Dr. Jan Ellenberg

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# **CURRICULUM VITAE**

2006 - present	Coordinator and Sen	ior Scientist,	Gene Exp	oression	Unit, EMBL.		
2004 - present	Coordinator, EMBL Centre for Molecular and Cellular Imaging.						
1999 - present	Interdisciplinary G	Group Lea	der, G	ene	Expression	and	Cell
	Biology/Biophysics P	rogrammes,	EMBL, He	eidelber	g, Germany.		
1998 - 1999	Postdoctoral research	h at the NIH,	lab of Dr.	. Jennife	r Lippincott-So	chwartz.	
1995 - 1998	Ph.D. research at th	ne National I	nstitutes	of Heal	th (NIH), Beth	iesda, l	JSA,
	laboratory of Dr. Jenr	nifer Lippinco	ott-Schwar	rtz.			

COORDINATING FUNCTIONS					
2005 - present	Coordinator of Federal Ministry of Education and Research (BMBF) grant within the National Genome Research Network (NGFN-2) "Genome wide RNAi screening using cell arrays".				
2004 - present	Local Coordinator of EC Integrated Project MitoCheck "Regulation of Mitosis by Phosphorylation - A Combined Functional Genomics, Proteomics and Chemical Biology Approach", framework 6, priority 1: Life Sciences, Genomics and Biotechnology for Health, FP6-503464.				
•	Coordinator EMBL Centre for Molecular and Cellular Imaging.				
2004	Minisymposium chair "Chromatin Structure and Functional Organization of the Nucleus", 44th American Society for Cell Biology Meeting, Washington D.C., USA.				
2003	Organizer, EMBL Mini-Symposium "Functional Organization of the Nucleus", EMBL, Heidelberg, Germany.				
2001	Organizer, EMBO Young Investigator Programme Mini Symposium on "Fluorescence Microscopy", EMBL, Heidelberg, Germany. Organizer, 1 <sup>st</sup> Interntional Meeting & Workshop on "Advanced Light Microscopy", Santa Maria Imbaro (Chieti), Italy.				

### **HONORS**

2004	Walter Flemming Medal of the German Society of Cell Biology (DGZ)
2004	Summer Research fellow, MBL, Woods Hole, MA, USA.
2004	ELSO Early Career Award, European Life Scientist Organisation, ELSO
2002	Nikon Fellow, Marine Biological Laboratory (MBL), Woods Hole, MA, USA
1998-1999	Visiting Fellow Award of the Fogarty International Center, NIH, Bethesda
1998	Fellows Award for Research Excellence, NIH.
1995-1998	Predoctoral fellowship of the Boehringer Ingelheim Fonds, Stuttgart

#### FIELDS OF INTEREST

Cell biology; cell division (mitosis and meiosis); nuclear structure; nuclear envelope; nuclear transport; chromosome condensation and segregation; nuclear (dis)assembly; live cell imaging.

#### **CURRENTLY FUNDED PROJECTS**

German Research Council (DFG) grant within in the priority programme "dynamics of cellular membranes and their exploitation by viruses" (SPP 1175), EL 246/3-1.

Quantitative Analysis of the Structural Dynamics of Mitotic Chromosomes in Live Mammalian CellsNetwork (NGFN-2) 01GR0403 "Genome wide RNAi screening using cell arrays".

European Science Foundation ESF 03-DYNA-F-29 network grant "The control of chromosome structure by cohesin/condensin complexes". Nationally funded through the German Research Council, DFG EL 246/2-1/2.

EC Integrated Project MitoCheck "Regulation of Mitosis by Phosphorylation - A Combined Functional Genomics, Proteomics and Chemical Biology Approach", framework 6, priority 1: Life Sciences, Genomics and Biotechnology for Health, FP6-503464.

### **PUBLICATIONS (10 selected recent publications):**

Gerlich, D., Hirota, T., Koch, B., Peters, J.-M. and <u>J. Ellenberg</u>. 2006. Condensin I stabilizes chromosomes mechanically through a dynamic interaction in live cells. **Curr Biol.** in press.

Lenart, P., C.P. Bacher, N. Daigle, A.R. Hand, R. Eils, M. Terasaki, and <u>J. Ellenberg</u>. 2005. A contractile nuclear actin network drives chromosome congression in oocytes. **Nature**. 436:812-8.

Rabut, G., V. Doye, and <u>J. Ellenberg</u>. 2004. Mapping the dynamic organization of the nuclear pore complex inside single living cells. **Nat Cell Biol.** 6:1114-21.

Rabut, G., and <u>J. Ellenberg</u>. 2004. Automatic real-time three-dimensional cell tracking by fluorescence microscopy. **J Microsc.** 216:131-7.

Conrad, C., H. Erfle, P. Warnat, N. Daigle, T. Lorch, <u>J. Ellenberg</u>, R. Pepperkok, and R. Eils. 2004. Automatic identification of subcellular phenotypes on human cell arrays. **Genome Res.** 14:1130-6.

Gerlich, D., J. Beaudouin, B. Kalbfuss, N. Daigle, R. Eils, and <u>J. Ellenberg</u>. 2003. Global Chromosome Positions Are Transmitted through Mitosis in Mammalian Cells. **Cell**. 112:751-64.

Lenart, P., G. Rabut, N. Daigle, A.R. Hand, M. Terasaki, and <u>J. Ellenberg</u>. 2003. Nuclear envelope breakdown in starfish oocytes proceeds by partial NPC disassembly followed by a rapidly spreading fenestration of nuclear membranes. **J Cell Biol**. 160:1055-68.

Gerlich, D., and <u>J. Ellenberg</u>. 2003. 4D imaging to assay complex dynamics in live specimens. **Nat Cell Biol.** Suppl:S14-9.

Beaudouin, J., D. Gerlich, N. Daigle, R. Eils, and <u>J. Ellenberg</u>. 2002. Nuclear envelope breakdown proceeds by microtubule-induced tearing of the lamina. **Cell**. 108:83-96.

Daigle, N., J. Beaudouin, L. Hartnell, G. Imreh, E. Hallberg, J. Lippincott-Schwartz, and <u>J. Ellenberg</u>. 2001. Nuclear pore complexes form immobile networks and have a very low turnover in live mammalian cells. **J Cell Biol.** 154:71-84.

### **EXPERIENCE IN THE SUPERVISION OF DOCTORAL CANDIDATES**

Member of numerous thesis and thesis advisory committees

## **SUPERVISED DISSERTATIONS (last 5 years)**

- Felipe Mora-Bermúdez, PhD (2006) Quantitative analysis of the structural dynamics of mitotic chromosomes in live mammalian cells <u>Current occupation:</u> unknown
- Péter Lénárt, PhD (2004) The mechanism of nuclear envelope breakdown and chromosome congression during meiotic maturation of starfish oocytes

  <u>Current occupation:</u> unknown
- Gwenaël Rabut, PhD (2004) Dynamic organization of nuclear pore complexes <u>Current occupation:</u> unknown
- Joël Beaudouin, PhD (2003) Structural and molecular dynamics of nuclear proteins revealed by fluorescence microscopy

  <u>Current occupation:</u> unknown