CURRICULUM VITAE

Address: Max Perutz Labs
Dr. Bohr-Gasse 9/4
A-1030 Vienna
Phone: +43 1 4277 54681
e-mail: alex.dammermann@univie.ac.at
Web site: www.maxperutzlabs.ac.at/dammermann

Education:

2016	Habilitation, University of Vienna, Austria
1998-2003	Ph.D., University of Edinburgh, UK
1994-1997	B.A. Natural Sciences (1st Class), University of Cambridge, UK, M.A. (2001)

Academic Positions Held To Date:

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

Awards And Prizes:

2023	Leadership Excellence Award in Research (LExA), Ludwig Boltzmann Gesellschaft (Nominee)
2012	START award, Austrian Science Fund (FWF)
2002	'UK Young Cell Biologist of the Year', British Society for Cell Biology
1997	Natural Sciences prize, Peterhouse, University of Cambridge
1995	Scholar of Peterhouse, University of Cambridge, Senior Scholar (1996)

Teaching:

Since 2024	Member of graduate program (doc.funds) Genome Instability, 2012-2021 member of graduate program (DK) Chromosome Dynamics
Since 2015	Co-organizer, Vienna Biocenter Summer School for pre-doctoral students (https://www.training.vbc.ac.at/summer-school/)
Since 2010	Lectures and practical courses at University of Vienna VO Cell biology I (Bachelor's lecture series)* VO Concepts in Molecular Biology (Master's lecture series) VO Advanced Cell Biology (Master's lecture series) UE Toolkit for *in silico* sequence analysis (1-week Master's practical course)* UE Advanced Genetics, *C. elegans* (2-week Master's practical course)* PS Advanced Biochemistry (Journal club for Master's students) *Course organizer
2006-2008	Teaching assistant, *C. elegans* course at Cold Spring Harbor Laboratory, NY

Mentoring:

Since 2010	Independent group leader at Max Perutz Labs, managing team currently composed of 4 Ph.D. students, 2 Master's students and 1 technician

Professional Activities:

- Member of EU COST Actions NEXUS (Nematode Excellence in Cross-Disciplinary Unified Solutions) since 2026, BioBrillouin (Brillouin Light Scattering Spectroscopy) 2016-2021, and GENiE (Group of *C. elegans* new investigators in Europe) 2015-2019
- Member of graduate programs (doc.funds, DK) 'Genome Instability' since 2024 and 'Chromosome Dynamics' 2012-2021, funded by the Austrian Science Fund (FWF)
- Member of special research areas (SFBs) 'Meiosis' (full member) since 2022 and 'Chromosome Dynamics' (associate member) 2013-2019
- Member of American Society for Cell Biology (ASCB) and British Society for Cell Biology (BSCB) since 2002
- Reviewer for journals including Current Biology, Developmental Cell, eLIFE, The EMBO Journal, EMBO Reports, Genetics, The Journal of Cell Biology, Journal of Cell Science, Molecular Biology of the Cell, Nature, Nature Cell Biology, Nature Communications, PLOS Biology, PLOS Genetics, Review Commons, Science Advances, Scientific Reports and Trends in Cell Biology, as well as funding agencies including Academia Sinica, ANR, BBSRC, ERC, FWO, GAČR, HFSP, MRC, NWO, SNSF and Wellcome Trust

Funding:

2024-2028	Doctoral program (doc.funds) 'Genome Instability', Austrian Science Fund (FWF), #DOC195, 230k Euro part project (Co-investigator)
2022-2030	Special Research Program (SFB) 'Meiosis', Austrian Science Fund (FWF), #F88, 816k Euro part project (Co-investigator)
2021-2024	Project grant 'Molecular Analysis of Interphase Centrosomal Structures', Austrian Science Fund (FWF), #P30760-B20, 425k Euro
2020-2022	Bridge 1 grant 'Developing CryoEM/CLEM methods for analysis of cellular architecture', Austrian Research Promotion Agency (FFG), #P880579, 225k Euro
2018-2021	Project grant 'Identification and characterization of novel ciliogenesis factors', Austrian Science Fund (FWF), #P30760-B20, 393k Euro
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)

Presentations At International Conferences since 2012:

2024	European Worm Meeting, Utrecht, The Netherlands (Invited speaker)
2023	EMBO "Centrosomes in Development, Disease and Evolution" meeting, Istanbul, Turkey (Invited speaker)
	Cold Spring Harbor Asia "Cilia & Centrosomes" meeting, Awaji, Japan (Invited speaker)
2022	EMBO Cilia 2022 meeting, Cologne, Germany
	VIP & DIF meeting, Institut Jacques Monod, Paris, France (Keynote speaker)
2021	EMBO Centrosome meeting, Copenhagen, Denmark/Online
2019	ASCB/EMBO 2019 meeting, Washington, DC
	Czech cilia meeting, Prague, Czech Republic (Keynote speaker)
	C. elegans cytoskeleton workshop, Tel Aviv, Israel
2018	EMBO Conference "Cilia 2018", Copenhagen, Denmark (Invited speaker)
2017	EMBO Conference "Centrosomes and Spindle Pole Bodies", Heidelberg, Germany
	GENiE PI meeting, Prague, Czech Republic
	FASEB Summer Research Conference "Biology of Cilia and Flagella", Scottsdale, AZ
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)
	Bayer Life Science Workshop "Centrosome Function: Opportunities for Cancer Treatment", Berlin, Germany (Invited speaker)
2013	FASEB Conference "Biology of Cilia and Flagella", Niagara Falls, NY (Invited speaker)

Invited Seminars:

2025	Department of Biology, FAU Erlangen, Germany
	CBI Toulouse, France
2024	IMG Prague, Czech Republic
	ENS Paris, France
2023	University of Lyon, France
	University of Geneva, Switzerland
2019	Wellcome Trust Centre for Cell Biology, Edinburgh, UK
	School of Biochemistry, University of Bristol, UK
2018	CRBM, Montpellier, France
	Institut Curie, Paris, France
	Department of Biochemistry, University of Oxford, UK
2016	i3S, University of Porto, Portugal
2015	Institut Jacques Monod, Paris, France
2013	Biology Department, UNC Chapel Hill, North Carolina
	Ludwig Institute for Cancer Research, San Diego, CA
2012	Gulbenkian Institute, Lisbon, Portugal

Profiles And Commentaries Related To Lab And Lab Publications:

2022	Coverage of Sustainability Award 2022 of the Austrian Federal Ministry of Education, Science and Research and the Federal Ministry of Climate Action, Environment, Energy, Mobility, Innovation and Technology to the Climate@MaxPerutzLabs initiative headed by Jeroen Dobbelaere in the lab, see also articles by Jeroen in One Earth 5:18-21, J Cell Sci 135:jcs259645 and EMBO Rep. 24:e56683 and profile in Die Presse 19. June.
2020	Gen-Mutationen wurden den letzten Mammuts zum Verhängnis. Der Standard, 21 February and articles on CNN, Endgadget, Forbes, FOX News, ORF, Popular Mechanics, Die Presse, Spektrum der Wissenschaft, etc (National and international news coverage of Fry 2020)
2019	Zellteilung ohne Ankerpunkte gerät zur zellulären Katastrophe. Der Standard, 13 July (Article in national press on Cabral 2019)
2017	Nechipurenko, Inna and Sengupta, Piali. The rise and fall of basal bodies in the nematode *C. elegans*. Cilia 6, 9. (Review article on Serwas 2017).
2015	Leslie, Mitch. Cilia drop anchor. J Cell Biol 210, 3. (In focus feature on Schouteden 2015)
2015	Prosser, Suzanna and Pelletier, Laurence. Centrosome Biology: The Ins and Outs of Centrosome Assembly. Curr Biol 25, R656–9. (News & views article on Laos 2015)
2014	Sorz, Uschi. Jungforscherinnen. Falter Heureka 2. April (Profile of Gabriela Cabral in national press)
2013	Sluder, Greenfield. Centriole engagement: it's not just cohesin any more. Curr Biol 23, R659-660. (News & views article on Cabral 2013)
2013	Klebersubstanzen halten Zentriolen in Schach. Der Standard, 22 July (Article in national press on Cabral 2013)
2012	Kuffner, Astrid. Den Dirigenten des Zellskeletts verstehen. Der Standard 22 August (Profile in national press)
2012	Schmidt, Veronika. Das Zentriol: Winzige Struktur, große Wirkung. Die Presse am Sonntag 17 June (Article in national press on START award)

PUBLICATIONS

ORCID ID:
https://orcid.org/0000-0002-1251-0978

Research Articles (Manuscripts Under Review):

1. Garcia-Baucells, J., C. Bevilacqua, M. Rufin*, C. Rumpf-Kienzl*, A. Zampetaki*, O.G. Andriotis, P.J. Thurner, R. Prevedel, S. Fürthauer, and A. Dammermann. 2025. Centrosome Softening As A Mechanical Adaptation For Mitosis. *Submitted.* bioRxiv:2025.2009.2009.675178. (*authors contributed equally)

2. Paulin, O.W., J. Garcia-Baucells, L. Zieger, S. Aland, A. Dammermann, and D. Zwicker. 2025. Active viscoelastic condensates provide controllable mechanical anchor points. *Submitted.* arXiv:2506.14591.

Research Articles (Peer-Reviewed):

3. Voelkl, I.T. Civetta, M. Egg, M. Huber, S. Feng, A. Dammermann, and C. Buecker. 2025. In vitro approaches to study centriole and cilium function in early mouse embryogenesis. **Life Sci Alliance.** 2025 9:e202503358.

*4. Pachinger, C., J. Dobbelaere, C. Rumpf-Kienzl, S. Raina, J. Garcia Baucells, A. Brauneis, and A. Dammermann. 2025. A conserved role for centriolar satellites in translation of centrosomal and ciliary proteins. **J Cell Biol.** 224:e202408042.

5. Perrier, A., N. Guiglielmoni, D. Naquin, K. Gorrichon, C. Thermes, S. Lameiras, A. Dammermann, P.H. Schiffer, J.C. Canman, and J. Dumont. 2024. Maternally-inherited centrioles induce embryo polarization in parthenogenetic nematodes. **Nat Commun.** 15:6042.

6. Dobbelaere, J., T.Y. Su*, B. Erdi*, A. Schleiffer, and A. Dammermann. 2023. A Phylogenetic Profiling Approach Identifies Novel Ciliogenesis Genes In *Drosophila* And *C. elegans*. **EMBO J.** e113616. (*authors contributed equally)

*7. Holzer E., C. Rumpf-Kienzl, S. Falk, and A. Dammermann. 2022. A modified TurboID approach identifies tissue-specific centriolar components in *C. elegans*. **PLoS Genet.** 18:e1010150.

8. Garbrecht, J., T. Laos*, E. Holzer, M. Dillinger, and A. Dammermann. 2021. An Acentriolar Centrosome At The *C. elegans* Ciliary Base. **Curr Biol.** Apr 1:S0960-9822(21)00362-6. Online ahead of print. (*authors contributed equally)

*9. Dobbelaere, J., M. Schmidt Cernohorska, M. Huranova, D. Slade, and A. Dammermann. 2020. Cep97 Is Required For Centriole Structural Integrity And Cilia Formation In *Drosophila*. **Curr Biol.** 30:3045-56.

10. Fry, E., S.K. Kim, S. Chigurapti, A. Ratan, A. Dammermann, B.J. Mitchell, W. Miller, and V.J. Lynch. 2020. Accumulation And Functional Architecture Of Deleterious Genetic Variants During The Extinction Of Wrangel Island Mammoths. **Genome Biol Evol.** 12:48-58.

11. Cabral, G., T. Laos*, J. Dumont, and A. Dammermann. 2019. Centriole-Dependent And Independent Steps In Mitotic Centrosome Assembly. **Dev Cell.** 50:355-66. (*authors contributed equally)

12. Link, J., D. Paouneskou, M. Velkova, A. Daryabeigi, T. Laos, S. Labella, C. Barroso, S.P. Pinol, A. Montoya, H. Kramer, S.M. Markert, C. Stigloher, E. Martinez-Perez, A. Dammermann, M. Alsheimer, M. Zetka, and V. Jantsch. 2018. Lamin Phosphorylation Dynamics Accommodate Landmark Meiotic Prophase Events. **Dev Cell.** 45:212-25.

13. Hellerschmied, D., M. Roessler*, A. Lehner*, L. Gazda, K. Stejskal, R. Imre, K. Mechtler, A. Dammermann, and T. Clausen. 2018. UFD-2 Is An Adaptor-Assisted E3 Ligase Targeting Unfolded Proteins. **Nat Commun.** 9:484. (*authors contributed equally)

*14. Serwas, D., T.Y. Su, M. Roessler, S. Wang, and A. Dammermann. 2017. Centrioles Initiate Cilia Assembly But Are Dispensable For Maturation And Maintenance In *C. elegans*. **J Cell Biol.** 216:1659-1671.

15. Molodtsov, M.I., C. Mieck, J. Dobbelaere, A. Dammermann, S. Westermann, and A. Vaziri. 2016. A Force-Induced Directional Switch Of A Molecular Motor Enables Parallel Microtubule Bundle Formation. **Cell.** 167:539-552.

*16. Wei, Q., Y. Zhang, C. Schouteden, Y. Zhang, Q. Zhang, J. Dong, V. Wonesch, K. Ling, A. Dammermann, and J. Hu. 2016. The Hydrolethalus Syndrome Protein HYLS-1 Regulates Formation Of The Ciliary Gate. **Nat Commun.** 7:12437.

17. Kodani, A., T.W. Yu, J.R. Johnson, D. Jayaraman, T.L. Johnson, L. Al-Gazali, L. Sztriha, J.N. Partlow, H. Kim, A.L. Krup, A. Dammermann, N. Krogan, C.A. Walsh, and J.F. Reiter. 2015. Centriolar satellites assemble centrosomal microcephaly proteins to recruit CDK2 and promote centriole duplication. **eLife.** 4:e07519.

*18. Laos, T., G. Cabral, and A. Dammermann. 2015. Isotropic Incorporation Of SPD-5 Underlies Centrosome Assembly In *C. elegans*. **Curr Biol**. 25:R648-649.

19. Schouteden, C., D. Serwas*, M. Palfy, 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. (*authors contributed equally)

*20. 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.

21. 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.

22. 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. (*authors contributed equally)

23. 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.

*24. 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.

25. 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.

26. 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. (*authors contributed equally)

27. Srsen, V., N. Gnadt, 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.

*28. 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.

29. 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.

30. Dammermann, A. and A. Merdes. 2002. Assembly of centrosomal proteins and microtubule organization depends on PCM-1. **J Cell Biol.** 159:255-266.

Reviews/Methods Chapters:

*31. Serwas, D. and A. Dammermann. 2015. Ultrastructural Analysis of *C. elegans* Cilia. **Methods Cell Biol.** 129:341-367.

32. Dammermann A., L. Cipak, and J. Gregan. 2012. Microtubule organization: a pericentriolar material-like structure in yeast meiosis. **Curr Biol.** 22:R229-31.

33. 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.

*34. Dammermann, A., A. Desai, and K. Oegema. 2003. The minus end in sight. **Curr Biol.** 13:R614-R624.

* Corresponding author. From 2010 lab members underlined.