

# Curriculum Vitae

**Name:** Alexander Dammermann  
**Address:** Max F. Perutz Laboratories  
Dr. Bohr-Gasse 9/4  
A-1030 Vienna  
e-mail: alex.dammermann@univie.ac.at  
Web site: www.mfpl.ac.at/dammermann  
Phone: +43 1 4277 54681  
Fax: +43 1 4277 854681

**Date Of Birth:** 10th April, 1975

**Nationality:** German

## Education:

1998-2003 Ph.D., University of Edinburgh, UK  
1994-1997 B.A. Natural Sciences (1st Class), University of Cambridge, UK,  
M.A. (2001)

## Research Record:

Since 2015 Associate Professor, University of Vienna, Austria  
2014-2015 Assistant Professor, University of Vienna, Austria  
2010-2014 Junior Group Leader at Max F. Perutz Laboratories, Vienna, Austria  
2003-2010 Post-doctoral fellow in laboratory of Karen Oegema, Ludwig Institute  
for Cancer Research, San Diego, CA  
1999-2003 Ph.D. student in laboratory of Andreas Merdes, Wellcome Trust  
Centre for Cell Biology, University of Edinburgh, UK  
1998-1999 Rotation projects in laboratories of Austin Smith, William C. Earnshaw,  
and Karen Chapman, University of Edinburgh, UK  
1997-1998 Visiting student in laboratory of Moshe Oren, Weizmann Institute of  
Science, Israel  
1996-1997 Undergraduate student in laboratory of Sir John B. Gurdon, University  
of Cambridge, UK  
1996 Summer student in laboratory of William C. Earnshaw, University of  
Edinburgh

### **Awards And Prizes:**

- 2012 START award, Austrian Science Fund (FWF)
- 2002 'UK Young Cell Biologist of the Year' award, British Society for Cell Biology
- 1997 Natural Sciences prize, Peterhouse, University of Cambridge
- 1995 Scholar of Peterhouse, University of Cambridge, Senior Scholar (1996)

### **Presentations At International Conferences:**

- 2016 GDR CIL Symposium on Model Organisms for Cilia Investigations, Institut Imagine, Paris, France (Invited speaker)
- 2015 FASEB Summer Research Conference "Biology of Cilia and Flagella", Snowmass, CO
- 2014 EMBO Conference "Centrosomes and Spindle Pole Bodies", Lisbon, Portugal (Invited speaker)
- 2014 Bayer Life Science Workshop "Centrosome Function: Opportunities for Cancer Treatment", Berlin, Germany (Invited speaker)
- 2013 FASEB Summer Research Conference "Biology of Cilia and Flagella", Niagara Falls, NY (Invited speaker)
- 2009 ASCB Annual meeting, San Diego, CA
- 2008 ASCB Annual meeting, San Francisco, CA
- 2008 EMBO/EMBL Conference "Centrosomes and Spindle Pole Bodies, Heidelberg, Germany
- 2007 ASCB Annual meeting, Washington DC
- 2007 FASEB Summer Research Conference "Mitosis: Spindle Assembly and Function", Indian Wells, CA
- 2006 ASCB Annual meeting, San Diego, CA
- 2005 ASCB Annual meeting, San Francisco, CA
- 2004 ASCB Annual meeting, Minisymposium: "Cytoskeletal Dynamics", Washington DC
- 2004 6th International workshop on Chromosome Segregation and Aneuploidy, Cortona, Italy
- 2003 ASCB Annual meeting, San Francisco, CA
- 2002 ASCB Annual meeting, San Francisco, CA

- 2002 EMBO/EMBL Conference “Centrosomes and Spindle Pole Bodies”,  
Heidelberg, Germany
- 2002 BSCB Annual meeting, York, UK
- 2001 ASCB Annual meeting, Washington DC
- 2001 5th International workshop on Chromosome Segregation and  
Aneuploidy, Chartres, France
- 2000 ASCB Annual meeting, San Francisco, CA

**Invited Seminars:**

- 2016 Instituto de Investigação e Inovação em Saúde, Porto, Portugal
- 2015 Institut Jacques Monod, Paris
- 2013 Biology Department, UNC Chapel Hill, NC
- 2012 Ludwig Institute for Cancer Research, San Diego, CA
- 2012 Gulbenkian Institute, Lisbon, Portugal
- 2009 Max F. Perutz Laboratories, Vienna, Austria
- 2009 MRC Laboratory of Molecular Biology, Cambridge, UK
- 2009 MRC Human Genetics Unit, Edinburgh, UK
- 2009 Department of Biochemistry, Oxford, UK
- 2009 Oklahoma Medical Research Foundation, Oklahoma City, OK
- 2009 Gulbenkian Institute, Lisbon, Portugal
- 2009 Department of Molecular Biology, Princeton, NJ
- 2008 MPI-CBG, Dresden, Germany
- 2005 MCDB, University of Colorado Boulder, CO

**Funding:**

- 2012-2018 START award “Molecular Analysis of Centriole Assembly and  
Function”, Austrian Science Fund (FWF) #Y597-B20, 1.2m Euro
- 2012-2019 Doctoral program (DK) “Chromosome Dynamics”, Austrian Science  
Fund (FWF) #W1238-B20, 300k Euro (co-investigator)
- 2012-2015 Project grant “Centriole assembly and function in ciliogenesis”,  
Austrian Science Fund (FWF) #P24296-B20, 397k Euro (terminated  
2012 with START award)

**Teaching:**

- Since 2015 Co-organizer, VBC Summer School for pre-doctoral students
- Since 2012 Participant, Graduate program (DK) Chromosome Dynamics
- Since 2010 Lectures and practical courses at University of Vienna:  
VO Cell Biology (Bachelor's lecture series)  
UE Bioinformatics (1-week Bachelor's practical course)  
UE Molecular Biology (2-week Bachelor's practical course)  
UE Advanced Genetics, *C. elegans* (2-week Master's practical course),  
PS Advanced Biochemistry (Journal club, Master's students)
- 2006-2008 Teaching assistant, *C. elegans* course at Cold Spring Harbor Laboratory, NY

**Mentoring:**

- Since 2010 Independent group leader at Max F. Perutz Laboratories, managing team currently composed of 3 post-docs, 3 Ph.D. students and 2 technicians
- 2004-2010 Supervisor for 2 undergraduate students on multi-year projects in post-doctoral lab

**Other Professional Activities:**

- Reviewer for journals including Current Biology, Developmental Cell, eLIFE, EMBO Journal, Journal of Cell Biology, Molecular Biology of the Cell, Nature Cell Biology, PLOS Biology and PLOS Genetics, as well as funding agencies including ERC and HFSP
- Member of American Society for Cell Biology since 2002
- Member of MFPL Faculty Advisory Board (2012-2013), Zentrumskonferenz for Center of Molecular Biology, University of Vienna (2013-2014)
- MFPL representative on VBCF Electron Microscopy and VDRC user committees

# Publications

## Research articles:

1. Molodtsov, M.I., Mieck, C., Dobbelaere, J., Dammermann, A., Westermann, S., and A. Vaziri. (2016). Parallel microtubule growth by force-induced directional switch of kinesin-14. *Cell. In press.*

\*2. Wei, Q., Zhang, Y., Schouteden, C., Zhang, Y., Zhang, Q., Dong, J., Wonesch, V., Ling, K., Dammermann, A., and J. Hu. (2016). The hydrolethalus syndrome protein HYLS-1 regulates formation of the ciliary gate. *Nat Commun.* 7:12437. DOI 10.1038/ncomms12437

3. Kodani, A., Yu, T.W., Johnson, J.R., Jayaraman, D., Johnson, T.L., Al-Gazali, L., Sztriha, L., Partlow, J.N., Kim, H., Krup, A.L., Dammermann, A., Krogan, N., Walsh, C.A., and J.F. Reiter. (2015). Centriolar satellites assemble centrosomal microcephaly proteins to recruit CDK2 and promote centriole duplication. *eLife* 4. DOI 10.7554/eLife.07519

\*4. Laos, T., Cabral, G., and A. Dammermann. (2015). Isotropic Incorporation Of SPD-5 Underlies Centrosome Assembly In *C. elegans*. *Curr Biol.* 25, R648-649. DOI 10.1016/j.cub.2015.05.060

\*5. Schouteden, C.\*, Serwas, D.\*, Palfy, M., and A. Dammermann. (2015). The Ciliary Transition Zone Functions In Cell Adhesion But Is Dispensable for Axoneme Assembly in *C. elegans*. *J Cell Biol.* 210:35-44. DOI 10.1083/jcb.201501013 (\*authors contributed equally)

\*6. Cabral G., S. Sanegre Sans, C.R. Cowan, and A. Dammermann. 2013. Multiple mechanisms contribute to centriole separation in *C. elegans*. *Curr Biol.* 23:1380-7. DOI 10.1016/j.cub.2013.06.043

7. Qiao R., G. Cabral, M.M. Lettman, A. Dammermann, and G. Dong. 2012. SAS-6 coiled-coil structure and interaction with SAS-5 suggest a regulatory mechanism in *C. elegans* centriole assembly. *EMBO J.* 31:4334-47. DOI 10.1038/emboj.2012.280

\*8. Dammermann, A.\*, H. Pemble\*, B.J. Mitchell, I. McLeod, J.R. Yates III, C. Kintner, A. Desai, and K. Oegema. 2009. The Hydrolethalus syndrome protein HYLS-1 links core centriole structure to cilia formation. *Genes Dev.* 23:2046-2059. DOI 10.1101/gad.1810409 (\*authors contributed equally)

9. Essex, A., A. Dammermann, L. Lewellyn, K. Oegema, and A. Desai. 2009. Systematic analysis in *Caenorhabditis elegans* reveals that the spindle checkpoint is composed of two largely independent branches. *Mol. Biol. Cell.* 20:1252-1267. DOI 10.1091/mbc.E08-10-1047
- \*10. Dammermann, A., P.S. Maddox, A. Desai, and K. Oegema. 2008. SAS-4 is recruited to a dynamic structure in newly forming centrioles that is stabilized by the gamma-tubulin-mediated addition of centriolar microtubules. *J. Cell Biol.* 180:771-785. DOI 10.1083/jcb.200709102
11. Portier, N., A. Audhya, P.S. Maddox, R.A. Green, A. Dammermann, A. Desai, and K. Oegema. (2007). A microtubule-independent role for centrosomes and Aurora A in nuclear envelope breakdown. *Dev. Cell* 12:515-529. DOI 10.1016/j.devcel.2007.01.019
12. Schlaitz, A.L., M. Srayko\*, A. Dammermann\*, S. Quintin\*, N. Wielsch, I. MacLeod, Q. de Robillard, A. Zinke, J.R. Yates III, T. Muller-Reichert, A. Shevchenko, K. Oegema, and A.A. Hyman. (2007). The *C. elegans* RSA complex localizes protein phosphatase 2A to centrosomes and regulates mitotic spindle assembly. *Cell.* 128:115-127. DOI 10.1016/j.cell.2006.10.050 (\*authors contributed equally)
13. Srsen, V., N. Gnad, A. Dammermann, and A. Merdes. 2006. Inhibition of centrosome protein assembly leads to p53-dependent exit from the cell cycle. *J Cell Biol.* 174:625-30. DOI 10.1083/jcb.200606051
- \*14. Dammermann, A., T. Muller-Reichert, L. Pelletier, B. Habermann, A. Desai, and K. Oegema. (2004). Centriole assembly requires both centriolar and pericentriolar material proteins. *Dev Cell.* 7:815-29. DOI 10.1016/j.devcel.2004.10.015
15. Freeman, A.I., H.L. Munn, V. Lyons, A. Dammermann, J.R. Seckl, and K.E. Chapman. 2004. Glucocorticoid down-regulation of rat glucocorticoid receptor does not involve differential promoter regulation. *J Endocrinol.* 183:365-74. DOI 10.1677/joe.1.05773
16. Dammermann, A. and A. Merdes. 2002. Assembly of centrosomal proteins and microtubule organization depends on PCM-1. *J. Cell Biol.* 159:255-266 DOI 10.1083/jcb.200204023

### **Reviews/Methods chapters:**

\*17. Serwas, D. and A. Dammermann. (2015). Ultrastructural Analysis of *C. elegans* Cilia. *Methods Cell Biol.* 129:341-367. DOI 10.1016/bs.mcb.2015.03.014

18. Dammermann A., L. Cipak, and J. Gregan. 2012. Microtubule organization: a pericentriolar material-like structure in yeast meiosis. *Curr Biol.* 22:R229-31. DOI 10.1016/j.cub.2012.02.036

19. Green, R.A., A. Audhya, A. Pozniakovsky, A. Dammermann, H. Pemble, J. Monen, N. Portier, A. Hyman, A. Desai, and K. Oegema. 2008. Expression and imaging of fluorescent proteins in the *C. elegans* gonad and early embryo. *Methods Cell Biol.* 85:179-218. DOI 10.1016/S0091-679X(08)85009-1

\*20. Dammermann, A., A. Desai, and K. Oegema. 2003. The minus end in sight. *Curr. Biol.* 13:R614-R624. DOI 10.1016/S0960-9822(03)00530-X

\* Corresponding author.