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## CURRICULUM VITAE:

Surname : Hellingwerf  
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Date of birth : 14th May 1950  
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## Work experience

21-05-1979 : PhD in Biochemistry, University of Amsterdam  
1-11-'78 to 31-12-'87 : Assistant/associate Professor in Microbiology at the University of Groningen  
1-01-'88 to 14-08-'15 : Professor in General Microbiology at the University of Amsterdam  
1-11-'94 to 14-08-'15 : Visiting professor at the University of Buenos Aires (bi-annual visits for lecturing in microbial physiology).  
1-09-'02 to 1-11-'02 : Visiting professor at the 'Ecole Normale Superior', Paris, France  
1-05-'99 to 1-07-'06 : Member of the board of the Life & Earth Sciences Research Council of the Netherlands Organization for basic Research (ALW/NWO)  
1-05-'01 to 1-05-'04 : Member of the Board of the Dutch Society for Biochemistry and Molecular Biology  
1-01-'02 to 1-01-'08 : Chairman of the Department of Chemistry, University of Amsterdam  
1-11-'04 to 1-11-'06 : Director of the Research School BioCentrum Amsterdam  
1-05-2004 to 1-05-2014 : Honorary professor in "Physics of photoreceptor proteins", Department of Biophysics, FEW, Free University, Amsterdam

## Research interests:

-Microbial physiology: Application of synthetic biology to improve our understanding of biological energy generation through catabolic fluxes and their regulation, including their regulation through sensory proteins, in particular photoreceptor proteins.

- Sustainability: Applications of microbial physiology are pursued through projects on the production of solar biofuel via the use of cyanobacteria according to the concept of 'direct conversion'.

## Scientific adviser of

- # Consortium f. elektrochemische Industrie (Munic, FRG); subject: photoactive proteins.
- # Nutricia Research BV (Zoetermeer, Netherlands); subject: General microbiology.
- # Genecore, Delft; subject: industrial enzymes
- # Heineken Technical Services: photochemistry
- # RIKILT-DLO, external PhD supervisor for project on G-protein coupled receptors
- # BABiotech, Buenos Aires: subject: (bio)catalysis

Member of the Scientific Advisory Board of the Delft-Leiden Research School on Biotechnology (1996 – 2004)

Member of the International Steering Committee of the International conference on Photosynthetic Prokaryotes (1994 – 2003)

Member of the Organizing Committee of the International Conference *Acinetobacter* 2000, Noordwijkerhout, 200 participants

Member of the Organizing Committee of four Euro Conferences on Intercellular and Intracellular Signalling in Bacteria (held in Paris, 1999; Cork, 2000; Obernai, 2002; and Barcelona, 2004 & 2006; **co-chair** of the Barcelona meeting in 2004 and **chair** of the meeting in 2006. These meetings had ~200 participants each)

Chairman of the organizing committee of the bi-annual meeting of the Section on Molecular and Cellular Biophysics of the Dutch National Society for Biophysics, Lunteren, 1998, 140 participants; member of the committee for 'Lunteren-2000'.

Organiser of the KNAW Colloquium on "Photoreceptor proteins: Structure, photochemistry & dynamics", Amsterdam, November 2000.

Chairman of the NVVM-committee for the nomination of the "Kluyverprijs 1996" and the KNCV-committee for the nomination of the 1999 annual 'Gold-Medal'

Co-chairman of the IVth Gordon Research conference on Photosensory Receptors & Signal Transduction, May 2006, Il Ciocco, Italy

Co-organiser of the KNAW Colloquium on “Dynamical events in biophysics and biochemistry: New approaches”, Amsterdam, November 2005.

Chairman of the Vth Gordon Research conference on Photosensory Receptors & Signal Transduction, January 2008, Ventura, CA, USA

Coordinator (together with Prof. dr. G. Eggink, WUR) of Theme 2 (“the cellular level”) of the 45 MEu FES programme: “Towards BioSolar Cells” (2010-2016)

Organiser of the Lorentz Conference “Photosynthesis: Plug & Play?”, Leiden, The Netherlands, August 2016.

### **Functions in the Dutch Science Research Council (NWO):**

- *Coordinator of the SLW research-program on the “Phospho-neural network of Escherichia coli” (1 pd, 3 OIO’s).*
- *Member of the “Verkenningcommissie: Fysica van Leven” (founded by FOM/SLW).*
- *Member of the “National Discussion Panel on Nanotechnology” (founded by the NVI).*
- *Member of the advisory committee to the board of Chemical Sciences of NWO on ‘Biological Chemistry’ (2002-2005)*
- *Member of the Board of the Life Sciences (NWO/ALW) from 2000 to 2006*
- *Member of the evaluation committee “NWO-Groot” (2009 to 2015)*

### **Author of:**

- more than 350 research papers in a wide range of international microbiological, biochemical and biophysical peer-reviewed scientific journals; these papers have been cited more than 19,000 times in peer-reviewed research papers (h-index: 76 as of 01/06/2018). For a complete overview see:  
<https://scholar.google.nl/citations?user=5UBFHtQAAAAJ&hl=nl&oi=ao>
- seven patents.

**Memberships** (a.o.) : American Society for Microbiology  
: Biophysical Society  
: Royal Dutch Chemical Society (includes Biochemistry)  
: Dutch Society for Microbiology  
: Dutch Biophysical Society

Founder, CEO (2008 – 2011), and CSO (2011 – present) of “**Photanol B.V.**”