

| Name | Position Title |
|----------------------------------|---|
| BEYER, Peter | Full professor |
| Born: May 9 th , 1952 | Institute for Biology II (Cell Biology) |
| | University of Freiburg, Germany |

EDUCATION/TRAINING

| Institution and Location | Degree | Year(s) | Field of Study |
|---|---------------|----------------|-----------------------|
| University of Freiburg, Germany | Habilitation | 1991 | Cell Biology |
| University of Freiburg, Germany | PhD | 1981 | Biology |
| University of Freiburg and Marburg, Germany | Diplom | 1971-1977 | Biology |

A. Positions and Honours

Employment/Experience

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| 2001-present | Professor (C3) at the Department of Cell Biology and Centre for Applied Biosciences, University of Freiburg |
| 1999-2001 | Akademischer Rat and Apl. Professor, Institute for Biology, Freiburg |
| 1991-1999 | Privatdozent (C2), Institute for Biology II, Freiburg |
| 1986-1991 | Research assistant (C1), Institute for Biology II, Cell Biology, Freiburg |
| 1981-1986 | Postdoctoral fellow, Institute for Biology II, Freiburg |

Honors, Awards and Scholarships

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| 2006 | Nature Biotech Award |
| 2002 | Pro Europa Award |
| 1981 | Summa cum laude, University of Freiburg |

Other Scientific Activities

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| 2005-present | Coordinator of Golden Rice – Project (Bill and Melinda Gates Foundation) |
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B. 10 Selected Publications

Photorhabdus luminescens toxins ADP-ribosylate actin and RhoA to force actin clustering. Lang AE, Schmidt G, Schlosser A, Hey TD, Larrinua IM, Sheets JJ, Mannherz HG, Aktories K (2010). **Science** 327, 1139-1142.

Clostridium difficile toxin CDT induces formation of microtubule-based protrusions and increases adherence of bacteria. Schwan C, Stecher B, Tzivelekidis T, van Ham M, Rohde M, Hardt WD, Wehland J, Aktories K (2009). **Plos Pathogens**, Oct;5(10):e1000626.

Pasteurella multocida toxin activation of heterotrimeric G proteins by deamidation. Orth JH, Preuss I, Fester I, Schlosser A, Wilson BA, Aktories K (2009). **Proc Natl Acad Sci USA** 17, 7179-7184.

Region of elongation factor 1A1 involved in substrate recognition by Legionella pneumophila glucosyltransferase LGT1-identification of LGT1 as a retaining glucosyltransferase. Belyi Y, Stahl M, Sovkova I, Kaden P, Luy B, Aktories K (2009). **J Biol Chem.** 284, 20167-20174.

Activation of Gai and subsequent uncoupling of receptor-G ai signaling by Pasteurella multocida toxin. Orth JHC, Fester I, Preuß I, Agnoletto L, Wilson BA, Aktories K (2008). **J Biol Chem.** 283, 23288-23294.

Human alpha-defensins inhibit Clostridium difficile toxin B. Giesemann T, Guttenberg G, Aktories K (2008). **Gastroenterology** 134, 2049-2058.

Autor-catalytic cleavage of Clostridium difficile toxins A and B depends on a cysteine protease activity. Egerer M, Giesemann T, Jank T, Satchell KJ, Aktories K (2007). **J Biol Chem.** 282, 25314-25321.

Legionella pneumophila glucosyltransferase inhibits host elongation factor 1A. Belyi Y, Niggeweg R, Opitz B, Vogelgesang M, Hippenstiel S, Wilm M, Aktories K (2006). **Proc Natl Acad Sci USA**, 103, 16953-16958.

Cholesterol-dependent pore formation of Clostridium difficile toxin A. Giesemann T, Jank T, Gerhard R, Maier E, Just I, Benz R, Aktories K (2006). **J Biol Chem.** 281, 10808-10815.

Crystal structure of the C3bot-RalA complex reveals a novel type of action of a bacterial exoenzyme. Pautsch A, Vogelgesang M, Trankle J, Herrmann C, Aktories K (2005). **EMBO J.** 24, 3670-3680.