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## Curriculum Vitae Professor Dr. Hermann Wagner

**Name:** Hermann Wagner  
**Geboren:** 1 February 1953



### Academic and Professional Career

- since 1995 Professor for Zoology / Animal Physiology at RWTH (Rheinisch-Westfaelische Technische Hochschule) Aachen University, Germany
- 1994 / 1995 Heisenberg fellow at the Technical University Munich, Germany
- 1987 - 1994 Senior Researcher at the Max-Planck-Institut for Biological Cybernetics, Tübingen, Germany
- 1985 - 1987 Postdoctoral fellow at the California Institute of Technology, Pasadena, USA
- 1992 Habilitation, University Tübingen, Germany
- 1986 Ph.D., University Tübingen, Germany
- 1974 - 1980 Undergraduate Studies, Universities Ulm, Erlangen und Tübingen, Germany

### **Functions in Scientific Societies and Committees (Selection)**

- 2011 - 2012    President of the German Zoological Society
- 2009            Mitglied im Gesprächskreis Naturwissenschaften / Theologie des Präses der  
Evangelischen Kirche im Rheinland
- 2008            Editorial Board of the Journals of Comparative Physiology A
- 1996            Vertrauensdozent der Friedrich Ebert Stiftung

### **Honours and Awarded Memberships (Selection)**

- since 2014    Member, Akademie der Wissenschaften und der Literatur Mainz
- 2012            German Ornithologists Award
- 2010            Member of the German Academy of Science Leopoldina
- 2001            Member of Academia Europaea

### **Major Scientific Interests**

My primary research focus is on biological information processing. My laboratory studies the behavioral and neural mechanisms underlying orientation and prey capture behavior in barn owls. The barn owl has evolved specializations for sound localization (the ruff, asymmetric ears) and distance perception (frontally oriented eyes) and silent flight. These specializations are reflected in the brain. Understanding the biological mechanisms may help to understand diseases and build biomimetic devices.