

## *Curriculum Vitae*

**Rainer Pepperkok** Dr. rer. Nat.  
Date of birth: 7 September 1961

### **Employment and research experience**

2019-present	Director Scientific Core Facilities and Scientific Services, EMBL Heidelberg
2014-2019	Head of Core Facilities Unit EMBL, Heidelberg
1998-present	Teamleader at EMBL Heidelberg, Cell Biology Cell Biophysics Unit, Head of the Advanced Light Microscopy Facility
1996-1998	Head of light microscopy at the Imperial Cancer Research Fund, London
1995-1996	University research assistant in the group of Prof. Dr.T. Kreis (University of Geneva)
1993-1995	Recipient of an EMBO long-term postdoctoral research fellowship in the group of Prof. Dr. T. Kreis (University of Geneva, Switzerland).
1987-1993	Staff member at EMBL Heidelberg, group of Dr. W. Ansorge.

### **Education**

1992	PhD in Cell Biology at the University of Kaiserslautern.
1989-1992	PhD work at the German Cancer Research Center, Heidelberg.
1987	Diplom in applied physics at the University of Heidelberg
1986-1987	Diplomarbeit at the European Molecular Biology Laboratory (EMBL) in the Group of Dr. W. Ansorge
1981-1987	Student of Ruprecht-Karls University of Heidelberg, Faculties of Physics and Mathematics.

## Top-10 selected publications

- Girod, A., Storrie, B., Simpson, J.C., Johannes, L., Goud, B., Roberts, L.M., Lord, J.M., Nilsson, T. and **Pepperkok, R.** (1999). Evidence for a COPI independent transport route from the Golgi complex to the endoplasmic reticulum. *Nature Cell Biol.*, 1, 423- 430.
- Simpson, J.C., Wellenreuther, R., Poustka, A., **Pepperkok, R.**, and Wiemann, S. (2000). Systematic sub-cellular localization of novel proteins identified by large-scale cDNA sequencing. *EMBO Reports*, 1, 287-292.
- Liebel U, Starkuviene V, Erfle H, Simpson JC, Poustka A, Wiemann S, **Pepperkok R.** 2003. A microscope-based screening platform for large-scale functional protein analysis in intact cells. *FEBS Lett.* 20: 394-398.
- Bartz F, Kern L, Erz D, Zhu M, Gilbert D, Meinhof T, Wirkner U, Erfle H, Muckenthaler M, **Pepperkok R**, Runz H. 2009. Identification of cholesterol-regulating genes by targeted RNAi screening. *Cell Metab.* 10:63-75.
- Neumann B, Walter T, Hériché JK, Bulkescher J, Erfle H, Conrad C, Rogers P, Poser I, Held M, Liebel U, Cetin C, Sieckmann F, Pau G, Kabbe R, Wünsche A, Satagopam V, Schmitz MH, Chapuis C, Gerlich DW, Schneider R, Eils R, Huber W, Peters JM, Hyman AA, Durbin R, **Pepperkok R**, Ellenberg J. (2010) Phenotypic profiling of the human genome by time-lapse microscopy reveals cell division genes. *Nature* 464:721-727.
- Conrad C, Wünsche A, Tan TH, Bulkescher J, Sieckmann F, Verissimo F, Edelstein A, Walter T, Liebel U, **Pepperkok R**, Ellenberg J. (2011). Micropilot: automation of fluorescence microscopy-based imaging for systems biology. *Nat Methods.* 8, 246-9.
- Almaça J, Faria D, Sousa M, Uliyakina I, Conrad C, Sirianant L, Clarke LA, Martins JP, Santos M, Heriché JK, Huber W, Schreiber R, **Pepperkok R**, Kunzelmann K, Amaral MD. 2013. High-content siRNA screen reveals global ENaC regulators and potential cystic fibrosis therapy targets. *Cell.* 12;154(6):1390-400.
- Scharaw S, Iskar M, Ori A, Boncompain G, Laketa V, Poser I, Lundberg E, Perez F, Beck M, Bork P, **Pepperkok R.** 2016. The endosomal transcriptional regulator RNF11 integrates degradation and transport of EGFR. *J Cell Biol.* 215:543-558.
- Khan MM, Poeckel D, Halavatyi A, Zukowska-Kasprzyk J, Stein F, Vappiani J, Sevin DC, Tischer C, Zinn N, Eley JD, Gudmann NS, Muley T, Winter H, Fisher AJ, Nanthakumar CB, Bergamini G, **Pepperkok R.** 2021. An integrated multi-omic and quantitative label-free microscopy-based approach to study pro-fibrotic signalling in ex vivo human precision-cut lung slices. *Eur Respir J.* Eur Respir J. 58(1):2000221. doi: 10.1183/13993003.00221-2020.
- Zimoń M, Huang Y, Trasta A, Halavatyi A, Liu JZ, Chen CY, Blattmann P, Klaus B, Whelan CD, Sexton D, John S, Huber W, Tsai EA, **Pepperkok R**, Runz H. 2021. Pairwise effects between lipid GWAS genes modulate lipid plasma levels and cellular uptake. *Nat Commun.* 12(1):6411. doi: 10.1038/s41467-021-26761-3. PMID: 34741066; PMCID: PMC8571362.