 1988-2003
- Dean of the Faculty of Biology, 2001-2003

### **Scientific Publications**

Over 160 publications including books (3), peer reviewed research and review articles (101) and scientific book articles (36), and others (24).

The mean number of authors per publication is 2.9 and W. Wackernagel is the only or the first or last author of most publications (96%).

A few selected articles from over 4 decades of research:

Wackernagel, W. and Winkler, R. (1970) Temperature-sensitive mutants of *Serratia* phage Kappa.  
*Virology* **42**, 777-779.

Wackernagel, W. and Radding, Ch. M. (1974) Formation *in vitro* of infectious joint molecules from Lambda DNA by T4 gene 32 protein.  
*Proc. Natl. Acad. Sci. USA* **71**, 431-435.

Lorenz, M. G. and Wackernagel, W. (1994) Bacterial gene transfer by natural genetic transformation in the environment.  
*Microbiol. Rev.* **58**, 563-602.

Köppen, A., Krobitsch, S., Thoms, B. and Wackernagel, W. (1995) Interaction with the recombination hot spot Chi *in vivo* converts the RecBCD enzyme of *Escherichia coli* into a Chi-independent recombinase by inactivation of the RecD subunit.  
*Proc. Natl. Acad. Sci. USA* **92**, 6249-6253.

de Vries, J. And Wackernagel, W. (2002) Integration of foreign DNA during natural transformation of *Acinetobacter* sp. by homology-facilitated illegitimate recombination.  
*Proc. Natl. Acad. Sci. USA* **99**, 2094-2099.

Thoms, B., Borchers, I. And Wackernagel, W. (2008) Effects of single-strand DNases ExoI, RecJ, ExoVII, and SbcCD on homologous recombination of *recBCD*<sup>+</sup> strains of *Escherichia coli* and roles of SbcB15 and XonA2 mutant enzymes of ExoI.  
*J. Bacteriol.* **190**, 179-192.

Overballe-Petersen, S., Harms, K. et al. (2013) Bacterial natural transformation by highly fragmented and damaged DNA.  
*Proc. Natl. Acad. Sci. USA* **110**, 19860-19865.

