

**Department and function:**

Group Leader, Cell Biology

**Education:**

1991 Dr. rer. nat. in Biology, University of Bonn

**Positions:**

1991-94 Postdoc at EMBL + University of Heidelberg  
1994-97 Postdoc at Yale University School of Medicine  
Since 1997 Group leader at Hannover Medical School

**First name:**

**Rudolf**

**Last name:**

**Bauerfeind**

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**Major research interests:**

*Endocytosis and Signal Transduction in the Nervous System*

The goal of our laboratory is to understand the cellular and molecular basis of communication between neurons in the mammalian nervous system.

To communicate neurons use chemical signals that are stored and transported in membrane bound vesicles.

Endocytosis, a fundamental process common to all eucaryotic cells, plays a central role in the formation of the vesicles. We are studying the function of endocytosis in neuronal signaltransduction and the molecular components which form endocytic transport vesicles in neurons.

**Selected Publications:**

Bauerfeind et al. J. Biol. Chem. 1997; 272: 30984-92  
Bauerfeind et al. Adv. Pharmacol. 1998; 42: 253-7