

# Curriculum vitae Anna Akhmanova

## Personal Information

Name : Anna S. Akhmanova

Date and place of birth: 11-05-1967, Moscow

Nationality: Russian, Dutch

Present address: Prof. Dr. Anna Akhmanova, Cell Biology, Neurobiology and Biophysics, Department of Biology, Faculty of Science, Utrecht University, Padualaan 8, 3584 CH, Utrecht, The Netherlands;

Tel. 31-(0)30-2532328; e-mail: a.akhmanova@uu.nl; cellbiology.science.uu.nl/research-groups/anna-akhmanova

## Academic education and degrees

University Education: 1984-1989, Moscow State University

MS degree: June 1989 Discipline: Biochemistry

PhD thesis: March 4, 1997 University: Catholic University of Nijmegen

## Appointments

**2023-current:** Director of the Institute of Biodynamics and Biocomplexity, Utrecht University, Utrecht, the Netherlands

**2011-current:** Professor and co-chair, Division of Cell Biology, Faculty of Science, Utrecht University, Utrecht, The Netherlands.

**2008-2010:** Associate Professor (UHD), Department of Cell Biology, Erasmus Medical Centre, Rotterdam, The Netherlands.

**2003-2008:** Assistant Professor (UD), tenure position at the Department of Cell Biology, Erasmus Medical Centre, Rotterdam, The Netherlands.

**2001-2002:** group leader at the Erasmus Medical Centre, Rotterdam, The Netherlands.

**1997-2001:** postdoc, Department of Cell Biology and Genetics, Erasmus University of Rotterdam, The Netherlands.

**1996-1997:** postdoc, Department of Microbiology and Evolutionary Biology, Catholic University of Nijmegen, The Netherlands.

**1992-1996:** Ph.D. student, Department of Genetics, Catholic University of Nijmegen, The Netherlands.

**1991-1992:** Research Scholar, Microscopy Group, Department of Applied Physics, University of Twente, The Netherlands.

**1989-1991:** junior scientist at A.N.Belozersky Laboratory of Bioorganic Chemistry and Molecular Biology, Moscow State University.

## Memberships and honors

Elected member of EMBO (European Molecular Biology Organization)

Elected member the Royal Netherlands Academy of Arts and Sciences (KNAW)

## Leadership of national and international organizations

2020-current: Scientific delegate of the EMBC/EMBL Council

2011-2017 Chair of the Netherlands Microscopy Society

## Major Grants and Awards

2022. Programme leader Gravitation grant “IMAGINE! Innovative microscopy and guidance of cells in their native environment” ~20 M€ for 10 years, 19 research groups.

2022. European Research Council (ERC) Synergy grant “PushingCell”, together with Michael Sixt (IST Austria), Patricia Bassereau and Pierre Sens (Institut cure, France), 10 M€.

2022. Programme leader ENW-XL grant “On form and growth: Correlative molecular imaging of microtubule structure and dynamics”, ~2,5 M€ for 5 years, 6 research groups.

2018. Netherlands Organisation for Scientific Research (NWO) Spinoza Prize, the highest academic distinction in the Netherlands. 2.5 M€ to be spent freely on research.

2013. European Research Council (ERC) Synergy grant “ModelCell”, together with Marileen Dogterom (TU Delft), 7.1 M€.

2007. Netherlands Organisation for Scientific Research (NWO) Innovational Research Incentives Scheme VICI award and Aspasia Award (1.250 M € to expand the research group)

2001. Netherlands Organisation for Scientific Research (NWO) Innovational Research Incentives Scheme award (600, 000 € to start an independent research group)

### **Overview of scientific career**

Dr. Anna Akhmanova is a Professor of Cellular Dynamics at the Faculty of Science at the University of Utrecht, The Netherlands. Anna Akhmanova was trained as a biochemist and a molecular biologist and graduated from Moscow State University, Russia, in 1989. She completed her PhD on chromatin proteins in the fruit fly *Drosophila melanogaster* at the University of Nijmegen, the Netherlands in 1997. She did her first postdoctoral research on the early eukaryotic evolution in anaerobic environments at the Department of Microbiology at the University of Nijmegen (1997). During this period, Akhmanova demonstrated for the first time the presence of a genome in a hydrogen-producing organelle of an anaerobic protozoan (A.Akhmanova et al., 1998, Nature, 396,527-8). Akhmanova then moved to the Department of Cell Biology at the Erasmus MC, where she was first a postdoctoral fellow, and later, since 2001, a group leader. In 2011, Akhmanova became a full Professor and co-chair of the Division of Cell Biology at Utrecht University, the Netherlands. Since 2023, Akhmanova is also the director of the Institute of Biodynamics and Biocomplexity at Utrecht University. Since 2024, Akhmanova is the Chair of the Science for Life community of the Utrecht University Strategic Theme Life Sciences.

### **Scientific achievements of Akhmanova’s group:**

- Employed mouse GFP knock-in technology, mass spectrometry and advanced live cell imaging to unravel key interactions within protein networks that regulate microtubule dynamics.
- Delineated fundamental structural principles of protein recruitment to microtubule ends and used these insights for in-vitro reconstitution experiments with purified proteins and functional in vivo studies.
- Characterized basic mechanisms of bi-directional microtubule-based motility of membrane organelles such as cell nuclei and exocytotic vesicles, and identified the mechanisms of molecular motor recruitment to membranes.
- Used advanced microscopy approaches such as laser microsurgery in combination with in vitro reconstitution to identify the mechanistic basis of a major pathway for microtubule minus-end stabilization in mammalian cells
- Revealed the mechanistic basis of human neurodevelopmental syndrome Congenital Fibrosis of the Extraocular Muscles (CFEOM1)
- Demonstrated the importance of microtubule plus end dynamics for cancer cell motility in 3D and cancer metastasis
- Revealed the role of the major microcephaly-related factors, ASPM and katanin, in regulation of minus end dynamics at spindle poles and the mitotic spindle architecture
- Identified the molecular mechanism of microtubule minus-end binding by the members of CAMSAP family of proteins
- Provided insights into the activity of microtubule-targeting cancer therapy agents by directly imaging the interactions of their fluorescent analogues with microtubules
- Reconstituted control of microtubule dynamics by centriolar cap and ciliary tip proteins

## **Research output in numbers**

- 246 publications (research papers, reviews and editorials) in peer-reviewed journals
- 18 PhD students completed their PhD within Akhmanova group

## **Membership of scientific committees**

2025 Chair of the Cell&Developmental Biology panel ATIP Avenir young group leader  
2024 Chair of the Cell&Developmental Biology panel ATIP Avenir young group leader  
2022 Member of the NWO ENW VICI committee.  
2021 Chair KNAW selection committee MMBG domain.  
2020 Member of the NWO ENW VICI and Incentive Grants for Women in STEM committees.  
2019 Chair of the Cell&Developmental Biology panel ATIP Avenir young group leader, Chair KNAW selection committee MMBG domain, Inserm and CNRS, France; member of the NWO ENW VICI committee.  
2018 Chair of the ERC LS3 Starting grant panel, Chair KNAW selection committee MMBG domain, NWO ZonMW VIDI committee.  
2017 Member KNAW selection committee MMBG domain, NWO ZonMW VIDI committee,  
2016 Chair of the ERC LS3 Starting grant panel, member of the ERC Advanced panel, committee member EMBO Long Term Fellowship, NWO ZonMW VIDI committee.  
2015 EMBO Long Term Fellowship, NWO VENI committee.  
2014 Grant Panel member and vice-chair for ERC Starting Grant, Agence Nationale de la Recherche France, AERES evaluation committee of Curie Institute Genotoxic Stress and Cancer unit, EMBO Long Term Fellowship, Faculty Search committee Curie Institute France.  
2013 Agence Nationale de la Recherche France, Academy of Finland, EMBO Long Term Fellowship.  
2012 Grant Panel member for ERC Starting Grant, Agence Nationale de la Recherche France, Academy of Finland EMBO Long Term Fellowship, Netherlands Organisation for Scientific Research ALW (Earth and Life Sciences) Open program, Faculty search committee Curie Institute France; Faculty Search Committee ETH Zurich, Switzerland.  
2011 Member of the Jury of the FOM projects (Netherlands Organisation for Scientific Research, Physics).  
2009 Evaluator and committee member for the EU 7th Framework Programme in the area of Systems Biology.  
2008, 2009 Member of the Advisory Committee (Benoemingsadviescommissie (BAC)) Bionanoscience TU Delft.  
2007, 2008 Member of the Netherlands Organisation for Scientific Research (NWO) Mosaic advisory committee, which awards PhD grants for national minorities in the Netherlands.

## **Membership in Scientific Advisory Boards**

2023-current: NWO Institute AMOLF - Physics of functional complex matter, Amsterdam, the Netherlands  
2016-2024: Netherlands Institute for Neuroscience, Amsterdam, the Netherlands,  
2017-current: Instituto de Investigação e Inovação em Saúde (i3S), Porto, Portugal  
2019 Evaluation committee by the Scientific Advisory Board CRG Cell and Developmental Biology programme Barcelona, Spain (2019).

## Editorial activities

- Journal of Cell Biology, Academic Editor 2025-
- Elife, Deputy Editor 2018-2023
- Current Opinion in Cell Biology, Guest Editor 2012, Editorial Board member 2017-present
- Journal of Cell Science, Editorial Advisory Board Member
- PLoS Biology, Editorial Board Member
- Journal of Biological Chemistry, Reviewing Editor 2014-2016
- Encyclopedia of Cell Biology, Section Editor 2014

## Organization of Scientific Meetings

**2022, 2020, 2018.** Organisation of the EMBO/EMBL Symposium “Microtubules: From Atoms to Complex Systems”, Heidelberg, Germany.

**2014-2017.** Organisation of QBio Summer School, July 14-18, 2014, Utrecht University.

**2014.** Biophysical Society meeting "Disordered Motifs and Domains in Cell Control", Dublin, Ireland.

**2011-2017** Organisation of the Joint Annual meeting of the Dutch Microscopy Society (NVvM) and the “Dutch meeting on Molecular and Cellular Biophysics”, Veldhoven, the Netherlands

**2009, 2010.** Member of the program committee for the “Dutch meeting on Molecular and Cellular Biophysics”, Veldhoven, the Netherlands.

**2006.** Invited co-chair of the minisymposium “Life at the Microtubule Plus End” at the American Society for Cell Biology (ASCB) Annual Meeting, San Diego, USA.

**2005.** Invited co-chair of the minisymposium “The Cytoskeleton” at the European Life Scientist Organisation Meeting (ELSO), Dresden, Germany.

## Publications

1. Saunders HAJ, van den Berg CM, Hoogebeen RA, Schweizer D, Stecker KE, Roepman R, Howes SC, and **Akhmanova A**. A network of interacting ciliary tip proteins with opposing activities imparts slow and processive microtubule growth. *Nat Struct Mol Biol*, 2025. in press.
2. de Jager L, Jansen KI, Hoogebeen R, **Akhmanova A**, Kapitein LC, Forster F, and Howes SC. StableMARK-decorated microtubules in cells have expanded lattices. *J Cell Biol*, 2025. 224: e202206143
3. Volkov VA and **Akhmanova A**. Phase separation on microtubules: from droplet formation to cellular function? *Trends Cell Biol*, 2024. 34: 18-30.
4. They M and **Akhmanova A**. Confined migration: Microtubules control the cell rear. *Curr Biol*, 2024. 34: R728-R731.
5. Schmitt C, Mauker P, Veprek NA, Gierse C, Meiring JCM, Kuch J, **Akhmanova A**, Dehmelt L, and Thorn-Seshold O. A Photocaged Microtubule-Stabilising Epothilone Allows Spatiotemporal Control of Cytoskeletal Dynamics. *Angew Chem Int Ed Engl*, 2024. 63: e202410169.
6. Rai D, Song Y, Hua S, Stecker K, Monster JL, Yin V, Stucchi R, Xu Y, Zhang Y, Chen F, Katrukha EA, Altelaar M, Heck AJR, Wieczorek M, Jiang K, and **Akhmanova A**. CAMSAPs and nucleation-promoting factors control microtubule release from gamma-TuRC. *Nat Cell Biol*, 2024. 26: 404-420.
7. Chiang DY, Verkerk AO, Victorio R, Shneyer BI, van der Vaart B, Jouni M, Narendran N, Kc A, Sampognaro JR, Vetrano-Olsen F, Oh JS, Buys E, de Jonge B, Shah DA, Kiviniemi T, Burridge PW, Bezzina CR, **Akhmanova A**, and MacRae CA. The Role of MAPRE2 and Microtubules in Maintaining Normal Ventricular Conduction. *Circ Res*, 2024. 134: 46-59.

8. Vennin C, Cattaneo CM, Bosch L, Vegna S, Ma X, Damstra HGJ, Martinovic M, Tsouri E, Ilic M, Azarang L, van Weering JRT, Pulver E, Zeeman AL, Schelfhorst T, Lohuis JO, Rios AC, Dekkers JF, Akkari L, Menezes R, Medema R, Baglio SR, **Akhmanova A**, Linn SC, Lemeer S, Pegtel DM, Voest EE, and van Rheenen J. Taxanes trigger cancer cell killing in vivo by inducing non-canonical T cell cytotoxicity. *Cancer Cell*, 2023. 41: 1170-1185 e12.
9. van den Berg CM, Volkov VA, Schnorrenberg S, Huang Z, Stecker KE, Grigoriev I, Gilani S, Frikstad KM, Patzke S, Zimmermann T, Dogterom M, and **Akhmanova A**. CSPP1 stabilizes growing microtubule ends and damaged lattices from the luminal side. *J Cell Biol*, 2023. 222
10. Nick Maleki A, Huis In 't Veld PJ, **Akhmanova A**, Dogterom M, and Volkov VA. Estimation of microtubule-generated forces using a DNA origami nanospring. *J Cell Sci*, 2023. 136
11. Li Y, Kucera O, Cuvelier D, Rutkowski DM, Deygas M, Rai D, Pavlovic T, Vicente FN, Piel M, Giannone G, Vavylonis D, **Akhmanova A**, Blanchoin L, and Thery M. Compressive forces stabilize microtubules in living cells. *Nat Mater*, 2023. 22: 913-924.
12. Damstra HGJ, Passmore JB, Serweta AK, Koutlas I, Burute M, Meye FJ, **Akhmanova A**, and Kapitein LC. GelMap: intrinsic calibration and deformation mapping for expansion microscopy. *Nat Methods*, 2023. 20: 1573-1580.
13. Damstra HGJ, Mohar B, Eddison M, **Akhmanova A**, Kapitein LC, and Tillberg PW. Ten-fold Robust Expansion Microscopy. *Bio Protoc*, 2023. 13: e4698.
14. Willekers S, Tessadori F, van der Vaart B, Henning HH, Stucchi R, Altelaar M, Roelen BAJ, **Akhmanova A**, and Bakkers J. The centriolar satellite protein Cfp53 facilitates formation of the zygotic microtubule organizing center in the zebrafish embryo. *Development*, 2022. 149
15. Rushworth JL, Thawani AR, Fajardo-Ruiz E, Meiring JCM, Heise C, White AJP, **Akhmanova A**, Brandt JR, Thorn-Seshold O, and Fuchter MJ. [5]-Helicostans: Tubulin-Binding Helicenes with Antimitotic Activity. *JACS Au*, 2022. 2: 2561-2570.
16. Noordstra I, van den Berg CM, Boot FWJ, Katrukha EA, Yu KL, Tas RP, Portegies S, Viergever BJ, de Graaff E, Hoogenraad CC, de Koning EJP, Carlotti F, Kapitein LC, and **Akhmanova A**. Organization and dynamics of the cortical complexes controlling insulin secretion in beta-cells. *J Cell Sci*, 2022. 135
17. Morthorst SK, Nielsen C, Farinelli P, Anvarian Z, Rasmussen CBR, Serra-Marques A, Grigoriev I, Altelaar M, Furstenberg N, Ludwig A, **Akhmanova A**, Christensen ST, and Pedersen LB. Angiomotin isoform 2 promotes binding of PALS1 to KIF13B at primary cilia and regulates ciliary length and signaling. *J Cell Sci*, 2022. 135
18. Meiring JCM, Grigoriev I, Nijenhuis W, Kapitein LC, and **Akhmanova A**. Opto-katanin, an optogenetic tool for localized, microtubule disassembly. *Curr Biol*, 2022
19. Gao L, Meiring JCM, Varady A, Ruider IE, Heise C, Wranik M, Velasco CD, Taylor JA, Terni B, Weinert T, Standfuss J, Cabernard CC, Llobet A, Steinmetz MO, Bausch AR, Distel M, Thorn-Seshold J, **Akhmanova A**, and Thorn-Seshold O. In Vivo Photocontrol of Microtubule Dynamics and Integrity, Migration and Mitosis, by the Potent GFP-Imaging-Compatible Photoswitchable Reagents SBTab4P and SBTab2M. *J Am Chem Soc*, 2022. 144: 5614-5628.
20. Gao L, Meiring JCM, Heise C, Rai A, Muller-Deku A, **Akhmanova A**, Thorn-Seshold J, and Thorn-Seshold O. Photoswitchable Epothilone-Based Microtubule Stabilisers Allow GFP-Imaging-Compatible, Optical Control over the Microtubule Cytoskeleton. *Angew Chem Int Ed Engl*, 2022. 61: e202114614.
21. Eisen MB, **Akhmanova A**, Behrens TE, Diedrichsen J, Harper DM, Iordanova MD, Weigel D, and Zaidi M. Peer review without gatekeeping. *Elife*, 2022. 11
22. Dusza HM, Katrukha EA, Nijmeijer SM, **Akhmanova A**, Vethaak AD, Walker DI, and Legler J. Uptake, Transport, and Toxicity of Pristine and Weathered Micro- and Nanoplastics in Human Placenta Cells. *Environ Health Perspect*, 2022. 130: 97006.
23. Damstra HGJ, Mohar B, Eddison M, **Akhmanova A**, Kapitein LC, and Tillberg PW. Correction: Visualizing cellular and tissue ultrastructure using Ten-fold Robust Expansion Microscopy (TReX). *Elife*, 2022. 11

24. Damstra HGJ, Mohar B, Eddison M, **Akhmanova A**, Kapitein LC, and Tillberg PW. Visualizing cellular and tissue ultrastructure using Ten-fold Robust Expansion Microscopy (TREx). *Elife*, 2022. 11
25. Chen F, Wu J, Iwanski MK, Jurriens D, Sandron A, Pasolli M, Puma G, Kromhout JZ, Yang C, Nijenhuis W, Kapitein LC, Berger F, and **Akhmanova A**. Self-assembly of pericentriolar material in interphase cells lacking centrioles. *Elife*, 2022. 11
26. Alkemade C, Wierenga H, Volkov VA, Preciado Lopez M, **Akhmanova A**, Ten Wolde PR, Dogterom M, and Koenderink GH. Cross-linkers at growing microtubule ends generate forces that drive actin transport. *Proc Natl Acad Sci U S A*, 2022. 119: e2112799119.
27. **Akhmanova A** and Kapitein LC. Mechanisms of microtubule organization in differentiated animal cells. *Nat Rev Mol Cell Biol*, 2022. 23: 541-558.
28. Zaidi M, Harper DM, **Akhmanova A**, Weigel D, Behrens TE, and Eisen MB. Rigorous review and editorial oversight of clinical preprints. *Elife*, 2021. 10
29. Sailer A, Meiring JCM, Heise C, Pettersson LN, **Akhmanova A**, Thorn-Seshold J, and Thorn-Seshold O. Pyrrole Hemithioindigo Antimitotics with Near-Quantitative Bidirectional Photoswitching that Photocontrol Cellular Microtubule Dynamics with Single-Cell Precision\*. *Angew Chem Int Ed Engl*, 2021. 60: 23695-23704.
30. Rimmelzwaal S, Geisler F, Stucchi R, van der Horst S, Pasolli M, Kroll JR, Jarosinska OD, **Akhmanova A**, Richardson CA, Altelaar M, Leube RE, Ramalho JJ, and Boxem M. BBLN-1 is essential for intermediate filament organization and apical membrane morphology. *Curr Biol*, 2021. 31: 2334-2346 e9.
31. Rai A, Liu T, Katrukha EA, Estevez-Gallego J, Manka SW, Paterson I, Diaz JF, Kapitein LC, Moores CA, and **Akhmanova A**. Lattice defects induced by microtubule-stabilizing agents exert a long-range effect on microtubule growth by promoting catastrophes. *Proc Natl Acad Sci U S A*, 2021. 118
32. Luo Y, Xiang S, Paioni AL, Adler A, Hooikaas PJ, Jijumon AS, Janke C, **Akhmanova A**, and Baldus M. Solid-State NMR Spectroscopy for Studying Microtubules and Microtubule-Associated Proteins. *Methods Mol Biol*, 2021. 2305: 193-201.
33. Gros OJ, Damstra HGJ, Kapitein LC, **Akhmanova A**, and Berger F. Dynein self-organizes while translocating the centrosome in T-cells. *Mol Biol Cell*, 2021. 32: 855-868.
34. Gao L, Meiring JCM, Kraus Y, Wranik M, Weinert T, Pritzl SD, Bingham R, Ntoulidou E, Jansen KI, Olieric N, Standfuss J, Kapitein LC, Lohmuller T, Ahlfeld J, **Akhmanova A**, Steinmetz MO, and Thorn-Seshold O. A Robust, GFP-Orthogonal Photoswitchable Inhibitor Scaffold Extends Optical Control over the Microtubule Cytoskeleton. *Cell Chem Biol*, 2021. 28: 228-241 e6.
35. Cowell AR, Jacquemet G, Singh AK, Varela L, Nylund AS, Ammon YC, Brown DG, **Akhmanova A**, Ivaska J, and Goult BT. Talin rod domain-containing protein 1 (TLNRD1) is a novel actin-bundling protein which promotes filopodia formation. *J Cell Biol*, 2021. 220
36. Buijs RR, Hummel JJA, Burute M, Pan X, Cao Y, Stucchi R, Altelaar M, **Akhmanova A**, Kapitein LC, and Hoogenraad CC. WDR47 protects neuronal microtubule minus ends from katanin-mediated severing. *Cell Rep*, 2021. 36: 109371.
37. Yao Y, Smal I, Grigoriev I, **Akhmanova A**, and Meijering E. Deep-learning method for data association in particle tracking. *Bioinformatics*, 2020. 36: 4935-4941.
38. Serra-Marques A, Martin M, Katrukha EA, Grigoriev I, Peeters CA, Liu Q, Hooikaas PJ, Yao Y, Solianova V, Smal I, Pedersen LB, Meijering E, Kapitein LC, and **Akhmanova A**. Concerted action of kinesins KIF5B and KIF13B promotes efficient secretory vesicle transport to microtubule plus ends. *Elife*, 2020. 9
39. Saraon P, Snider J, Kalaidzidis Y, Wybenga-Groot LE, Weiss K, Rai A, Radulovich N, Drecun L, Vuckovic N, Vucetic A, Wong V, Theriault B, Pham NA, Park JH, Datti A, Wang J, Pathmanathan S, Aboulizadeh F, Lyakisheva A, Yao Z, Wang Y, Joseph B, Aman A, Moran MF, Prakesch M, Poda G, Marcellus R, Uehling D, Samarzija M, Jakopovic M, Tsao MS, Shepherd FA, Sacher A, Leighl N, **Akhmanova A**, Al-Awar R, Zerial M, and Stagljar I. A drug discovery platform to identify compounds that inhibit EGFR triple mutants. *Nat Chem Biol*, 2020. 16: 577-586.
40. Rodriguez-Garcia R, Volkov VA, Chen CY, Katrukha EA, Olieric N, Aher A, Grigoriev I, Lopez MP, Steinmetz MO, Kapitein LC, Koenderink G, Dogterom M, and **Akhmanova A**.

- Mechanisms of Motor-Independent Membrane Remodeling Driven by Dynamic Microtubules. *Curr Biol*, 2020. 30: 972-987 e12.
41. Rai A, Liu T, Glauser S, Katrukha EA, Estevez-Gallego J, Rodriguez-Garcia R, Fang WS, Diaz JF, Steinmetz MO, Altmann KH, Kapitein LC, Moores CA, and **Akhmanova A**. Taxanes convert regions of perturbed microtubule growth into rescue sites. *Nat Mater*, 2020. 19: 355-365.
  42. Peronne L, Denarier E, Rai A, Prudent R, Vernet A, Suzanne P, Ramirez-Rios S, Michallet S, Guidetti M, Vollaire J, Lucena-Agell D, Ribba AS, Josserand V, Coll JL, Dallemagne P, Diaz JF, Oliva MA, Sadoul K, **Akhmanova A**, Andrieux A, and Lafanechere L. Two Antagonistic Microtubule Targeting Drugs Act Synergistically to Kill Cancer Cells. *Cancers (Basel)*, 2020. 12
  43. Muller-Deku A, Meiring JCM, Loy K, Kraus Y, Heise C, Bingham R, Jansen KI, Qu X, Bartolini F, Kapitein LC, **Akhmanova A**, Ahlfeld J, Trauner D, and Thorn-Seshold O. Photoswitchable paclitaxel-based microtubule stabilisers allow optical control over the microtubule cytoskeleton. *Nat Commun*, 2020. 11: 4640.
  44. Meiring JCM, Shneyer BI, and **Akhmanova A**. Generation and regulation of microtubule network asymmetry to drive cell polarity. *Curr Opin Cell Biol*, 2020. 62: 86-95.
  45. Meiring JCM and **Akhmanova A**. Microtubules keep large cells in shape. *J Cell Biol*, 2020. 219
  46. Luo Y, Xiang S, Hooikaas PJ, van Bezouwen L, Jijumon AS, Janke C, Forster F, **Akhmanova A**, and Baldus M. Direct observation of dynamic protein interactions involving human microtubules using solid-state NMR spectroscopy. *Nat Commun*, 2020. 11: 18.
  47. Jost M, Chen Y, Gilbert LA, Horlbeck MA, Krenning L, Menchon G, Rai A, Cho MY, Stern JJ, Prota AE, Kampmann M, **Akhmanova A**, Steinmetz MO, Tanenbaum ME, and Weissman JS. Pharmaceutical-Grade Rigosertib Is a Microtubule-Destabilizing Agent. *Mol Cell*, 2020. 79: 191-198 e3.
  48. Hooikaas PJ, Damstra HG, Gros OJ, van Riel WE, Martin M, Smits YT, van Loosdregt J, Kapitein LC, Berger F, and **Akhmanova A**. Kinesin-4 KIF21B limits microtubule growth to allow rapid centrosome polarization in T cells. *Elife*, 2020. 9
  49. Eisen MB, **Akhmanova A**, Behrens TE, and Weigel D. Publishing in the time of COVID-19. *Elife*, 2020. 9
  50. Eisen MB, **Akhmanova A**, Behrens TE, Harper DM, Weigel D, and Zaidi M. Implementing a "publish, then review" model of publishing. *Elife*, 2020. 9
  51. Aher A, Rai D, Schaedel L, Gaillard J, John K, Liu Q, Altelaar M, Blanchoin L, Thery M, and **Akhmanova A**. CLASP Mediates Microtubule Repair by Restricting Lattice Damage and Regulating Tubulin Incorporation. *Curr Biol*, 2020. 30: 2175-2183 e6.
  52. Adriaans IE, Hooikaas PJ, Aher A, Vromans MJM, van Es RM, Grigoriev I, **Akhmanova A**, and Lens SMA. MKLP2 Is a Motile Kinesin that Transports the Chromosomal Passenger Complex during Anaphase. *Curr Biol*, 2020. 30: 2628-2637 e9.
  53. Yu M, Le S, Ammon YC, Goult BT, **Akhmanova A**, and Yan J. Force-Dependent Regulation of Talin-KANK1 Complex at Focal Adhesions. *Nano Lett*, 2019. 19: 5982-5990.
  54. van de Willige D, Hummel JJ, Alkemade C, Kahn OI, Au FK, Qi RZ, Dogterom M, Koenderink GH, Hoogenraad CC, and **Akhmanova A**. Cytolinker Gas2L1 regulates axon morphology through microtubule-modulated actin stabilization. *EMBO Rep*, 2019. 20: e47732.
  55. Pan X, Cao Y, Stucchi R, Hooikaas PJ, Portegies S, Will L, Martin M, **Akhmanova A**, Harterink M, and Hoogenraad CC. MAP7D2 Localizes to the Proximal Axon and Locally Promotes Kinesin-1-Mediated Cargo Transport into the Axon. *Cell Rep*, 2019. 26: 1988-1999 e6.
  56. Jespersen N, Estelle A, Waugh N, Davey NE, Blikstad C, Ammon YC, **Akhmanova A**, Ivarsson Y, Hendrix DA, and Barbar E. Systematic identification of recognition motifs for the hub protein LC8. *Life Sci Alliance*, 2019. 2
  57. Hooikaas PJ, Martin M, Muhlethaler T, Kuijntjes GJ, Peeters CAE, Katrukha EA, Ferrari L, Stucchi R, Verhagen DGF, van Riel WE, Grigoriev I, Altelaar AFM, Hoogenraad CC,

- Rudiger SGD, Steinmetz MO, Kapitein LC, and **Akhmanova A**. MAP7 family proteins regulate kinesin-1 recruitment and activation. *J Cell Biol*, 2019. 218: 1298-1318.
58. Frikstad KM, Molinari E, Thoresen M, Ramsbottom SA, Hughes F, Letteboer SJF, Gilani S, Schink KO, Stokke T, Geimer S, Pedersen LB, Giles RH, **Akhmanova A**, Roepman R, Sayer JA, and Patzke S. A CEP104-CSPP1 Complex Is Required for Formation of Primary Cilia Competent in Hedgehog Signaling. *Cell Rep*, 2019. 28: 1907-1922 e6.
  59. Freal A, Rai D, Tas RP, Pan X, Katrukha EA, van de Willige D, Stucchi R, Aher A, Yang C, Altelaar AFM, Vocking K, Post JA, Harterink M, Kapitein LC, **Akhmanova A**, and Hoogenraad CC. Feedback-Driven Assembly of the Axon Initial Segment. *Neuron*, 2019. 104: 305-321 e8.
  60. Faltova L, Jiang K, Frey D, Wu Y, Capitani G, Prota AE, **Akhmanova A**, Steinmetz MO, and Kammerer RA. Crystal Structure of a Heterotetrameric Katanin p60:p80 Complex. *Structure*, 2019. 27: 1375-1383 e3.
  61. Atherton J, Luo Y, Xiang S, Yang C, Rai A, Jiang K, Stangier M, Vemu A, Cook AD, Wang S, Roll-Mecak A, Steinmetz MO, **Akhmanova A**, Baldus M, and Moores CA. Structural determinants of microtubule minus end preference in CAMSAP CKK domains. *Nat Commun*, 2019. 10: 5236.
  62. **Akhmanova A** and Steinmetz MO. Microtubule minus-end regulation at a glance. *J Cell Sci*, 2019. 132
  63. Tas RP, Chen CY, Katrukha EA, Vleugel M, Kok M, Dogterom M, **Akhmanova A**, and Kapitein LC. Guided by Light: Optical Control of Microtubule Gliding Assays. *Nano Lett*, 2018. 18: 7524-7528.
  64. Martin M, Veloso A, Wu J, Katrukha EA, and **Akhmanova A**. Control of endothelial cell polarity and sprouting angiogenesis by non-centrosomal microtubules. *Elife*, 2018. 7
  65. Martin M and **Akhmanova A**. Coming into Focus: Mechanisms of Microtubule Minus-End Organization. *Trends Cell Biol*, 2018. 28: 574-588.
  66. Jiang K, Faltova L, Hua S, Capitani G, Prota AE, Landgraf C, Volkmer R, Kammerer RA, Steinmetz MO, and **Akhmanova A**. Structural Basis of Formation of the Microtubule Minus-End-Regulating CAMSAP-Katanin Complex. *Structure*, 2018. 26: 375-382 e4.
  67. Galmarini CM, Martin M, Bouchet BP, Guillen-Navarro MJ, Martinez-Diez M, Martinez-Leal JF, **Akhmanova A**, and Aviles P. Plocabulin, a novel tubulin-binding agent, inhibits angiogenesis by modulation of microtubule dynamics in endothelial cells. *BMC Cancer*, 2018. 18: 164.
  68. Fielmich LE, Schmidt R, Dickinson DJ, Goldstein B, **Akhmanova A**, and van den Heuvel S. Optogenetic dissection of mitotic spindle positioning in vivo. *Elife*, 2018. 7
  69. **Akhmanova A** and Hoogenraad CC. More is not always better: hyperglutamylation leads to neurodegeneration. *EMBO J*, 2018. 37
  70. **Akhmanova A**. Strengthening Microtubules by Cuts that Heal. *Dev Cell*, 2018. 47: 400-401.
  71. Aher A, Kok M, Sharma A, Rai A, Olieric N, Rodriguez-Garcia R, Katrukha EA, Weinert T, Olieric V, Kapitein LC, Steinmetz MO, Dogterom M, and **Akhmanova A**. CLASP Suppresses Microtubule Catastrophes through a Single TOG Domain. *Dev Cell*, 2018. 46: 40-58 e8.
  72. Aher A and **Akhmanova A**. Tipping microtubule dynamics, one protofilament at a time. *Curr Opin Cell Biol*, 2018. 50: 86-93.
  73. Yao Y, Smal I, Grigoriev I, Martin M, **Akhmanova A**, and Meijering E. Automated Analysis of Intracellular Dynamic Processes. *Methods Mol Biol*, 2017. 1563: 209-228.
  74. Yang C, Wu J, de Heus C, Grigoriev I, Liv N, Yao Y, Smal I, Meijering E, Klumperman J, Qi RZ, and **Akhmanova A**. EB1 and EB3 regulate microtubule minus end organization and Golgi morphology. *J Cell Biol*, 2017. 216: 3179-3198.
  75. Wu J and **Akhmanova A**. Microtubule-Organizing Centers. *Annu Rev Cell Dev Biol*, 2017. 33: 51-75.
  76. van Riel WE, Rai A, Bianchi S, Katrukha EA, Liu Q, Heck AJ, Hoogenraad CC, Steinmetz MO, Kapitein LC, and **Akhmanova A**. Kinesin-4 KIF21B is a potent microtubule pausing factor. *Elife*, 2017. 6
  77. Schou KB, Mogensen JB, Morthorst SK, Nielsen BS, Aleliunaite A, Serra-Marques A, Furstenberg N, Saunier S, Bizet AA, Veland IR, **Akhmanova A**, Christensen ST, and



- Pedersen LB. KIF13B establishes a CAV1-enriched microdomain at the ciliary transition zone to promote Sonic hedgehog signalling. *Nat Commun*, 2017. 8: 14177.
78. Schmidt R, Fielmich LE, Grigoriev I, Katrukha EA, **Akhmanova A**, and van den Heuvel S. Two populations of cytoplasmic dynein contribute to spindle positioning in *C. elegans* embryos. *J Cell Biol*, 2017. 216: 2777-2793.
  79. Rezaczkova L, Jiang K, Capitani G, Prota AE, **Akhmanova A**, Steinmetz MO, and Kammerer RA. Structural basis of katanin p60:p80 complex formation. *Sci Rep*, 2017. 7: 14893.
  80. Noordstra I and **Akhmanova A**. Linking cortical microtubule attachment and exocytosis. *Fl000Res*, 2017. 6: 469.
  81. Liu Q, Rimmelzwaal S, Heck AJR, **Akhmanova A**, and Liu F. Facilitating identification of minimal protein binding domains by cross-linking mass spectrometry. *Sci Rep*, 2017. 7: 13453.
  82. Kumar A, Manatschal C, Rai A, Grigoriev I, Degen MS, Jaussi R, Kretschmar I, Prota AE, Volkmer R, Kammerer RA, **Akhmanova A**, and Steinmetz MO. Short Linear Sequence Motif LxxPTPh Targets Diverse Proteins to Growing Microtubule Ends. *Structure*, 2017. 25: 924-932 e4.
  83. Katrukha EA, Mikhaylova M, van Brakel HX, van Bergen En Henegouwen PM, **Akhmanova A**, Hoogenraad CC, and Kapitein LC. Probing cytoskeletal modulation of passive and active intracellular dynamics using nanobody-functionalized quantum dots. *Nat Commun*, 2017. 8: 14772.
  84. Jost M, Chen Y, Gilbert LA, Horlbeck MA, Krenning L, Menchon G, Rai A, Cho MY, Stern JJ, Prota AE, Kampmann M, **Akhmanova A**, Steinmetz MO, Tanenbaum ME, and Weissman JS. Combined CRISPRi/a-Based Chemical Genetic Screens Reveal that Rigosertib Is a Microtubule-Destabilizing Agent. *Mol Cell*, 2017. 68: 210-223 e6.
  85. Jiang K, Rezaczkova L, Hua S, Liu Q, Capitani G, Altelaar AFM, Heck AJR, Kammerer RA, Steinmetz MO, and **Akhmanova A**. Microtubule minus-end regulation at spindle poles by an ASPM-katanin complex. *Nat Cell Biol*, 2017. 19: 480-492.
  86. Gummy LF, Katrukha EA, Grigoriev I, Jaarsma D, Kapitein LC, **Akhmanova A**, and Hoogenraad CC. MAP2 Defines a Pre-axonal Filtering Zone to Regulate KIF1- versus KIF5-Dependent Cargo Transport in Sensory Neurons. *Neuron*, 2017. 94: 347-362 e7.
  87. Bouchet BP and **Akhmanova A**. Microtubules in 3D cell motility. *J Cell Sci*, 2017. 130: 39-50.
  88. Bohnacker T, Prota AE, Beaufils F, Burke JE, Melone A, Inglis AJ, Rageot D, Sele AM, Cmiljanovic V, Cmiljanovic N, Bargsten K, Aher A, **Akhmanova A**, Diaz JF, Fabbro D, Zvelebil M, Williams RL, Steinmetz MO, and Wymann MP. Deconvolution of Buparlisib's mechanism of action defines specific PI3K and tubulin inhibitors for therapeutic intervention. *Nat Commun*, 2017. 8: 14683.
  89. Au FK, Jia Y, Jiang K, Grigoriev I, Hau BK, Shen Y, Du S, **Akhmanova A**, and Qi RZ. GAS2L1 Is a Centriole-Associated Protein Required for Centrosome Dynamics and Disjunction. *Dev Cell*, 2017. 40: 81-94.
  90. Atherton J, Jiang K, Stangier MM, Luo Y, Hua S, Houben K, van Hooff JJE, Joseph AP, Scarabelli G, Grant BJ, Roberts AJ, Topf M, Steinmetz MO, Baldus M, Moores CA, and **Akhmanova A**. A structural model for microtubule minus-end recognition and protection by CAMSAP proteins. *Nat Struct Mol Biol*, 2017. 24: 931-943.
  91. **Akhmanova A** and Maiato H. Closing the tubulin detyrosination cycle. *Science*, 2017. 358: 1381-1382.
  92. Wu J, de Heus C, Liu Q, Bouchet BP, Noordstra I, Jiang K, Hua S, Martin M, Yang C, Grigoriev I, Katrukha EA, Altelaar AFM, Hoogenraad CC, Qi RZ, Klumperman J, and **Akhmanova A**. Molecular Pathway of Microtubule Organization at the Golgi Apparatus. *Dev Cell*, 2016. 39: 44-60.
  93. van de Willige D, Hoogenraad CC, and **Akhmanova A**. Microtubule plus-end tracking proteins in neuronal development. *Cell Mol Life Sci*, 2016. 73: 2053-77.
  94. Sharma A, Aher A, Dynes NJ, Frey D, Katrukha EA, Jaussi R, Grigoriev I, Croisier M, Kammerer RA, **Akhmanova A**, Gonczy P, and Steinmetz MO. Centriolar CPAP/SAS-4 Imparts Slow Processive Microtubule Growth. *Dev Cell*, 2016. 37: 362-376.

95. Rezaczkova L, Kraatz SH, **Akhmanova A**, Steinmetz MO, and Kammerer RA. Biophysical and Structural Characterization of the Centriolar Protein Cep104 Interaction Network. *J Biol Chem*, 2016. 291: 18496-504.
96. Portegijs V, Fielmich LE, Galli M, Schmidt R, Munoz J, van Mourik T, **Akhmanova A**, Heck AJ, Boxem M, and van den Heuvel S. Multisite Phosphorylation of NuMA-Related LIN-5 Controls Mitotic Spindle Positioning in *C. elegans*. *PLoS Genet*, 2016. 12: e1006291.
97. Noordstra I, Liu Q, Nijenhuis W, Hua S, Jiang K, Baars M, Remmelzwaal S, Martin M, Kapitein LC, and **Akhmanova A**. Control of apico-basal epithelial polarity by the microtubule minus-end-binding protein CAMSAP3 and spectraplaklin ACF7. *J Cell Sci*, 2016. 129: 4278-4288.
98. Liu Q, Liu F, Yu KL, Tas R, Grigoriev I, Remmelzwaal S, Serra-Marques A, Kapitein LC, Heck AJ, and **Akhmanova A**. MICAL3 Flavoprotein Monooxygenase Forms a Complex with Centralspindlin and Regulates Cytokinesis. *J Biol Chem*, 2016. 291: 20617-29.
99. Kuijpers M, van de Willige D, Freal A, Chazeau A, Franker MA, Hofenk J, Rodrigues RJ, Kapitein LC, **Akhmanova A**, Jaarsma D, and Hoogenraad CC. Dynein Regulator NDEL1 Controls Polarized Cargo Transport at the Axon Initial Segment. *Neuron*, 2016. 89: 461-71.
100. Hoogenraad CC and **Akhmanova A**. Bicaudal D Family of Motor Adaptors: Linking Dynein Motility to Cargo Binding. *Trends Cell Biol*, 2016. 26: 327-340.
101. Guesdon A, Bazile F, Buey RM, Mohan R, Monier S, Garcia RR, Angevin M, Heichette C, Wieneke R, Tampe R, Duchesne L, **Akhmanova A**, Steinmetz MO, and Chretien D. EB1 interacts with outwardly curved and straight regions of the microtubule lattice. *Nat Cell Biol*, 2016. 18: 1102-8.
102. Doodhi H, Prota AE, Rodriguez-Garcia R, Xiao H, Custar DW, Bargsten K, Katrukha EA, Hilbert M, Hua S, Jiang K, Grigoriev I, Yang CH, Cox D, Horwitz SB, Kapitein LC, **Akhmanova A**, and Steinmetz MO. Termination of Protofilament Elongation by Eribulin Induces Lattice Defects that Promote Microtubule Catastrophes. *Curr Biol*, 2016. 26: 1713-1721.
103. Bouchet BP, Noordstra I, van Amersfoort M, Katrukha EA, Ammon YC, Ter Hoeve ND, Hodgson L, Dogterom M, Derksen PWB, and **Akhmanova A**. Mesenchymal Cell Invasion Requires Cooperative Regulation of Persistent Microtubule Growth by SLAIN2 and CLASP1. *Dev Cell*, 2016. 39: 708-723.
104. Bouchet BP, Gough RE, Ammon YC, van de Willige D, Post H, Jacquemet G, Altelaar AM, Heck AJ, Goult BT, and **Akhmanova A**. Talin-KANK1 interaction controls the recruitment of cortical microtubule stabilizing complexes to focal adhesions. *Elife*, 2016. 5
105. Bianchi S, van Riel WE, Kraatz SH, Olieric N, Frey D, Katrukha EA, Jaussi R, Missimer J, Grigoriev I, Olieric V, Benoit RM, Steinmetz MO, **Akhmanova A**, and Kammerer RA. Structural basis for misregulation of kinesin KIF21A autoinhibition by CFEOM1 disease mutations. *Sci Rep*, 2016. 6: 30668.
106. **Akhmanova A** and van den Heuvel S. Tipping the spindle into the right position. *J Cell Biol*, 2016. 213: 293-5.
107. van Beuningen SFB, Will L, Harterink M, Chazeau A, van Battum EY, Frias CP, Franker MAM, Katrukha EA, Stucchi R, Vocking K, Antunes AT, Slenders L, Doukeridou S, Sillevius Smitt P, Altelaar AFM, Post JA, **Akhmanova A**, Pasterkamp RJ, Kapitein LC, de Graaff E, and Hoogenraad CC. TRIM46 Controls Neuronal Polarity and Axon Specification by Driving the Formation of Parallel Microtubule Arrays. *Neuron*, 2015. 88: 1208-1226.
108. The I, Ruijtenberg S, Bouchet BP, Cristobal A, Prinsen MB, van Mourik T, Koreth J, Xu H, Heck AJ, **Akhmanova A**, Cuppen E, Boxem M, Munoz J, and van den Heuvel S. Rb and FZR1/Cdh1 determine CDK4/6-cyclin D requirement in *C. elegans* and human cancer cells. *Nat Commun*, 2015. 6: 5906.
109. Long Y, Smet W, Cruz-Ramirez A, Castelijn B, de Jonge W, Mahonen AP, Bouchet BP, Perez GS, **Akhmanova A**, Scheres B, and Blilou I. Arabidopsis BIRD Zinc Finger Proteins Jointly Stabilize Tissue Boundaries by Confining the Cell Fate Regulator SHORT-ROOT and Contributing to Fate Specification. *Plant Cell*, 2015. 27: 1185-99.
110. Long Y, Goedhart J, Schneijderberg M, Terpstra I, Shimotohno A, Bouchet BP, **Akhmanova A**, Gadella TW, Jr., Heidstra R, Scheres B, and Blilou I. SCARECROW-

- LIKE23 and SCARECROW jointly specify endodermal cell fate but distinctly control SHORT-ROOT movement. *Plant J*, 2015. 84: 773-84.
111. **Akhmanova A** and Steinmetz MO. Control of microtubule organization and dynamics: two ends in the limelight. *Nat Rev Mol Cell Biol*, 2015. 16: 711-26.
  112. **Akhmanova A** and Hoogenraad CC. Microtubule minus-end-targeting proteins. *Curr Biol*, 2015. 25: R162-71.
  113. Yau KW, van Beuningen SF, Cunha-Ferreira I, Cloin BM, van Battum EY, Will L, Schatzle P, Tas RP, van Krugten J, Katrukha EA, Jiang K, Wulf PS, Mikhaylova M, Harterink M, Pasterkamp RJ, **Akhmanova A**, Kapitein LC, and Hoogenraad CC. Microtubule minus-end binding protein CAMSAP2 controls axon specification and dendrite development. *Neuron*, 2014. 82: 1058-73.
  114. Van Battum EY, Gunput RA, Lemstra S, Groen EJ, Yu KL, Adolfs Y, Zhou Y, Hoogenraad CC, Yoshida Y, Schachner M, **Akhmanova A**, and Pasterkamp RJ. The intracellular redox protein MICAL-1 regulates the development of hippocampal mossy fibre connections. *Nat Commun*, 2014. 5: 4317.
  115. Schlager MA, Serra-Marques A, Grigoriev I, Gumy LF, Esteves da Silva M, Wulf PS, **Akhmanova A**, and Hoogenraad CC. Bicaudal d family adaptor proteins control the velocity of Dynein-based movements. *Cell Rep*, 2014. 8: 1248-56.
  116. Preciado Lopez M, Huber F, Grigoriev I, Steinmetz MO, **Akhmanova A**, Koenderink GH, and Dogterom M. Actin-microtubule coordination at growing microtubule ends. *Nat Commun*, 2014. 5: 4778.
  117. Preciado Lopez M, Huber F, Grigoriev I, Steinmetz MO, **Akhmanova A**, Dogterom M, and Koenderink GH. In vitro reconstitution of dynamic microtubules interacting with actin filament networks. *Methods Enzymol*, 2014. 540: 301-20.
  118. Pedersen LB and **Akhmanova A**. Kif7 keeps cilia tips in shape. *Nat Cell Biol*, 2014. 16: 623-5.
  119. Jiang K, Hua S, Mohan R, Grigoriev I, Yau KW, Liu Q, Katrukha EA, Altelaar AF, Heck AJ, Hoogenraad CC, and **Akhmanova A**. Microtubule minus-end stabilization by polymerization-driven CAMSAP deposition. *Dev Cell*, 2014. 28: 295-309.
  120. Jaarsma D, van den Berg R, Wulf PS, van Erp S, Keijzer N, Schlager MA, de Graaff E, De Zeeuw CI, Pasterkamp RJ, **Akhmanova A**, and Hoogenraad CC. A role for Bicaudal-D2 in radial cerebellar granule cell migration. *Nat Commun*, 2014. 5: 3411.
  121. Doodhi H, Katrukha EA, Kapitein LC, and **Akhmanova A**. Mechanical and geometrical constraints control kinesin-based microtubule guidance. *Curr Biol*, 2014. 24: 322-8.
  122. van Spronsen M, van Battum EY, Kuijpers M, Vangoor VR, Rietman ML, Pothof J, Gumy LF, van Ijcken WF, **Akhmanova A**, Pasterkamp RJ, and Hoogenraad CC. Developmental and activity-dependent miRNA expression profiling in primary hippocampal neuron cultures. *PLoS One*, 2013. 8: e74907.
  123. van Spronsen M, Mikhaylova M, Lipka J, Schlager MA, van den Heuvel DJ, Kuijpers M, Wulf PS, Keijzer N, Demmers J, Kapitein LC, Jaarsma D, Gerritsen HC, **Akhmanova A**, and Hoogenraad CC. TRAK/Milton motor-adaptor proteins steer mitochondrial trafficking to axons and dendrites. *Neuron*, 2013. 77: 485-502.
  124. van der Vaart B, van Riel WE, Doodhi H, Kevenaar JT, Katrukha EA, Gumy L, Bouchet BP, Grigoriev I, Spangler SA, Yu KL, Wulf PS, Wu J, Lansbergen G, van Battum EY, Pasterkamp RJ, Mimori-Kiyosue Y, Demmers J, Olieric N, Maly IV, Hoogenraad CC, and **Akhmanova A**. CFEOM1-associated kinesin KIF21A is a cortical microtubule growth inhibitor. *Dev Cell*, 2013. 27: 145-160.
  125. Shahbazi MN, Megias D, Epifano C, **Akhmanova A**, Gundersen GG, Fuchs E, and Perez-Moreno M. CLASP2 interacts with p120-catenin and governs microtubule dynamics at adherens junctions. *J Cell Biol*, 2013. 203: 1043-61.
  126. Sen I, Veprintsev D, **Akhmanova A**, and Steinmetz MO. End binding proteins are obligatory dimers. *PLoS One*, 2013. 8: e74448.
  127. Molina A, Velot L, Ghouinem L, Abdelkarim M, Bouchet BP, Luissint AC, Bouhrel I, Morel M, Sapharikas E, Di Tommaso A, Honore S, Braguer D, Gruel N, Vincent-Salomon A, Delattre O, Sigal-Zafrani B, Andre F, Terris B, **Akhmanova A**, Di Benedetto M, Nahmias C, and Rodrigues-Ferreira S. ATIP3, a novel prognostic marker of breast cancer

- patient survival, limits cancer cell migration and slows metastatic progression by regulating microtubule dynamics. *Cancer Res*, 2013. 73: 2905-15.
128. Mohan R, Katrukha EA, Doodhi H, Smal I, Meijering E, Kapitein LC, Steinmetz MO, and **Akhmanova A**. End-binding proteins sensitize microtubules to the action of microtubule-targeting agents. *Proc Natl Acad Sci U S A*, 2013. 110: 8900-5.
  129. Larsen J, Grigoriev I, **Akhmanova A**, and Pedersen LB. Analysis of microtubule plus-end-tracking proteins in cilia. *Methods Enzymol*, 2013. 524: 105-22.
  130. Kuijpers M, Yu KL, Teuling E, **Akhmanova A**, Jaarsma D, and Hoogenraad CC. The ALS8 protein VAPB interacts with the ER-Golgi recycling protein YIF1A and regulates membrane delivery into dendrites. *EMBO J*, 2013. 32: 2056-72.
  131. Kapitein LC, van Bergeijk P, Lipka J, Keijzer N, Wulf PS, Katrukha EA, **Akhmanova A**, and Hoogenraad CC. Myosin-V opposes microtubule-based cargo transport and drives directional motility on cortical actin. *Curr Biol*, 2013. 23: 828-34.
  132. Jeffery JM, Grigoriev I, Poser I, van der Horst A, Hamilton N, Waterhouse N, Bleier J, Subramaniam VN, Maly IV, **Akhmanova A**, and Khanna KK. Centrobin regulates centrosome function in interphase cells by limiting pericentriolar matrix recruitment. *Cell Cycle*, 2013. 12: 899-906.
  133. Hu DJ, Baffet AD, Nayak T, **Akhmanova A**, Doye V, and Vallee RB. Dynein recruitment to nuclear pores activates apical nuclear migration and mitotic entry in brain progenitor cells. *Cell*, 2013. 154: 1300-13.
  134. Ferreira JG, Pereira AJ, **Akhmanova A**, and Maiato H. Aurora B spatially regulates EB3 phosphorylation to coordinate daughter cell adhesion with cytokinesis. *J Cell Biol*, 2013. 201: 709-24.
  135. Bulgakova NA, Grigoriev I, Yap AS, **Akhmanova A**, and Brown NH. Dynamic microtubules produce an asymmetric E-cadherin-Bazooka complex to maintain segment boundaries. *J Cell Biol*, 2013. 201: 887-901.
  136. Berends CW, Munoz J, Portegijs V, Schmidt R, Grigoriev I, Boxem M, **Akhmanova A**, Heck AJ, and van den Heuvel S. F-actin asymmetry and the endoplasmic reticulum-associated TCC-1 protein contribute to stereotypic spindle movements in the *Caenorhabditis elegans* embryo. *Mol Biol Cell*, 2013. 24: 2201-15.
  137. **Akhmanova A** and Stearns T. Cell architecture: putting the building blocks together. *Curr Opin Cell Biol*, 2013. 25: 3-5.
  138. van der Vaart B, Franker MA, Kuijpers M, Hua S, Bouchet BP, Jiang K, Grigoriev I, Hoogenraad CC, and **Akhmanova A**. Microtubule plus-end tracking proteins SLAIN1/2 and ch-TOG promote axonal development. *J Neurosci*, 2012. 32: 14722-8.
  139. Splinter D, Razafsky DS, Schlager MA, Serra-Marques A, Grigoriev I, Demmers J, Keijzer N, Jiang K, Poser I, Hyman AA, Hoogenraad CC, King SJ, and **Akhmanova A**. BICD2, dynactin, and LIS1 cooperate in regulating dynein recruitment to cellular structures. *Mol Biol Cell*, 2012. 23: 4226-41.
  140. Ratheesh A, Gomez GA, Priya R, Verma S, Kovacs EM, Jiang K, Brown NH, **Akhmanova A**, Stehbens SJ, and Yap AS. Centralspindlin and alpha-catenin regulate Rho signalling at the epithelial zonula adherens. *Nat Cell Biol*, 2012. 14: 818-828.
  141. Pagano A, Honore S, Mohan R, Berges R, **Akhmanova A**, and Braguer D. Epthilone B inhibits migration of glioblastoma cells by inducing microtubule catastrophes and affecting EB1 accumulation at microtubule plus ends. *Biochem Pharmacol*, 2012. 84: 432-43.
  142. Lui-Roberts WW, Stinchcombe JC, Ritter AT, **Akhmanova A**, Karakesisoglou I, and Griffiths GM. Cytotoxic T lymphocyte effector function is independent of nucleus-centrosome dissociation. *Eur J Immunol*, 2012. 42: 2132-41.
  143. Louwen R, Nieuwenhuis EE, van Marrewijk L, Horst-Kreft D, de Ruiter L, Heikema AP, van Wamel WJ, Wagenaar JA, Endtz HP, Samsom J, van Baarlen P, **Akhmanova A**, and van Belkum A. *Campylobacter jejuni* translocation across intestinal epithelial cells is facilitated by ganglioside-like lipooligosaccharide structures. *Infect Immun*, 2012. 80: 3307-18.
  144. Jiang K, Toedt G, Montenegro Gouveia S, Davey NE, Hua S, van der Vaart B, Grigoriev I, Larsen J, Pedersen LB, Bezstarosti K, Lince-Faria M, Demmers J, Steinmetz MO, Gibson TJ, and **Akhmanova A**. A Proteome-wide screen for mammalian SxIP motif-containing microtubule plus-end tracking proteins. *Curr Biol*, 2012. 22: 1800-7.

145. Huveneers S, Oldenburg J, Spanjaard E, van der Krogt G, Grigoriev I, **Akhmanova A**, Rehmann H, and de Rooij J. Vinculin associates with endothelial VE-cadherin junctions to control force-dependent remodeling. *J Cell Biol*, 2012. 196: 641-52.
146. Buey RM, Sen I, Kortt O, Mohan R, Gfeller D, Veprintsev D, Kretzschmar I, Scheuermann J, Neri D, Zoete V, Michielin O, de Pereda JM, **Akhmanova A**, Volkmer R, and Steinmetz MO. Sequence determinants of a microtubule tip localization signal (MtLS). *J Biol Chem*, 2012. 287: 28227-42.
147. Yu KL, Keijzer N, Hoogenraad CC, and **Akhmanova A**. Isolation of novel +TIPs and their binding partners using affinity purification techniques. *Methods Mol Biol*, 2011. 777: 293-316.
148. van der Vaart B, Manatschal C, Grigoriev I, Olieric V, Gouveia SM, Bjelic S, Demmers J, Vorobjev I, Hoogenraad CC, Steinmetz MO, and **Akhmanova A**. SLAIN2 links microtubule plus end-tracking proteins and controls microtubule growth in interphase. *J Cell Biol*, 2011. 193: 1083-99.
149. Tanenbaum ME, Medema RH, and **Akhmanova A**. Regulation of localization and activity of the microtubule depolymerase MCAK. *Bioarchitecture*, 2011. 1: 80-87.
150. Tanenbaum ME, Macurek L, van der Vaart B, Galli M, **Akhmanova A**, and Medema RH. A complex of Kif18b and MCAK promotes microtubule depolymerization and is negatively regulated by Aurora kinases. *Curr Biol*, 2011. 21: 1356-65.
151. Tanenbaum ME, **Akhmanova A**, and Medema RH. Bi-directional transport of the nucleus by dynein and kinesin-1. *Commun Integr Biol*, 2011. 4: 21-5.
152. Spangler SA, Jaarsma D, De Graaff E, Wulf PS, **Akhmanova A**, and Hoogenraad CC. Differential expression of liprin-alpha family proteins in the brain suggests functional diversification. *J Comp Neurol*, 2011. 519: 3040-60.
153. Schroder JM, Larsen J, Komarova Y, **Akhmanova A**, Thorsteinsson RI, Grigoriev I, Manguso R, Christensen ST, Pedersen SF, Geimer S, and Pedersen LB. EB1 and EB3 promote cilia biogenesis by several centrosome-related mechanisms. *J Cell Sci*, 2011. 124: 2539-51.
154. Lomakin AJ, Kraikivski P, Semenova I, Ikeda K, Zaliapin I, Tirnauer JS, **Akhmanova A**, and Rodionov V. Stimulation of the CLIP-170--dependent capture of membrane organelles by microtubules through fine tuning of microtubule assembly dynamics. *Mol Biol Cell*, 2011. 22: 4029-37.
155. Kovacs EM, Verma S, Ali RG, Ratheesh A, Hamilton NA, **Akhmanova A**, and Yap AS. N-WASP regulates the epithelial junctional actin cytoskeleton through a non-canonical post-nucleation pathway. *Nat Cell Biol*, 2011. 13: 934-43.
156. Kapitein LC, Yau KW, Gouveia SM, van der Zwan WA, Wulf PS, Keijzer N, Demmers J, Jaworski J, **Akhmanova A**, and Hoogenraad CC. NMDA receptor activation suppresses microtubule growth and spine entry. *J Neurosci*, 2011. 31: 8194-209.
157. Jiang K and **Akhmanova A**. Microtubule tip-interacting proteins: a view from both ends. *Curr Opin Cell Biol*, 2011. 23: 94-101.
158. Grigoriev I, Yu KL, Martinez-Sanchez E, Serra-Marques A, Smal I, Meijering E, Demmers J, Peranen J, Pasterkamp RJ, van der Sluijs P, Hoogenraad CC, and **Akhmanova A**. Rab6, Rab8, and MICAL3 cooperate in controlling docking and fusion of exocytotic carriers. *Curr Biol*, 2011. 21: 967-74.
159. Buey RM, Mohan R, Leslie K, Walzthoeni T, Missimer JH, Menzel A, Bjelic S, Bargsten K, Grigoriev I, Smal I, Meijering E, Aebersold R, **Akhmanova A**, and Steinmetz MO. Insights into EB1 structure and the role of its C-terminal domain for discriminating microtubule tips from the lattice. *Mol Biol Cell*, 2011. 22: 2912-23.
160. **Akhmanova A** and Steinmetz MO. Microtubule end binding: EBs sense the guanine nucleotide state. *Curr Biol*, 2011. 21: R283-5.
161. **Akhmanova A** and Dogterom M. Kinesins lead aging microtubules to catastrophe. *Cell*, 2011. 147: 966-8.
162. Tanenbaum ME, **Akhmanova A**, and Medema RH. Dynein at the nuclear envelope. *EMBO Rep*, 2010. 11: 649.
163. Splinter D, Tanenbaum ME, Lindqvist A, Jaarsma D, Flotho A, Yu KL, Grigoriev I, Engelsma D, Haasdijk ED, Keijzer N, Demmers J, Fornerod M, Melchior F, Hoogenraad CC, Medema RH, and **Akhmanova A**. Bicaudal D2, dynein, and kinesin-1 associate with

- nuclear pore complexes and regulate centrosome and nuclear positioning during mitotic entry. *PLoS Biol*, 2010. 8: e1000350.
164. Smal I, Grigoriev I, **Akhmanova A**, Niessen WJ, and Meijering E. Microtubule dynamics analysis using kymographs and variable-rate particle filters. *IEEE Trans Image Process*, 2010. 19: 1861-76.
  165. Schlager MA, Kapitein LC, Grigoriev I, Burzynski GM, Wulf PS, Keijzer N, de Graaff E, Fukuda M, Shepherd IT, **Akhmanova A**, and Hoogenraad CC. Pericentrosomal targeting of Rab6 secretory vesicles by Bicaudal-D-related protein 1 (BICDR-1) regulates neuritogenesis. *EMBO J*, 2010. 29: 1637-51.
  166. Montenegro Gouveia S, Leslie K, Kapitein LC, Buey RM, Grigoriev I, Wagenbach M, Smal I, Meijering E, Hoogenraad CC, Wordeman L, Steinmetz MO, and **Akhmanova A**. In vitro reconstitution of the functional interplay between MCAK and EB3 at microtubule plus ends. *Curr Biol*, 2010. 20: 1717-22.
  167. Lee HS, Komarova YA, Nadezhdina ES, Anjum R, Peloquin JG, Schober JM, Danciu O, van Haren J, Galjart N, Gygi SP, **Akhmanova A**, and Borisy GG. Phosphorylation controls autoinhibition of cytoplasmic linker protein-170. *Mol Biol Cell*, 2010. 21: 2661-73.
  168. Hotta A, Kawakatsu T, Nakatani T, Sato T, Matsui C, Sukezane T, Akagi T, Hamaji T, Grigoriev I, **Akhmanova A**, Takai Y, and Mimori-Kiyosue Y. Laminin-based cell adhesion anchors microtubule plus ends to the epithelial cell basal cortex through LL5alpha/beta. *J Cell Biol*, 2010. 189: 901-17.
  169. Hoogenraad CC and **Akhmanova A**. Dendritic spine plasticity: new regulatory roles of dynamic microtubules. *Neuroscientist*, 2010. 16: 650-61.
  170. Grigoriev I and **Akhmanova A**. Microtubule dynamics at the cell cortex probed by TIRF microscopy. *Methods Cell Biol*, 2010. 97: 91-109.
  171. Gouveia SM and **Akhmanova A**. Cell and molecular biology of microtubule plus end tracking proteins: end binding proteins and their partners. *Int Rev Cell Mol Biol*, 2010. 285: 1-74.
  172. De Groot CO, Jelesarov I, Damberger FF, Bjelic S, Scharer MA, Bhavesh NS, Grigoriev I, Buey RM, Wuthrich K, Capitani G, **Akhmanova A**, and Steinmetz MO. Molecular insights into mammalian end-binding protein heterodimerization. *J Biol Chem*, 2010. 285: 5802-14.
  173. **Akhmanova A** and Steinmetz MO. Microtubule +TIPs at a glance. *J Cell Sci*, 2010. 123: 3415-9.
  174. **Akhmanova A** and Hammer JA, 3rd. Linking molecular motors to membrane cargo. *Curr Opin Cell Biol*, 2010. 22: 479-87.
  175. van der Vaart B, **Akhmanova A**, and Straube A. Regulation of microtubule dynamic instability. *Biochem Soc Trans*, 2009. 37: 1007-13.
  176. Stehbens SJ, **Akhmanova A**, and Yap AS. Microtubules and cadherins: a neglected partnership. *Front Biosci (Landmark Ed)*, 2009. 14: 3159-67.
  177. Smal I, Grigoriev I, **Akhmanova A**, Niessen WJ, and Meijering E. Accurate estimation of microtubule dynamics using kymographs and variable-rate particle filters. *Annu Int Conf IEEE Eng Med Biol Soc*, 2009. 2009: 1012-5.
  178. Lomakin AJ, Semenova I, Zaliapin I, Kraikivski P, Nadezhdina E, Slepchenko BM, **Akhmanova A**, and Rodionov V. CLIP-170-dependent capture of membrane organelles by microtubules initiates minus-end directed transport. *Dev Cell*, 2009. 17: 323-33.
  179. Komarova Y, De Groot CO, Grigoriev I, Gouveia SM, Munteanu EL, Schober JM, Honnappa S, Buey RM, Hoogenraad CC, Dogterom M, Borisy GG, Steinmetz MO, and **Akhmanova A**. Mammalian end binding proteins control persistent microtubule growth. *J Cell Biol*, 2009. 184: 691-706.
  180. Jaworski J, Kapitein LC, Gouveia SM, Dortland BR, Wulf PS, Grigoriev I, Camera P, Spangler SA, Di Stefano P, Demmers J, Krugers H, Defilippi P, **Akhmanova A**, and Hoogenraad CC. Dynamic microtubules regulate dendritic spine morphology and synaptic plasticity. *Neuron*, 2009. 61: 85-100.
  181. Honnappa S, Gouveia SM, Weisbrich A, Damberger FF, Bhavesh NS, Jawhari H, Grigoriev I, van Rijssel FJ, Buey RM, Lawera A, Jelesarov I, Winkler FK, Wuthrich K, **Akhmanova A**, and Steinmetz MO. An EB1-binding motif acts as a microtubule tip localization signal. *Cell*, 2009. 138: 366-76.

182. **Akhmanova A**, Stehbens SJ, and Yap AS. Touch, grasp, deliver and control: functional cross-talk between microtubules and cell adhesions. *Traffic*, 2009. 10: 268-74.
183. Teuling E, van Dis V, Wulf PS, Haasdijk ED, **Akhmanova A**, Hoogenraad CC, and Jaarsma D. A novel mouse model with impaired dynein/dynactin function develops amyotrophic lateral sclerosis (ALS)-like features in motor neurons and improves lifespan in SOD1-ALS mice. *Hum Mol Genet*, 2008. 17: 2849-62.
184. Steinmetz MO and **Akhmanova A**. Capturing protein tails by CAP-Gly domains. *Trends Biochem Sci*, 2008. 33: 535-45.
185. Steenbakkens PJ, Irving JA, Harhangi HR, Swinkels WJ, **Akhmanova A**, Dijkerman R, Jetten MS, van der Drift C, Whisstock JC, and Op den Camp HJ. A serpin in the cellulosome of the anaerobic fungus *Piromyces* sp. strain E2. *Mycol Res*, 2008. 112: 999-1006.
186. Smal I, Meijering E, Draegestein K, Galjart N, Grigoriev I, **Akhmanova A**, van Royen ME, Houtsmuller AB, and Niessen W. Multiple object tracking in molecular bioimaging by Rao-Blackwellized marginal particle filtering. *Med Image Anal*, 2008. 12: 764-77.
187. Jaworski J, Hoogenraad CC, and **Akhmanova A**. Microtubule plus-end tracking proteins in differentiated mammalian cells. *Int J Biochem Cell Biol*, 2008. 40: 619-37.
188. Grigoriev I, Gouveia SM, van der Vaart B, Demmers J, Smyth JT, Honnappa S, Splinter D, Steinmetz MO, Putney JW, Jr., Hoogenraad CC, and **Akhmanova A**. STIM1 is a MT-plus-end-tracking protein involved in remodeling of the ER. *Curr Biol*, 2008. 18: 177-82.
189. Draegestein KA, van Cappellen WA, van Haren J, Tsibidis GD, **Akhmanova A**, Knoch TA, Grosveld F, and Galjart N. Dynamic behavior of GFP-CLIP-170 reveals fast protein turnover on microtubule plus ends. *J Cell Biol*, 2008. 180: 729-37.
190. Dhonukshe P, Grigoriev I, Fischer R, Tominaga M, Robinson DG, Hasek J, Paciorek T, Petrasek J, Seifertova D, Tejos R, Meisel LA, Zazimalova E, Gadella TW, Jr., Stierhof YD, Ueda T, Oiwa K, **Akhmanova A**, Brock R, Spang A, and Friml J. Auxin transport inhibitors impair vesicle motility and actin cytoskeleton dynamics in diverse eukaryotes. *Proc Natl Acad Sci U S A*, 2008. 105: 4489-94.
191. **Akhmanova A** and Yap AS. Organizing junctions at the cell-cell interface. *Cell*, 2008. 135: 791-3.
192. **Akhmanova A** and Steinmetz MO. Tracking the ends: a dynamic protein network controls the fate of microtubule tips. *Nat Rev Mol Cell Biol*, 2008. 9: 309-22.
193. Weisbrich A, Honnappa S, Jaussi R, Okhrimenko O, Frey D, Jelesarov I, **Akhmanova A**, and Steinmetz MO. Structure-function relationship of CAP-Gly domains. *Nat Struct Mol Biol*, 2007. 14: 959-67.
194. Wanschers BF, van de Vorstenbosch R, Schlager MA, Splinter D, **Akhmanova A**, Hoogenraad CC, Wieringa B, and Fransen JA. A role for the Rab6B Bicaudal-D1 interaction in retrograde transport in neuronal cells. *Exp Cell Res*, 2007. 313: 3408-20.
195. Tsvetkov AS, Samsonov A, **Akhmanova A**, Galjart N, and Popov SV. Microtubule-binding proteins CLASP1 and CLASP2 interact with actin filaments. *Cell Motil Cytoskeleton*, 2007. 64: 519-30.
196. Teuling E, Ahmed S, Haasdijk E, Demmers J, Steinmetz MO, **Akhmanova A**, Jaarsma D, and Hoogenraad CC. Motor neuron disease-associated mutant vesicle-associated membrane protein-associated protein (VAP) B recruits wild-type VAPs into endoplasmic reticulum-derived tubular aggregates. *J Neurosci*, 2007. 27: 9801-15.
197. Schober JM, Komarova YA, Chaga OY, **Akhmanova A**, and Borisy GG. Microtubule-targeting-dependent reorganization of filopodia. *J Cell Sci*, 2007. 120: 1235-44.
198. Grigoriev I, Splinter D, Keijzer N, Wulf PS, Demmers J, Ohtsuka T, Modesti M, Maly IV, Grosveld F, Hoogenraad CC, and **Akhmanova A**. Rab6 regulates transport and targeting of exocytotic carriers. *Dev Cell*, 2007. 13: 305-14.
199. Efimov A, Kharitonov A, Efimova N, Loncarek J, Miller PM, Andreyeva N, Gleeson P, Galjart N, Maia AR, McLeod IX, Yates JR, 3rd, Maiato H, Khodjakov A, **Akhmanova A**, and Kaverina I. Asymmetric CLASP-dependent nucleation of noncentrosomal microtubules at the trans-Golgi network. *Dev Cell*, 2007. 12: 917-30.
200. Stehbens SJ, Paterson AD, Crampton MS, Shewan AM, Ferguson C, **Akhmanova A**, Parton RG, and Yap AS. Dynamic microtubules regulate the local concentration of E-cadherin at cell-cell contacts. *J Cell Sci*, 2006. 119: 1801-11.

201. Mimori-Kiyosue Y, Grigoriev I, Sasaki H, Matsui C, **Akhmanova A**, Tsukita S, and Vorobjev I. Mammalian CLASPs are required for mitotic spindle organization and kinetochore alignment. *Genes Cells*, 2006. 11: 845-57.
202. Lansbergen G, Grigoriev I, Mimori-Kiyosue Y, Ohtsuka T, Higa S, Kitajima I, Demmers J, Galjart N, Houtsmuller AB, Grosveld F, and **Akhmanova A**. CLASPs attach microtubule plus ends to the cell cortex through a complex with LL5beta. *Dev Cell*, 2006. 11: 21-32.
203. Lansbergen G and **Akhmanova A**. Microtubule plus end: a hub of cellular activities. *Traffic*, 2006. 7: 499-507.
204. Drabek K, van Ham M, Stepanova T, Draegestein K, van Horssen R, Sayas CL, **Akhmanova A**, Ten Hagen T, Smits R, Fodde R, Grosveld F, and Galjart N. Role of CLASP2 in microtubule stabilization and the regulation of persistent motility. *Curr Biol*, 2006. 16: 2259-64.
205. Mimori-Kiyosue Y, Grigoriev I, Lansbergen G, Sasaki H, Matsui C, Severin F, Galjart N, Grosveld F, Vorobjev I, Tsukita S, and **Akhmanova A**. CLASP1 and CLASP2 bind to EB1 and regulate microtubule plus-end dynamics at the cell cortex. *J Cell Biol*, 2005. 168: 141-53.
206. Komarova Y, Lansbergen G, Galjart N, Grosveld F, Borisy GG, and **Akhmanova A**. EB1 and EB3 control CLIP dissociation from the ends of growing microtubules. *Mol Biol Cell*, 2005. 16: 5334-45.
207. Feng R, Tang X, Becker A, Berger A, Ye J, **Akhmanova A**, and Hennig W. Regulation of the expression of histone H3.3 by differential polyadenylation. *Genome*, 2005. 48: 503-10.
208. **Akhmanova A**, Mausset-Bonnefont AL, van Cappellen W, Keijzer N, Hoogenraad CC, Stepanova T, Drabek K, van der Wees J, Mommaas M, Onderwater J, van der Meulen H, Tanenbaum ME, Medema RH, Hoogerbrugge J, Vreeburg J, Uringa EJ, Grootegoed JA, Grosveld F, and Galjart N. The microtubule plus-end-tracking protein CLIP-170 associates with the spermatid manchette and is essential for spermatogenesis. *Genes Dev*, 2005. 19: 2501-15.
209. **Akhmanova A** and Hoogenraad CC. Microtubule plus-end-tracking proteins: mechanisms and functions. *Curr Opin Cell Biol*, 2005. 17: 47-54.
210. Lansbergen G, Komarova Y, Modesti M, Wyman C, Hoogenraad CC, Goodson HV, Lemaitre RP, Drechsel DN, van Munster E, Gadella TW, Jr., Grosveld F, Galjart N, Borisy GG, and **Akhmanova A**. Conformational changes in CLIP-170 regulate its binding to microtubules and dynactin localization. *J Cell Biol*, 2004. 166: 1003-14.
211. Hoogenraad CC, **Akhmanova A**, Galjart N, and De Zeeuw CI. LIMK1 and CLIP-115: linking cytoskeletal defects to Williams syndrome. *Bioessays*, 2004. 26: 141-50.
212. Boxma B, Voncken F, Jannink S, van Alen T, **Akhmanova A**, van Weelden SW, van Hellemond JJ, Ricard G, Huynen M, Tielens AG, and Hackstein JH. The anaerobic chytridiomycete fungus *Piromyces* sp. E2 produces ethanol via pyruvate:formate lyase and an alcohol dehydrogenase E. *Mol Microbiol*, 2004. 51: 1389-99.
213. **Akhmanova A** and Severin F. Thirteen is the lucky number for doublecortin. *Dev Cell*, 2004. 7: 5-6.
214. Stepanova T, Slemmer J, Hoogenraad CC, Lansbergen G, Dortland B, De Zeeuw CI, Grosveld F, van Cappellen G, **Akhmanova A**, and Galjart N. Visualization of microtubule growth in cultured neurons via the use of EB3-GFP (end-binding protein 3-green fluorescent protein). *J Neurosci*, 2003. 23: 2655-64.
215. Hoogenraad CC, Wulf P, Schiefermeier N, Stepanova T, Galjart N, Small JV, Grosveld F, de Zeeuw CI, and **Akhmanova A**. Bicaudal D induces selective dynein-mediated microtubule minus end-directed transport. *EMBO J*, 2003. 22: 6004-15.
216. Harhangi HR, Freelove AC, Ubhayasekera W, van Dinther M, Steenbakkers PJ, **Akhmanova A**, van der Drift C, Jetten MS, Mowbray SL, Gilbert HJ, and Op den Camp HJ. Cel6A, a major exoglucanase from the cellulosome of the anaerobic fungi *Piromyces* sp. E2 and *Piromyces equi*. *Biochim Biophys Acta*, 2003. 1628: 30-9.
217. Harhangi HR, **Akhmanova AS**, Emmens R, van der Drift C, de Laat WT, van Dijken JP, Jetten MS, Pronk JT, and Op den Camp HJ. Xylose metabolism in the anaerobic fungus *Piromyces* sp. strain E2 follows the bacterial pathway. *Arch Microbiol*, 2003. 180: 134-41.



218. Harhangi HR, **Akhmanova A**, Steenbakkens PJ, Jetten MS, van der Drift C, and Op den Camp HJ. Genomic DNA analysis of genes encoding (hemi-)cellulolytic enzymes of the anaerobic fungus *Piromyces* sp. E2. *Gene*, 2003. 314: 73-80.
219. Voncken FG, Boxma B, van Hoek AH, **Akhmanova AS**, Vogels GD, Huynen M, Veenhuis M, and Hackstein JH. A hydrogenosomal [Fe]-hydrogenase from the anaerobic chytrid *Neocallimastix* sp. L2. *Gene*, 2002. 284: 103-12.
220. Voncken F, Boxma B, Tjaden J, **Akhmanova A**, Huynen M, Verbeek F, Tielens AG, Haferkamp I, Neuhaus HE, Vogels G, Veenhuis M, and Hackstein JH. Multiple origins of hydrogenosomes: functional and phylogenetic evidence from the ADP/ATP carrier of the anaerobic chytrid *Neocallimastix* sp. *Mol Microbiol*, 2002. 44: 1441-54.
221. Matanis T, **Akhmanova A**, Wulf P, Del Nery E, Weide T, Stepanova T, Galjart N, Grosveld F, Goud B, De Zeeuw CI, Barnekow A, and Hoogenraad CC. Bicaudal-D regulates COPI-independent Golgi-ER transport by recruiting the dynein-dynactin motor complex. *Nat Cell Biol*, 2002. 4: 986-92.
222. Komarova YA, **Akhmanova AS**, Kojima S, Galjart N, and Borisy GG. Cytoplasmic linker proteins promote microtubule rescue in vivo. *J Cell Biol*, 2002. 159: 589-99.
223. Hoogenraad CC, Koekkoek B, **Akhmanova A**, Krugers H, Dortland B, Miedema M, van Alphen A, Kistler WM, Jaegle M, Koutsourakis M, Van Camp N, Verhoye M, van der Linden A, Kaverina I, Grosveld F, De Zeeuw CI, and Galjart N. Targeted mutation of *Cyln2* in the Williams syndrome critical region links CLIP-115 haploinsufficiency to neurodevelopmental abnormalities in mice. *Nat Genet*, 2002. 32: 116-27.
224. Harhangi HR, Steenbakkens PJ, **Akhmanova A**, Jetten MS, van der Drift C, and Op den Camp HJ. A highly expressed family 1 beta-glucosidase with transglycosylation capacity from the anaerobic fungus *Piromyces* sp. E2. *Biochim Biophys Acta*, 2002. 1574: 293-303.
225. Coquelle FM, Caspi M, Cordelieres FP, Dompierre JP, Dujardin DL, Koifman C, Martin P, Hoogenraad CC, **Akhmanova A**, Galjart N, De Mey JR, and Reiner O. LIS1, CLIP-170's key to the dynein/dynactin pathway. *Mol Cell Biol*, 2002. 22: 3089-102.
226. Hoogenraad CC, **Akhmanova A**, Howell SA, Dortland BR, De Zeeuw CI, Willemsen R, Visser P, Grosveld F, and Galjart N. Mammalian Golgi-associated Bicaudal-D2 functions in the dynein-dynactin pathway by interacting with these complexes. *EMBO J*, 2001. 20: 4041-54.
227. Hackstein JH, **Akhmanova A**, Voncken F, van Hoek A, van Alen T, Boxma B, Moon-van der Staay SY, van der Staay G, Leunissen J, Huynen M, Rosenberg J, and Veenhuis M. Hydrogenosomes: convergent adaptations of mitochondria to anaerobic environments. *Zoology (Jena)*, 2001. 104: 290-302.
228. **Akhmanova A**, Hoogenraad CC, Drabek K, Stepanova T, Dortland B, Verkerk T, Vermeulen W, Burgering BM, De Zeeuw CI, Grosveld F, and Galjart N. Clasps are CLIP-115 and -170 associating proteins involved in the regional regulation of microtubule dynamics in motile fibroblasts. *Cell*, 2001. 104: 923-35.
229. van Hoek AH, **Akhmanova AS**, Huynen MA, and Hackstein JH. A mitochondrial ancestry of the hydrogenosomes of *Nyctotherus ovalis*. *Mol Biol Evol*, 2000. 17: 202-6.
230. Hoogenraad CC, **Akhmanova A**, Grosveld F, De Zeeuw CI, and Galjart N. Functional analysis of CLIP-115 and its binding to microtubules. *J Cell Sci*, 2000. 113 ( Pt 12): 2285-97.
231. **Akhmanova A**, Verkerk T, Langeveld A, Grosveld F, and Galjart N. Characterisation of transcriptionally active and inactive chromatin domains in neurons. *J Cell Sci*, 2000. 113 Pt 24: 4463-74.
232. Harhangi HR, Sun X, Wang YX, **Akhmanova A**, Miedema K, Heyting C, and Hennig W. RADHA--a new male germ line-specific chromosomal protein of *Drosophila*. *Chromosoma*, 1999. 108: 235-42.
233. Hackstein JH, **Akhmanova A**, Boxma B, Harhangi HR, and Voncken FG. Hydrogenosomes: eukaryotic adaptations to anaerobic environments. *Trends Microbiol*, 1999. 7: 441-7.
234. **Akhmanova A**, Voncken FG, Hosea KM, Harhangi H, Keltjens JT, op den Camp HJ, Vogels GD, and Hackstein JH. A hydrogenosome with pyruvate formate-lyase: anaerobic chytrid fungi use an alternative route for pyruvate catabolism. *Mol Microbiol*, 1999. 32: 1103-14.

235. **Akhmanova A**, Voncken FG, Harhangi H, Hosea KM, Vogels GD, and Hackstein JH. Cytosolic enzymes with a mitochondrial ancestry from the anaerobic chytrid *Piromyces* sp. E2. *Mol Microbiol*, 1998. 30: 1017-27.
236. **Akhmanova A**, Voncken F, van Alen T, van Hoek A, Boxma B, Vogels G, Veenhuis M, and Hackstein JH. A hydrogenosome with a genome. *Nature*, 1998. 396: 527-8.
237. **Akhmanova A** and Hennig W. *Drosophila melanogaster* histone H2B retroseudogene is inserted into a region rich in transposable elements. *Genome*, 1998. 41: 396-401.
238. **Akhmanova A**, Miedema K, Wang Y, van Bruggen M, Berden JH, Moudrianakis EN, and Hennig W. The localization of histone H3.3 in germ line chromatin of *Drosophila* males as established with a histone H3.3-specific antiserum. *Chromosoma*, 1997. 106: 335-47.
239. **Akhmanova A**, Miedema K, Kremer H, and Hennig W. Two types of polyadenated mRNAs are synthesized from *Drosophila* replication-dependent histone genes. *Eur J Biochem*, 1997. 244: 294-300.
240. **Akhmanova A**, Kremer H, Miedema K, and Hennig W. Naturally occurring testis-specific histone H3 antisense transcripts in *Drosophila*. *Mol Reprod Dev*, 1997. 48: 413-20.
241. **Akhmanova A**, Miedema K, and Hennig W. Identification and characterization of the *Drosophila* histone H4 replacement gene. *FEBS Lett*, 1996. 388: 219-22.
242. Miedema K, Hanske M, **Akhmanova A**, Bindels P, and Hennig W. Minor-myosin, a novel myosin isoform synthesized preferentially in *Drosophila* testis is encoded by the muscle myosin heavy chain gene. *Mech Dev*, 1995. 51: 67-81.
243. **Akhmanova AS**, Bindels PC, Xu J, Miedema K, Kremer H, and Hennig W. Structure and expression of histone H3.3 genes in *Drosophila melanogaster* and *Drosophila hydei*. *Genome*, 1995. 38: 586-600.
244. Miedema K, Harhangi H, Mentzel S, Wilbrink M, **Akhmanova A**, Hooiveld M, Bindels P, and Hennig W. Interspecific sequence comparison of the muscle-myosin heavy-chain genes from *Drosophila hydei* and *Drosophila melanogaster*. *J Mol Evol*, 1994. 39: 357-68.
245. **Akhmanova AS**, Kagramanova VK, and Mankin AS. Heterogeneity of small plasmids from halophilic archaea. *J Bacteriol*, 1993. 175: 1081-6.
246. Spiridonova VA, **Akhmanova AS**, Kagramanova VK, Kopke AK, and Mankin AS. Ribosomal protein gene cluster of *Halobacterium halobium*: nucleotide sequence of the genes coding for S3 and L29 equivalent ribosomal proteins. *Can J Microbiol*, 1989. 35: 153-9.

### **Invited lectures at national and international conferences:**

1. “From Cell to Organism” meeting, Paris, France 2024
2. Seminar “Exploring cytoskeletal mechanisms at all scales of life – from molecules to organisms”, LA Fondation Les Treilles, France, 2024
3. Landmark Lecture, EMBO Conference Series “Microtubules - Structure, Regulation and Functions”, Heidelberg, Germany, 2024
4. ERA chair project ESPERANCE, “Integrative Structural Biology Meeting”, Patras, Greece, 2024
5. Keynote Lecture Joint International GfE/DSDB Meeting, Osnabruck, Germany, 2024
6. Cell Physics 2023, Saarbrücken, Germany 2023
7. Keynote lecture, the Naito Conference “Frontiers of Microtubule and Its Related Motors”, Sapporo, Japan, 2023
8. Keynote lecture, 5th French Microtubule Network Colloquium, Montpellier, France, 2023
9. European Meeting on Intermediate Filaments, Noordwijkerhout, The Netherlands, 2023
10. Keynote lecture, Materials Driven Regeneration Gravitation Consortium Annual Meeting, Thorn, the Netherlands, 2023
11. Course “Tissue and cell size homeostasis and cell growth regulation”, the Curie Institute, Paris, France, 2022
12. Keynote lecture Groningen Biomolecular Sciences & Biotechnology Institute (GBB) Annual Symposium, 2022

13. Centrosomes and spindle pole bodies, EMBO Workshop, Copenhagen, Denmark, 2021
14. Dutch Biophysics, plenary lecture, virtual, 2021
15. Seeing is Believing: Imaging the Molecular Processes of Life, EMBO | EMBL Symposium, virtual, 2021.
16. Collaborative Research Center 944 "Physiology & Dynamics of Cellular Microcompartments", Osnabrück, Germany, 2021.
17. Horizons in Molecular Biology, Göttingen, Germany, virtual, 2021.
18. Congress of the Spanish Biochemical and Molecular Biology Society, FEBS National lecture, virtual, 2021.
19. FEBS Virtual Congress, 2021.
20. Course "Tissue and cell size homeostasis and cell growth regulation", the Curie Institute, Paris, France, virtual, 2021.
21. Cell polarity and membrane dynamics, EMBO workshop, virtual, 2021.
22. Cell Bio Virtual: An Online ASCB|EMBO Meeting, 2020.
23. Keynote Lecture, S4L conference, Utrecht, the Netherlands, 2020- online.
24. IndiaBioscience Young Investigator's Meeting, Mahabalipuram, India, 2020.
25. Keynote lecture, KWF Cancer Biology meeting, Lunteren, the Netherlands, 2019.
26. Mechano-chemical signals in invasion – The Invadosome Consortium, University of Roehampton, London, UK, 2019.
27. Advances in Biomedical Research, Split, Croatia, 2019.
28. From Pole to Pole - DivIDE conference, Barcelona, Spain, 2019.
29. Cell Dynamics: Organelle-Cytoskeleton Interface, Lisbon, Portugal, 2019.
30. Keynote lecture, 6th Zoo meeting: Cell Adhesion and Migration in Inflammation and Cancer, Rotterdam, the Netherlands, 2019
31. Keynote lecture, Annual Meeting Experimental Plant Sciences, Lunteren, the Netherlands, 2019
32. EMBO Keynote Lecture LS2 Annual Meeting Cell Biology from Tissue to Nucleus, Zurich, Switzerland, 2019
33. Reconstitution of the Cytoskeleton In Vitro, Company of Biologists Workshop, Wiston House, UK, 2019.
34. Plenary lecture at the American Society for Cell Biology Annual Meeting, San Diego, USA, 2018.
35. Plenary lecture at the Dutch Chemistry Conference CHAINS 2018, Veldhoven, the Netherlands, 2018
36. Annual CGC & Oncode conference 'From tissues, to cells to molecules: multi-scale visualization of cancer processes' Amsterdam, the Netherlands 2018
37. Keynote Lecture at the 33rd European Cytoskeletal Forum Meeting on "Biology and pathology of the cytoskeleton: the crossroads of three cytoskeletal systems", Prague 2018.
38. Physical Biology of Integrated Systems Meeting, Cargese, Corsica, France, 2018.
39. BioCity symposium "Seeing the invisible", Turku, Finland, 2018
40. Keynote Lecture at the Israeli Forum for Cytoskeleton and cell motility (IFCM), Weizmann Institute, Rehovot, 2018.
41. Plenary Lecture at the 3rd International Symposium on Mechanobiology, 2017, Singapore.
42. Keynote lecture at the EMBO meeting "Frontiers in cytoskeleton research", 2017, Pune, India.
43. EMBO/EMBL Symposium "Mechanical Forces in Biology", 2017, Heidelberg, Germany.
44. FEBS Advanced Course "Functional imaging of cellular signals", 2017, Amsterdam, the Netherlands.
45. Journal of Cell Science conference "Cellular dynamics: membrane-cytoskeleton interface:", 2017, Southbridge, USA.
46. BSDB, BSCB and Genetics Society Joint Meeting, 2017, University of Warwick, UK
47. EMBO Conference Series "Cilia", 2016, Amsterdam, the Netherlands.

48. Keynote lecture at the Gordon Research conference Muscles and Molecular Motors, Mount Snow resort, West Dover, USA, July 2016
49. EMBO Conference Series “Microtubules - Structure, Regulation and Functions”, 2016, Heidelberg, Germany.
50. 14th CRG Symposium – Cellular Machineries, Barcelona, Spain, October 2015
51. EPFL Life Sciences Symposium, Lausanne, Switzerland, September 2015
52. European Cytoskeleton Forum 2015, Postojna, Slovenia, September 2015
53. Microscience Microscopy Congress, MMC2015, Manchester, UK, July 2015.
54. FASEB conference “Mitosis: Spindle Assembly and Function”, Big Sky, Montana, USA
55. CNRS conference “Actin and microtubule cytoskeleton in cell motility and morphogenesis: An integrated view”, Roscoff, France, May 2015
56. 1st International SBCF Meeting “Building the Cell”, Paris, France. September 25, 2014
57. Biophysical Society Thematic meeting “Disordered Motifs and Domains in Cell Control”, October 11-15, 2014, Dublin, Ireland. October 2014
58. Gordon Research conference Muscles and Molecular Motors, 2014, Mount Snow resort, West Dover, USA
59. Gordon Research conference Signaling by Adhesion Receptors, 2014, Bates College, Lewiston, USA
60. Bijvoet Tutorial Symposium, Soesterberg, the Netherlands.
61. Symposium “Life Simplified”, 2014, AMOLF, Amsterdam, the Netherlands.
62. IGC PhD Course on Structural and Molecular Biology. “Regulation of Microtubule Cytoskeleton”, 2014, Oeiras, Portugal.
63. 3<sup>rd</sup> Symposium on Physiology and Dynamics of Cellular Microcompartments, 2013, Utrecht, the Netherlands.
64. The 5<sup>th</sup> EMBO meeting, 2013, Amsterdam, the Netherlands
65. The British Society for Cell Biology meeting on Mechanochemical Cell Biology, 2013, Windermere, UK.
66. Gordon Research conference on Motile & Contractile Systems, 2013, New London, USA.
67. Gordon Research conference on Molecular Membrane Biology, 2013, Proctor Academy, USA.
68. ICTS-TIFR Advanced School on Axonal Transport and Neurodegenerative Disorders, 2013, IIT-Bombay, India.
69. Hunter Cellular Biology meeting, 2012, Pokolbin, Hunter valley, Australia.
70. European Microscopy Congress, 2012, Manchester, UK.
71. International Conference “Linking the Nuclear Envelope to the Cytoskeleton”, 2011, Fondation Les Treilles, France.
72. EMBO conference “Dynamic Endosomes: Mechanisms Controlling Endocytosis”, 2011 Crete, Greece.
73. EMBO members workshop, 2011, Heidelberg, Germany.
74. ASCB Annual Meeting, 2011, 3-7 December, Denver, Colorado, USA. Subgroup Meeting “Posttranslational Regulation of the Cytoskeleton”.
75. Dutch Cell Biology meeting “Molecular Cell Dynamics”, 2010, Amsterdam, The Netherlands.
76. International Workshop “Mechanisms of cytoskeleton dynamics and intracellular trafficking”, 2010, Warsaw, Poland.
77. ESF-EMBO Symposium “Emergent Properties of the Cytoskeleton”, 2010, Sant Feliu, Spain.
78. INSERM Workshop “Microtubule dynamics in cell migration”, 2010, Saint-Raphael, France.

79. FEBS/EMBO Lecture course “The Cytoskeleton in Development and Pathology”, 2010, Djurönäs, Stockholm, Sweden.
80. Lecture course “Cytoskeleton in Cell Division and Migration”, Institut Curie in Paris 2010, Paris, France.
81. EMBO Conference Series “Microtubules - Structure, Regulation and Functions”, 2010, Heidelberg, Germany.
82. 8th EMBO-Annaberg Conference “Protein and Lipid Function in secretion and endocytosis”, 2010, Goldegg, Austria
83. Keynote lecture for the 12th "Young Researchers and Life Science" meeting, 2009, Paris, France.
84. Annual meeting of the Japanese Molecular Biology Society, 2009, Yokohama, Japan.
85. Annual Meeting of the Dutch Microscopy Society (NVvM), 2009, Amsterdam, The Netherlands.
86. CRG Symposium “Imaging approaches to study cytoskeleton dynamics”, 2009, Barcelona, Spain.
87. 3<sup>rd</sup> Mechanobiology Workshop, 2009, Singapore.
88. Annual Dutch Meeting on Molecular and Cellular Biophysics 2009, Veldhoven, The Netherlands
89. Gordon Research conference on Molecular Membrane Biology, 2009, Proctor Academy, USA.
90. Gordon Research conference on Motile & Contractile Systems, 2009, New London, USA.
91. “The Dynamic Cell” meeting of the Biochemical Society and the British Society for Cell Biology, 2009, Edinburgh, UK.
92. 1st Joint Meeting of the German and Swiss Societies of Cell Biology (DGZ/ZMG), 2009, Konstanz, Germany.
93. Subgroup meeting at the European Life Scientist Organisation Meeting, 2008, Nice, France.
94. MCRI Microtubule Dynamics Workshop, 2008, Oxted, UK.
95. Subgroup meeting, American Society for Cell Biology Annual Meeting 2007, Washington DC, USA.
96. Gordon Research conference on Motile & Contractile Systems, 2007, New London, USA.
97. Minisymposium, American Society for Cell Biology Annual Meeting 2006, San Diego, USA.
98. Minisymposium, 78<sup>th</sup> Annual Meeting of the Japanese Biochemical Society, 2005, Kobe, Japan.
99. Minisymposium, American Society for Cell Biology Annual Meeting 2004, Washington DC, USA.
100. Subgroup meeting, American Society for Cell Biology Annual Meeting 2004, Washington DC, USA.
101. Minisymposium, European Life Scientist Organisation Meeting, 2003, Dresden, Germany.

### **Invited seminars:**

1. University of Cologne, Germany, October 2024
2. Georg-August-Universität Göttingen, Germany, May 2024
3. Frontier Seminar Series, Academia Sinica, Taipei, Taiwan, March 2024
4. Princess Máxima Center, Utrecht, The Netherlands, February 2024
5. Netherlands Cancer Institute, Amsterdam, The Netherlands, February 2024

6. University of Tokyo, Japan, July 2023
7. Institute of Molecular Biology, University of Oregon, USA, October 2022, online.
8. Francis Crick Institute, London, UK, March 2022.
9. National Institutes of Health, NHLBI Cell & Developmental Biology Center, December 2021, online
10. University of Oxford, UK, February 2021 - online
11. University of Sheffield, UK, November 2020 – online.
12. Centre for Mechanochemical Cell Biology, Motors in Quarantine – Meet -Your-Heroes. University of Warwick, UK; October 2020 – online.
13. McGill University, Canada, October 2020 – online.
14. EMBO Global Lecture, Institute for Stem Cell Science and Regenerative Medicine (inStem), Bangalore, February 2020.
15. EMBO Global Lecture, Indian Institute of Science Bangalore, India, February 2020.
16. EMBO Global Lecture, Tata Institute of Fundamental Research, Mumbai, India, February 2020.
17. Indian Institute of Technology Bombay, India, February 2020.
18. Janelia Research Campus, USA, January 2020.
19. IST Austria, Klosterneuburg, Austria, December 2019.
20. Ruysch Lecture, Amsterdam UMC, Amsterdam, June 2019.
21. The Rockefeller University, New York, March 2019.
22. National Institutes of Health, Bethesda, March 2019.
23. The University of North Carolina at Chapel Hill, March 2019.
24. Vanderbilt University, Nashville, USA, March 2019.
25. UT Southwestern, Dallas, USA, March 2019.
26. Kings College London, UK, March 2019.
27. University of Nottingham, UK, November 2018.
28. Institute of Human Genetics, France, June 2018.
29. London Molecular Cancer Seminar series, Queen Mary University of London, UK, 2018
30. École Polytechnique Fédérale de Lausanne (EPFL), Switzerland, June 2018
31. University of Munster, Germany, April 2018
32. Tel Aviv University, Israel, March 2018
33. Ben-Gurion University of the Negev, Beer-Sheva, Israel, March 2018
34. The Francis Crick Institute, London, UK, February 2018
35. University of Kent, Canterbury, UK, June 2017
36. Leiden University, the Netherlands, June 2017
37. University of British Columbia, Vancouver, Canada, May 2017
38. GIGA research centre, University of Liège, Belgium, March 2017
39. Brandeis University, Waltham, USA, July 2016
40. Instituto Gulbenkian de Ciência, Oeiras, Portugal, July 2016
41. IST Austria, Klosterneuburg, Austria, April 2016
42. University of Edinburgh, UK, March 2013
43. Institut Pasteur, Paris, France, February 2016
44. Physiology course at Marine Biological Laboratory, Woods Hole, USA, June 2015
45. University of California Berkley, USA, May 2015
46. University of California San Francisco, USA, May 2015
47. University of California San Diego, USA, May 2015
48. University of California Davis, USA, May 2015
49. Radboud University Medical Center, Nijmegen, the Netherlands, 2014.
50. ETH Zurich, Switzerland, 2014.

51. Institut Albert Bonniot, Grenoble, France, 2014.
52. University of Illinois at Chicago, Chicago, USA 2014
53. Northwestern University, Chicago, USA, June 2014
54. University of Pennsylvania, Philadelphia, USA, April 2014.
55. Scripps Research Institute, San Diego, USA, April 2014.
56. Institute Curie, Orsay, France, February 2014.
57. Instituto Gulbenkian de Ciência, Oeiras, Portugal, January 2014.
58. CRG-Center for Genomic Regulation, Barcelona, Spain, June 2013.
59. Medical University Innsbruck, Austria, April 2013.
60. Department of Genetics, University of Cambridge, March 2013
61. University of Turku, Finland, February 2013
62. Tata Institute of Fundamental Research, Mumbai, India, 2013
63. Charité - Universitätsmedizin Berlin, Berlin, Germany, June 2012
64. Temasek Lifesciences Laboratory, Singapore, April 2012.
65. University of Liverpool, UK, March 2013
66. Centre for Mechanochemical Cell Biology, Warwick Medical School, UK, January 2012
67. University of Antwerp, Belgium, January 2012
68. Institut Cochin, Paris, France, November 2011
69. Department of Zoology, University of Cambridge, UK, May 2011
70. Faculty of Life Sciences, University of Manchester, UK, March 2011
71. Wadsworth Center, Albany, USA, December 2010
72. IMP-Research Institute of Molecular Pathology, Vienna, Austria, April 2010
73. University College London, UK, April 2010
74. Nagoya University, Japan, December 2009
75. RIKEN Center for Developmental Biology (CDB), Kobe, Japan, December 2009
76. Physiology course at Marine Biological Laboratory, Woods Hole, USA, July 2009
77. Max-Planck-Institute of Neurobiology, Martinsried, Germany, June 2009
78. Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany, March 2009
79. University of Copenhagen, Denmark, March 2009
80. Centre de Recherches de Biochimie, Montpellier, France, November 2008
81. University of Wageningen, The Netherlands; October 2008
82. Helmholtz Zentrum für Infektionsforschung, Braunschweig, Germany; February 2008
83. Georg-August-Universität Göttingen, Germany; January 2008
84. University of Groningen, The Netherlands; December 2007
85. The Johns Hopkins University, USA; December 2007
86. National Heart, Lung and Blood Institute, National Institutes of Health, Bethesda, USA; December 2007
87. University Medical Center Utrecht, The Netherlands; November 2007
88. Harvard Medical School, Boston, USA; July 2007
89. University of Pennsylvania, Philadelphia, USA; July 2007
90. University of Connecticut Health Center, Farmington, USA; July 2007
91. Marie Curie Research Institute, Oxted, United Kingdom; June 2007
92. Vanderbilt University Medical Center, Nashville, USA, December; 2006.
93. Paul Scherrer Institut, Villigen, Switzerland; October 2006
94. Wellcome Trust Centre for Cell Biology, University of Edinburgh, United Kingdom; June 2006.
95. Institut Curie, Paris, France; April 2006.
96. The Netherlands Cancer Institute, Amsterdam, The Netherlands; January 2006.

97. Kyoto University, Kyoto, Japan; October 2005.
98. Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany; February 2003.
99. Northwestern University Medical School, Chicago, USA; June 2003.
100. Institute of Molecular Biology, Salzburg, Austria; July 2002.