

## CURRICULUM VITAE

### Gerda Horneck

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**YEAR OF BIRTH:** 1939

**STATUS:** married with Dr. Folk Horneck, 2 children

### EDUCATION:

1963-1967 Dissertation (Dr. phil. nat.) Microbiology, University Frankfurt  
1968 Diplom (Biology), University Frankfurt

### EXPERIENCE:

1967-1975 Research Scientist, Working Group on Space Biophysics, University Frankfurt  
1975-1981 Research Scientist, DLR Institute of Aerospace Medicine, Köln  
1977-1978 Visiting Scientist, Scripps Clinics, La Jolla, CA, USA  
1981-1993 Leader, Group Exobiology, DLR, Institute of Aerospace Medicine, Köln  
1993-2004 Head, Radiation Biology Section, DLR, Institute of Aerospace Medicine, Köln  
1997-2004 Deputy Director of the Institute of Aerospace Medicine, DLR, Köln  
2004- Contractor to DLR

- Principal investigator of several radiobiological and exobiology experiments in space on Spacelab (SL1 and D2), LDEF, EURECA, FOTON and ISS
- Coordinator of several national and European projects in biological UV-dosimetry, biosensorics and biomarkers and human spaceflight
- Teaching at University Frankfurt; University Kiev; Beihang University, Beijing, China

### SPACE EXPERIMENTS/ACTIVITIES:

- Principal investigator:
  - 1983 Spacelab 1: Microorganisms in Space
  - 1984-1990 LDEF: Exostack, Survival of Bacterial Spores in Space
  - 1992-1993 EURECA 1: Exobiology Unit
  - 1993 Spacelab D2: Experiment UV-Rad
  - 1994 IML 2: Cellular Repair of Radiation Damage, Efficiency and Kinetics
  - 1994-1999 BIOPAN-1, BIOPAN-2 and BIOPAN-3: Survival I and II
  - 2008-2009 EXPOSE-E on ISS: Experiment PROTECT
  - 2009-2011 EXPOSE-R on ISS: Experiment SPORES, coordinator of ROSE consortium
- Co-Investigator:
  - since 1972 Biostack experiments on biological effects of single particles of cosmic radiation
  - 2001-2003 NASA Astrobiology Institute-Project: Life beyond the planet of origin: Microbes in Space
  - 2005-2007 BIOPAN-5, BIOPAN 6: MarsTox, Lichens, Permafrost, Lithopanspermia
  - 2008-2009 EXPOSE-E on ISS: Experiments ADAPT, LIFE

### MEMBERSHIP:

- **European Low Gravity Association** (Member);
- **European Astrobiology Network Association EANA** (National Representative, Councillor 2001-2007, President 2007-2013);
- **International Society for Astrobiology ISSOL** (Councillor 1993-1996, Secretary 1999-2005);
- **Committee on Space Research (COSPAR)**: Chairman of Sub-commission "Radiation Biology (1982-1984), Vice-Chairman (1984-1990) and Chairman (1990-1994) of Commission F "Life Sciences as Related to Space", Chairman of Scientific Program Committee (1990-1992), National Representative (1995-2010), Member of Publication Committee (1996-2002), Member of Award Committee (1998-2002) Member of Bureau (1998-2006), Member of Finance Committee (2006-2010), Chair of nomination Committee (2006-2010);
- **International Academy of Astronautics**, corresponding member (1991-1997), member (since 2000), Vice Chair of Commission II on Life Sciences (2003-2005), member of Board of Trustees (2003-2005); Chair of Commission II on Life Sciences (2005-2007)

### HONORS:

1983 ESA SL1 Team Achievement Award  
1984 NASA Public Service Group Achievement Award to Spacelab PI Team  
1989 DLR Senior Scientist Award

- 1993 DLR Spacelab D2 Achievement Award
- 2005 Fellow of the International Society for Astrobiology (ISSOL)
- 2006 Life Sciences Award of the International Academy of Astronautics
- 2007 Certificate of Appreciation of the International Academy of Astronautics
- 2010 Naming of a new bacterial strain "*Bacillus horneckiae* sp.nov. after Dr. Gerda Horneck, a German space microbiologist who carried out pioneering work in exposing spores to several space and radiation conditions"

**APPOINTMENTS ON COUNCILS AND EDITORIAL BOARDS:**

- 1975-1984 Chairman, National advisory board on biology and medicine in space
- 1978-1981 Member, ESA Life Sciences Working Group
- 1984-1994 Editorial Board, Adv. Space Res.: Life Sciences and Space Research
- 1989-1993 Member, Editorial Board, Origin of Life
- 1994-1997 Chairman, ESA Microgravity Advisory Board
- 1995-2010 Chair of COSPAR Landesausschuss der DFG
- 1998-2002 Member of European Space Science Committee of ESF, chairman of European Life and Physical Sciences Panel
- 2000-2003 Member of ESA Life and Physical Science Advisory Committee
- 2001- Senior editor, Astrobiology Journal
- 2001- Member, Editorial Board, Internat. J. Astrobiology
- 2002- Series editor, Advances in Astrobiology and Biogeophysics, Springer
- 2003- Member of ESA Planetary Protection Working Group
- 2008- Vice-chair of FP7 Space Advisory Group of the European Commission

**Köln, 13 October 2011**

**Dr. Gerda Horneck**

