CURRICULUM VITAE

Jan-Willem de Gier, Ph.D./Docent

Date of birth 30-6-1967, Amsterdam, the Netherlands

Professional preparation
1985-1991: Doctorandus (M.Sc.), Microbiology, Biochemistry, Vrije Universiteit, Amsterdam, the Netherlands.

1991-1995: Ph.D. student with Dr. John van der Oost and Prof. Adriaan Stouthamer at the Department of Molecular and Cellular Biology, Microbial Physiology, Vrije Universiteit, Amsterdam, the Netherlands.

1996-1998: Post-doctoral fellow (supported by a TMR/EU fellowship to JWdG) with Prof. Gunnar von Heijne at the Department of Biochemistry, Stockholm University, Stockholm, Sweden.

Appointments
1999-2002: Assistant Professor (position supported by the Swedish National Science Research Council) at the Department of Biochemistry and Biophysics, Stockholm University, Stockholm, Sweden.

2003-2005: Associate Professor (position supported by the Wallenberg Foundation/) Stockholm University, Stockholm, Sweden).

2006-present: Associate Professor at the Department of Biochemistry and Biophysics, Stockholm University, Stockholm, Sweden. Currently JWdG holds a position as *'Rådsforskare i Prokaryot molekylärbiologi*'. This is a position for 6 years supported by the Swedish Natural Science Research Council (VR)). JWdG is since February 2008 'universitetslektor' at Stockholm University (i.e., has a permanent position).

JWdG's group currently hosts 4 Ph.D. students (so far, JWdG guided 4 students to their Ph.D. and supervised 3 post-docs).

Distinctions
EMBO Young Investigator (2000/1).
Sven och Ebba-Christina Hagbergs Award (2001).

Professional service
Reviewing for various international journals and of research proposals for The Netherlands Organization for Scientific Research, The Israel Science Foundation (ISF), The Wellcome Trust and EMBO short term and EMBO long term fellowships. Member of various Ph.D. examination committees.

Meetings
Has attended ~55 international meetings, and has been 32 times invited speaker.

Collaborations
Membrane protein assembly/characterization of the Hbp autotransporter: Dr. Joen Luirink (Vrije Universiteit, the Netherlands), Proteomics: Dr. Klaas-Jan van Wijk (Cornell University, USA), Bioinformatics: Prof. Gunnar von Heijne (Stockholm University, Sweden), Membrane protein characterization: Dr. Dirk Jan Slotboom (University of Groningen, the Netherlands).

Publications
51 publications in refereed journals

10 Publications Jan-Willem de Gier

1. Biogenesis of inner membrane proteins in *Escherichia coli.*
J. Luirink, E. Houben, G. von Heijne and J.W.L. de Gier.
Annual Reviews of Microbiology (2005) 59, 329-355.

2. Defining the role of *Escherichia coli* chaperone SecB using comparative proteomics.
L. Baars, J. Ytterberg, L., D. Drew, S. Wagner, C. Thilo, K.J. van Wijk and J.W.L. de Gier.
Journal of Biological Chemistry (2006) 281, 10024-10034.

3. Optimizing membrane protein overexpression and purification using GFP-fusions.
D. Drew, M. Lerch, E. Kunji, D.J. Slotboom and J.W.L. de Gier.
Nature Methods (2006) 3, 303-313.

4. Rationalizing membrane protein overexpression.
S. Wagner, M. Lerch-Bader, D. Drew and J.W.L. de Gier.
Trends in Biotechnology (2006) 8, 364-371.

5. Limited tolerance towards folded elements during secretion of the autotransporter Hbp
W.S.P. Jong, C.M. ten Hagen-Jongman, T. den Blaauwen, D.J. Slotboom, J.R.H. Tame, D. Wickström, J.W.L. de Gier, B.R. Otto and J. Luirink.
Molecular Microbiology (2007) 63, 1524-36.

6. Consequences of membrane protein overexpression in *Escherichia coli.*
S. Wagner, L. Baars, A.J. Ytterberg, A. Klußmeier, C.S. Wagner, O. Nord, P.Å. Nygren, K.J. van Wijk, J.W. de Gier.
Molecular and Cellular Proteomics (2007) 9, 1527-50.

7. Detection of cross-links between FtsH, YidC, HflK/C suggests a linked role for these proteins in quality control upon insertion of bacterial inner membrane proteins.
E. van Bloois, H.L. Dekker, L. Fröderberg, E.N.G. Houben, M.L. Urbanus, C.G. de Koster, J.W. de Gier, and J. Luirink.
FEBS Letters (2008) 582: 1419-24.

8. Effects of SecE depletion on the inner and outer membrane proteomes of *Escherichia coli*.
L. Baars, S. Wagner, D. Wickström, M. Klepsch, A.J. Ytterberg, K.J. van Wijk, J.W. de Gier.
Journal of Bacteriology (2008) 190: 3505-25.

9. Biogenesis of MalF and the $MalFGK_2$ maltose transport complex in *E. coli* requires YidC.
S. Wagner, O. Pop, G.J. Haan, L. Baars, G. Koningstein, M.M. Klepsch, P. Genevaux, J. Luirink, J.W. de Gier.
Journal of Biological Chemistry (2008) in press.

10. Tuning *Escherichia coli* for membrane protein overexpression.
S. Wagner, M. Klepsch, S. Schlegel, A. Appel, R. Draheim, M. Tarry, M. Högbom, K. J. van Wijk, D.J. Slotboom, J.O. Persson, J.W. de Gier.
Proceedings of the National Academy of Sciences USA (2008), (2008) 38:14371-6.