

Hanspeter Herzl (* 1957)



Personal details

Date of birth July 13, 1957
Place of birth Güstrow, Germany
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Title/Position Prof. Dr.

Education

1990 Habilitation, Humboldt-Universität
1984-1986 PhD in Theoretical physics (degree Dr. rer. nat.), Humboldt-Universität
1979-1984 Studies in Physics (degree: Diploma), Humboldt-Universität

Career/Employment

since 2003 Professor of Theoretical Biology, Charité
1996-2003 Professor of Molecular and Cellular Evolution, Humboldt-Universität
1993-1996 Heisenberg Fellow, Technische Universität Berlin & University of Iowa, USA
1986-1993 Research Assistant, Humboldt-Universität, Moscow University, University Bremen

Research Fields

- i) Main field: Theoretical Biology
- ii) Other fields: Nonlinear Dynamics, Bioinformatics, Gene Regulation
- iii) Current research interest: Generation and synchronization of circadian rhythms

Honours, Awards, Grants, Fellowships, Memberships in Professional Societies

Grants since 2002 Board Member of SFB 618 "Theoretical Biology" (DFG)
since 2009 Coordinator "ColoNet" (BMBF, with Sers)
2007-2009 Coordinator of IRTG "Genomics and Systems Biology" (DFG)
1996 Co-founder of the Institute for Theoretical Biology
Fellowship 1993-1996 Heisenberg Fellowship of the DFG
Award 1986 Humboldt-prize for doctoral thesis

Collaborative Research Projects (selection)

Funding organisation	Deutsche Forschungsgemeinschaft
Project title	SFB 618, projects A4 and B7
Function	Board member
Speaker University	Humboldt-Universität
Project Period	2002-2013

Funding organisation	BMBF
Project title	ColoNet
Function	Coordinator (together with Christine Sers)
Speaker University	Charité
Project Period	2009-2012

Funding organisation	EU
Project title	NoE Biosimulation
Function	Principal investigator
Speaker University	DTU Lyngby, Denmark
Project Period	2004-2009

Experiences in Doctoral Education

Number of PhD Students	24
Number of MSc Students	27

Selected Publications

1. U. Abraham, A. Granada, P.O. Westermark, M. Heine, A. Kramer, and H. Herzel (2010) Coupling governs entrainment range of circadian clocks. *Mol. Syst. Biol.*, in press.
2. S.Bernard, B.Cajavec Bernard, F.Levi, and H.Herzel (2010) Tumor growth rate determines the timing of optimal chronomodulated treatment schedules. *PLoS Computational Biology*, 6:e1000712.
3. P.O.Westermark, D.K.Welsh, H.Okamura, and H.Herzel (2009) Quantification of circadian rhythms in single cells. *PLoS Computational Biology*, 5:e1000580.
4. K.Bozek, A.Relogio, S.M.Kielbasa, M.Heine, C.Dame, A.Kramer, and H.Herzel (2009) Regulation of clock-controlled genes in mammals. *PLoS ONE*, 4:e4882
5. M.Futschik and H.Herzel (2008) Are we overestimating the number of cell-cycling genes? The impact of background models on time series analysis. *Bioinformatics*, 24, 1063-1069.
6. C.P.Elemans, R.Zaccarelli, and H. Herzel (2008). Biomechanics and control of vocalization in a non-songbird. *J. Royal Society Interface*, 5:691-703.
7. S.A.Brown, D.Kunz, A.Dumas, P.O.Westermark, K.Vanselow, A.Tilmann-Wahnschaffe, H.Herzel, and A.Kramer (2008). Molecular insights into human daily behavior. *Proc. Nat. Acad. Sci. USA*, 105, 1602-1607.
8. S.Legewie, N.Blüthgen, and H.Herzel (2006) Mathematical Modeling Identifies Inhibitors of Apoptosis as Mediators of Positive Feedback and Bistability. *PLoS Computational Biology*, 2:e120.
9. D.Gonze, S.Bernard, C.Waltermann, A.Kramer and H.Herzel (2005). Spontaneous synchronization of coupled circadian oscillators. *Biophysical J.*, 89, 120-129.
10. N.Bluehgen, S.M.Kielbasa, and H.Herzel. Inferring combinatorial regulation of transcription in silico. *Nucleic Acids Research*, 33, 272-279 (2005).