

Geert J.P.L. Kops

18 April 1974, Dongen, The Netherlands

Director, Hubrecht Institute for Developmental Biology and Stem Cell Research
Professor of Molecular Tumor Cell Biology, UMC Utrecht

Academic Positions

2023 (Sep) -	Director of the Hubrecht Institute for Developmental Biology and Stem Cell Research
2020-2023 (Sep)	Head and Scientific Director of Onco Institute
2018-2023 (Sep)	Scientific Director, Onco Institute
2015-	Senior group leader, Hubrecht Institute for Developmental Biology and Stem Cell Research
2011-	Professor Molecular Tumor Cell Biology, UMC Utrecht
8/2014 – 7/2015	Visiting Professor, Fred Hutchinson Cancer Research Center, Seattle, USA
2011- 2014	Head of Laboratory of Medical Oncology, Department of Medical Oncology & Department of Molecular Cancer Research, UMC Utrecht
2007-2011	Associate Professor at the Department of Physiological Chemistry (now Molecular Cancer Research), UMC Utrecht
2005- 2006	Assistant Professor at the Department of Medical Oncology, Laboratory of Experimental Oncology of the UMC Utrecht
2002- 2004	Postdoctoral fellow at the Ludwig Institute for Cancer Research, Dept. of Cell Biology, La Jolla, CA, USA. PI: Prof. Dr. Don W. Cleveland
2001	Postdoctoral researcher at Department of Physiological Chemistry (now Molecular Cancer Research) of the UMC Utrecht. PI: Prof. Dr. Ir. Boudewijn M. T. Burgering

Education

2001	PhD (<i>with highest honours</i>), dept. of Physiological Chemistry, Utrecht University Supervisors Prof. dr. Ir. B. M. T. Burgering & Prof. dr J.L. Bos
1997	MSc (doctorandus (drs.)) in Biology, Utrecht University

Awards & Honourable mentions

2022	NWO-Gravitation ('Zwaartekracht') grant
2020	Cozzarelli Prize for PNAS paper of the year in Class II (Biological Sciences)
2016	Runner-up PhD Supervisor of the Year, Utrecht Life Sciences
2014	KNCV Gold Medal, of the Royal Dutch Chemistry Society
2013	NWO-Vici grant Best Masters course of the Utrecht Graduate School of Life Sciences, for the course 'Chromosome segregation, aneuploidy and cancer' of the CS&D program
2013	Elected to the Young Academy of Europe (YAE)
2011	Runner-up Best Masters course of the Utrecht Graduate School of Life Sciences, for the course 'Chromosome segregation, aneuploidy and cancer' of the CS&D program
2009	ERC grant (prior to StG/CoG distinction)
2006	Von Freyburg Medal (Catharijne Foundation)
2004	NVBMB prize (of the Netherlands Society for Biochemistry and Molecular Biology)
2000	Research stimulation prize for fundamental research, UMC Utrecht

1999 Keystone Symposia Travel Award

Grants

2023 KWF Kankerbestrijding Project Grant (910 k€)
 2022 NWO Gravitation (Zwaartekracht), co-applicant (20M€ total, 1.2M€ share)
 ONO pharmaceuticals Research Collaboration (518k€)
 ZonMW Open competition grant (€770k)
 NWO-ENW-M1 (€355k)
 2020 NWO-ENW-KLEIN1 (357 k€)
 2019 ERC Synergy grant (10M€ total; 3,4M€ share)
 KWF Kankerbestrijding Project Grant (650 k€)
 KWF Kankerbestrijding Project Grant (co-applicant, 660 k€)
 2018 KNAW 3-V equipment fund (51k€)
 2017 KWF Kankerbestrijding Project Grant (630 k€)
 Stichting Sasha Swarttouw stipend (25 k€)
 2016 KWF Kankerbestrijding Project Grant (co-applicant, 790 k€)
 NWO-ALW-Open (260 k€)
 2015 KWF Kankerbestrijding Project Grant (560 k€)
 2014 EU-FP7-Marie Curie Innovative Training Network (ITN). Co-applicant. (280 k€ share)
 2013 NWO-VICI (1500 k€)
 NWO-ALW-Open (260 k€)
 KWF Kankerbestrijding Project Grant (540 k€)
 2012 NWO Zwaartekracht ('Gravitation') grant Cancer Genomics Center Netherlands'
 Co-applicant (480 k€ share)
 TiPharma Value Creation (with NTRC & NKI/AVL) (320 k€)
 KWF Kankerbestrijding Project Grant (540 k€)
 2011 NWO Large-scale research facilities: Proteins@work. Co-applicant (1000 k€ share)
 2009 ERC (European Research Council) Starting Independent Researcher Grant (1570 k€)
 KWF Kankerbestrijding Project Grant (520 k€)
 2008 NPCII grant, from the Netherlands Proteomics Center (280 k€)
 2006 NWO-VIDI (600 k€)
 KWF Kankerbestrijding Project Grant (520 k€)
 2001 KWF Kankerbestrijding fundamental and (pre)clinical cancer research fellowship
 1996 KWF Kankerbestrijding undergraduate scholarship

PhD Supervisor

Present
 Chiara Baggio (expected graduation 2028)
 Anneloes Keijzer (expected graduation 2027)
 Alessandro Corsini (expected graduation 2026)
 Maximilian Raas (expected graduation 2026)
 Lorena Andrade Ruiz (expected graduation 2025)
 Simona Lafirenze (expected graduation 2025)
 Maaïke Lambers (expected graduation 2024)
 Joana Marques (expected graduation 2024)

Past (graduation date)
 Sjoerd Klaasen (23 Feb 2023), Bas de Wolf (15-10-202), Timo Kuijt (20-2-2020), Ana Bolhaqueiro (31-10-2019), Spiros Pachis (24-9-2019), Wilma Hoevenaar (20-6-2019), Richard van Jaarsveld (5-3-2019), Jolien van Hooff (10-12-2018), Banafsheh Etemad (12-12-2017), Eelco Tromer (12-12-2017), Mathijs Vleugel (8-12-2014), Wilco Nijenhuis (28-1-

2014), Tale Sliedrecht (3-12-2013), Aniek Jansen (*with highest honours* 20-12-2012), Saskia Suijkerbuijk (19-6-2012), Nannette Jelluma (10-6-2010)

Courses & Trainings

2018: Media training by RFConsultant

2013: Academic leadership training and coaching program, Eva Wiltingh agency

2011: Valorisation (knowledge utilization) workshop of Utrecht University & UMC Utrecht

Other Academic Activities

Organisation panels scientific conferences

2024 EMBO Conference series on Cellular Signaling & Cancer Therapy (Cavtat, Croatia). Co-organizer, with Ruth Palmer.

2022 ERC synergy workshop on Aneuploidy (Amsterdam, NL)

2018 Lorentz workshop on Evolution of Biomolecular Networks: Rules of the Game (Leiden, NL). Co-organizer, with Liedewij Laan, Michael Lynch, Juliette Azimzadeh and Erwin Frey.

2018 EMBO Conference series on Cellular Signaling & Cancer Therapy (Cavtat, Croatia). Co-organizer, with Maria Sibilica and Fiona Watt.

2018 Oncode Institute Theme Kick-off meeting (Amsterdam, NL). Organizer, with Roland Kanaar and Titia Sixma.

2016 Cancer Genomics Netherlands meeting on Genomic instability in cancer (Amsterdam, NL). Organizer, with René Medema and Puck Knipscheer.

2013 EMBO Workshop on 'Chromosome Segregation and Aneuploidy' (Breukelen, NL). Organizer, with Susanne Lens.

2010-2013 Annual 2-day International Masterclass of the CS&D graduate program.

2009 1st Dynamic Kinetochore Workshop (London, UK). Co-founder and co-organizer, with Andrew McAinsh and Patrick Meraldi.

2005 NVBMB Spring Symposium (Utrecht, NL). Organizer, with René Medema.

Board/Committee Memberships and Chairs

- Supervisory board Foundation Honours Biomedical Sciences Utrecht (2024-present)

- Editorial board *Cells* (2019-present)

- Advisory Editorial Board member *Trends in Cell Biology* (2020-present)

- Chair Oncode Institute Research Management Committee (2018-2023)

- Member NWO-VICI grant panel (2023)

- Cancer Research UK Science Committee Expert Review Panel (2017, 2021, 2022)

- Member Protein Research study group of NWO Chemical Sciences (2017-2020)

- Member Steering committee Hubrecht Imaging Center (2015-2022)

- Editorial board *Molecular and Cellular Biology* (2017-2020)

- Member of tenure committee University of Copenhagen (2016, 2021)

- Member Scientific Council Dutch Cancer Society (KWF Kankerbestrijding) (2013-2019)

- Chair, U/Select Jury, Utrecht University (2017-2018)

- Advisory board Focus Program Cancer (Speerpunt Kanker), UMC Utrecht (2015-2019)

- Member PI recruitment committee, Hubrecht Institute (2016-2018)

- Member UU advisory committee ERC StG/CoG grant applicants (2011-2017)

- Member grant panel Netherlands Organisation for Scientific Research (NWO) ALW Open grants (2017)

- Executive Board Member of the Netherlands Proteomics Center (NPC) (2011-2015)

- Member of selection committee for Associate Directorship IRB, South Korea (2016)

- Member Grant Panel Norwegian Research Council (2013, 2015, 2016)

- Chair of Seminar Committee of the graduate program 'Cancer, Stem Cells and Developmental Biology' (CS&D) of Utrecht University: www.csnd.nl (2009-2012)
- Advisory board IT services, Division Biomedical Genetics, UMC Utrecht (2012-2013)
- Committee member Alexander Suerman program stipend (2012-2014)
- Various local advisory committees (Hubrecht Institute, UMC Utrecht, UU)
- Member of selection committee for awardance of NVBMB prize (2005, 2006)
- Member of committees advising and supervising PhD projects

Teaching

- Organizer of annual course on chromosome segregation, aneuploidy and cancer for the MSc program 'Cancer Genomics and Developmental Biology' of Utrecht University (2008-2020). *Prize for Best Master Course of the Utrecht Graduate School of Life Sciences, 2013.*
- Lecturer and coordinator of 'Biochemistry A' course, section 'Moleculen' (Molecules) for the BSc program Biomedical Sciences of Utrecht University (2009-2014)
- Lecturer of 'Molecular Mechanisms of Cancer' course, for the BSc program Biomedical Sciences of Utrecht University (2011-2014)
- Lecturer of 'Gezonde en Zieke Cellen I' course for BSc program Medicine of Utrecht University (2010-2013).
- Guest Lecturer for NVvO Basiscursus Oncologie (2011-2013)
- Master class for 'Signaling and Techniques in Immunology' of the MSc program 'Infections and Immunology' of Utrecht University (2010-present)
- Guest lecturer for various national and international MSc and PhD courses

Science Outreach

- Author chapter on 'DNA technieken' in the BMW booklet 'Kanker'
- KNAW career event (2020)
- Various activities in role of Scientific Director of OncoCode Institute (2018 - present)
- Organizer 1-day workshop for U-Talent course (High School) on Tumor Biology (2017 - present)
- Lecture for colon cancer Patient Society (2019)
- Interview BNR nieuwsradio (2019)
- Interview for NPO1 KWF StandUp2Cancer television broadcast (2018)
- Participant 'Meet the Professor' day for elementary schools (2017 - present)
- Interview BBC Newsday Radio of the BBC World Services (2017)
- Jury Junior Science Agenda (Junior wetenschapsagenda), Life Sciences (2016)
- Co-organiser/presenter of four Science Workshops for elementary school Annefrankschool, Bunnik, NL (2016)
- Essay 'Cancer's Chromosomal Chaos', published by Atomium Culture (<http://www.atomium-culture.ilsol24ore.com/?p=212>) (2014)
- Co-developer of teaching material on molecular mechanisms in cancer for high school level ('bovenbouw VWO'), together with the science education and communication company 'De Praktijk' (2014) <http://www.allesoverdna.nl/de-gemene-deler.html>
- Lecturer at the 4th national day of the DNA-labs (2013)
- Lecturer for 'KWF vrijwilligers dag' in UMC Utrecht (2013 – 2014)
- Lecturer for 'Moleculen in Leven' (Molecules of Life) course of Junior College Utrecht (2008-2013).
- Expert panel member during Dag van DNA (Day of DNA), 100.000th student of the DNA labs (2012)
- Workshop Scientist for 'De Jonge Akademie on Wheels' (the Young Academy on Wheels), an initiative of the Royal Dutch Academy of Sciences (KNAW) that brings Science to high schools (2012)
- Co-creator of the educational film 'Spying on Cancer, of the Cancer Genomics Center (2012) http://www.youtube.com/watch?v=uo_YfqdUkbY
- Guest-teacher Oosterlicht College, Nieuwegein. Theme: 'Life in the lab of a cancer researcher' (2009)
- Guestspeaker Career Speed Dating event during 'The Dynamic Cell' meeting, Edinburgh, UK (2009)
- Expert for webquest 'Kraak de code' (Break the Code) during symposium 'Het Genoom in Nederland' (The Genome in The Netherlands), oktober kennismaand (2008)

Other

- Research sabbatical at Fred Hutchinson Cancer Research Center, Seattle, USA (*aug 2014 – jul 2015*)
- Research Theme Leader (Cancer Proteomics Theme) of the Netherlands Proteomics Centre (NPC), part of the Netherlands Genomics Initiative. (*2009-2013*)
- Peer reviewer for various international journals (Nature, Science, Cell, Nat Cell Biol, Nat Struct Mol Biol, Mol Cell, Dev Cell, Cancer Discov, Curr Biol, MBoC, MCB, FEBS Lett, PNAS, J Cell Biol, EMBO J, others)
- Peer reviewer for various (inter)national grant foundations (e.g. NWO, KWF, ERC and various European national grant schemes)

Examiner International PhD theses

- 2018 Nikolas Watson, Newcastle University, Newcastle, UK.
- 2018 Mihailo Mirkovic (Raquel Oliveira), Gulbenkian, Lisbon, Portugal
- 2012 Alicja Sochaj (Hardwick lab), University of Edinburgh, UK
- 2011 Ines Ferreira (Bettencourt-Dias lab), Gulbenkian, Lisbon, Portugal
- 2011 Hanna Schutz (Peters lab), IMP, Vienna, Austria
- 2011 Alexandra Bezler (Gonczy lab), EPFL, Lausanne, Switzerland

Teaching at international universities

- 2016 - PhD course, Wellcome Trust Center for Cell Biology, UK
- 2013 - PhD course, Gulbenkian, Lisbon, Portugal
PhD course, Karolinska Institute, Stockholm, Sweden
- 2012 - PhD course, University of Konstanz, Germany
- 2011 - PhD course, IBMC, Porto, Portugal

Invited Lectures

International

- 2024 7th Dynamic Kinetochores workshop, Montreux, Switzerland
Chromosome Instability 2024 meeting, India
Jacques Monod Cell Cycle Conference, Roscoff, France
Forbeck Forum, Aspen (CO), USA
- 2023 Gordon Conference on Cell Growth and Proliferation, USA
ERC Synergy workshop, Zagreb, Croatia
- 2022 EMBO Conference Series 'Cellular Signaling & Molecular Medicine', Cavtat, Croatia
Chromosome segregation and Aneuploidy conference, Vienna, Austria
FASEB Aneuploidy meeting, USA
Chromosome Instability 2022 meeting, Trivandrum, India
Seminar at Helsinki University, Finland
Seminar (on-line) at Dartmouth College, USA
- 2021 Gordon Conference on Cell Growth and Proliferation, USA (cancelled due to COVID-19 pandemic)
TransColoCan meetings, Bucharest, Romania (on-line)
Seminar, Dept Cell and Developmental Biology, Northwestern University, USA (on-line)
- 2020 Seminar at Helsinki University, Helsinki, Finland (cancelled due to COVID-19 pandemic)
EMBO Conference Series 'Cellular Signaling & Molecular Medicine', Cavtat, Croatia (cancelled due to COVID-19 pandemic)
Gordon Conference 'Socially Distant Centromere'
5th annual Chromosome Instability meeting, Trivandrum, India (cancelled due to COVID-19 pandemic)
Aneuploidy Zoom conference

- 2019
 EMBO Workshop on Chromosome Segregation and Aneuploidy, Lisbon, Portugal
 EMBO Workshop on Comparative Genomics of Eukaryotic Microbes, Sant Feliu, Spain
 Conference on Mitotic spindle: From living and synthetic systems to theory, Split, Croatia
 Workshop on Evolutionary Genomics, Vienna, Austria (declined)
 International cell cycle meeting, Trieste, Italy
 Seminar at National University, Galway, Ireland
 Seminar at Newcastle University, Newcastle, UK
- 2018
 EMBO/Royal Society meeting 'Using Genomic Comparisons to Understand Cellular Complexity in our Ancient Ancestors', Buckinghamshire, UK
 Lorentz workshop on Evolution of Biomolecular Networks: Rules of the Game, Leiden, NL.
 EMBO Conference series on Cellular Signaling & Molecular Medicine, Cavtat, Croatia.
 CSH Asia meeting on DNA metabolism, genomic stability and human disease, Suzhou, China.
 JMCB Symposium on Complex Diseases, Shanghai, China.
 USTC Cellular Dynamics Conference, Hefei, China.
 International Dictyostelium meeting, Egmond a/ zee, NL
 Seminar at Gulbenkian Institute, Lisbon, Portugal
 Seminar at Life Sciences Institute, Zhejiang University, Hangzhou, China.
 Seminar at IBMC, Porto, Portugal.
- 2017
 5th Dynamic Kinetochore workshop, Edinburgh, Scotland
 EMBO Conference series on DNA damage response, Cape Sounio, Greece
 'Advances in biomedical research' conference, Split, Croatia
 Jaques Monod conference on the cell cycle, Roscoff, France
 Europhosphatases (declined)
 Seminar, Chromosome Biology Interest Group, Francis Crick Institute, UK
- 2016
 Dynamics of the cytoskeleton workshop, Zagreb, Croatia
 EMBO Workshop on Chromosome Segregation and Aneuploidy, Galway, Ireland
 EMBO Conference Series 'Cellular Signaling & Molecular Medicine', Cavtat, Croatia
 "Causes and consequences of aneuploidy", *Fondation des Treilles*, France (declined)
 IBS symposium, Daejeon, Korea
 Seminar at MPI Dortmund, Germany
 Seminar, PhD program of the Wellcome Trust Center for Cell Biology, Edinburgh, UK
 Seminar Cancer Research UK Manchester Institute, Manchester, UK
- 2015
 FASEB Conference on "Mitosis: Spindle Assembly and Function", Big Sky, USA
 4th Dynamic Kinetochore workshop, Copenhagen, Denmark (declined)
 "Chromatin and Cell Fate" Conference, Essen, Germany
 Seminar at Memorial Sloan Kettering Cancer Center, New York City, USA
 Seminar at University of Pennsylvania, Philadelphia, USA
 Seminar at University of Virginia, Charlottesville, USA
- 2014
 "The mechanisms and regulatory circuits mediating chromosome segregation", *Fondation des Treilles*, France
 CSHL meeting "The Cell Cycle", CSHL, USA
 Seminar at Fred Hutchinson Cancer Research Center, Seattle, USA
 Seminar at the Institute for Cancer Research, Sutton/London, UK.
 Seminar at University of Oxford, UK
- 2013
 108th International Titisee Conference on "Causes and Consequences of Aneuploidy", Titisee, Germany
 The EMBO meeting, Amsterdam, NL
 "Meiosis and chromosome segregation - a mammalian perspective", Stockholm, Sweden
 FEBS advances lecture course "Molecular Mechanisms in Signal Transduction and Cancer", Spetses, Greece
 3rd Dynamic Kinetochore workshop, Porto, Portugal
 CNIO Frontiers Meeting "Chromosome instability and aneuploidy in cancer: from mechanisms to therapeutics", Madrid, Spain

- Biochem Society Conference 'Exploring kinomes: Pseudokinases and Beyond', Cambridge, UK
Seminar at University of Warwick, UK
Seminar, Karolinska Institute, Stockholm, Sweden
Seminar at Gulbenkian Institute of Science, Lisbon, Portugal
- 2012 Jacques Monod Conference 'Cell division: from single molecule mechanics to multicellular organisms', Roscoff, France
EMBO Workshop on Structure, Function and Regulation of Centromeres and Kinetochores, Barcelona, Spain
EMBO Conference Series 'Cellular Signaling & Molecular Medicine', Cavtat, Croatia
Seminar at University of Edinburgh, UK
Seminar at University of Konstanz, Germany
- 2011 'Cell Cycle Regulators/Inhibitors and Cancer' Conference, Vienna, Austria
2nd Dynamic Kinetochose Workshop, Vienna, Austria
Annual Meeting of the German Society for Cell Biology (DGZ), Bonn, Germany
'Cell Cycle & Proliferation' Workshop, Helsinki, Finland
(feb) Seminar at Gulbenkian Institute of Science, Lisbon, Portugal
(dec) Seminar at Gulbenkian Institute of Science, Lisbon, Portugal
Seminar at EPFL, Lausanne, Sui
Seminar at VTT, Turku, Finland
Seminar at IBMC, Porto, Portugal
Seminar at IMP, Vienna, Austria
- 2010 CGC Meeting on 'Molecular Mechanisms of Signal Transduction and Cancer' Amsterdam, NL
'Targeted Cancer Therapy' Symposium, Heidelberg, Germany
ISCO Congress of the International Society for Cellular Oncology, Dresden, Germany
EMBO Workshop on Chromosome Segregation and Aneuploidy, Edinburgh, UK
Jacques Monod Conference 'Cell division: Space and Time', Roscoff, France
Seminar at Mayo Clinic, Rochester, MN, USA
Seminar at Harvard Systems Biology Cambridge, MA, USA
Seminar at Whitehead Inst, Cambridge, USA
Seminar at Oslo University Hospital, Oslo, Norway
- 2009 'The Dynamic Cell', Joint Meeting of the Biochemical Society and the British Society for Cell Biology, University of Edinburgh, UK
1st Dynamic Kinetochose Workshop, London, UK
'Mitosis and Cancer' Symposium, Amsterdam, NL
Seminar at BRIC, Copenhagen, DK
- 2008 XX International Congress of Genetics, Berlin, Germany
ISCO Congress 2008 of the International Society for Cellular Oncology, Amsterdam, NL
Seminar at Cancer Research UK, London, UK
Seminar at Friedrich Miescher Institute, Tubingen, Germany
- Prior to 2008 7th International Chromosome Segregation and Aneuploidy Workshop, Turku, Finland
Seminar at Max Planck Institute, Martinsried, Germany
Seminar at CNRS, Montpellier, France
1st Young Investigator Recruitment Symposium (YIRS), IRIC, Montreal, Canada.
Seminar at Dept of Pathology and Cell Biology, University of Montreal, Montreal, Canada
Seminar at Nervianoms, Milan, Italy
Nature Biotech Winter Symposium 'The Cell Cycle, Chromosomes and Cancer', Miami, USA
ISREC conference: 'Cancer and the cell cycle', Lausanne, Switzerland
Salk 16th annual meeting on oncogenes, La Jolla, USA
NATO/FEBS Workshop 'Molecular Mechanisms of Signal Transduction', Spetses, Greece

National

2023	Oncologie Congres, Utrecht
2022	Princess Máxima Center seminar UMCG PhD retreat Keynote Lecture S4L café seminar, Utrecht
2021	KeyNote seminar Utrecht Life Sciences MSc intro day
2020	NKI Seminar, NKI-AvL, Amsterdam (virtual, due to coronavirus pandemic)
2019	Seminar, NVBMB symposium, Utrecht Seminar, Epigenetic and transcriptional regulation workshop, Radboud UMC Seminar, Yearly congress of GBB research institute, University of Groningen 2 nd congress of the Netherlands Society for Evolutionary Biology (NLSEB)
2018	Seminar, LUMC Leiden UBC symposium, Utrecht Figon Dutch Medicine Days, Ede
2017	Bionanoscience department seminar, TU Delft Aneuploidy symposium, ERIBA, Groningen
2016	Enovate symposium, UMC Utrecht RIMLS Seminar, Radboud University Nijmegen
2015	Van Leeuwenhoek lecture, Leiden University Hidden stories in DNA symposium, Utrecht University
2014	CHAINS (NWO chemical sciences meeting), Velthoven NVvO symposium, Utrecht Cancer Genomics Netherlands Kick-off meeting
2013	Molecular Medicine seminar, ERIBA, Groningen Oncology Seminars, AMC, Amsterdam NKI Seminar, NKI-AvL, Amsterdam CS&D Masterclass, Doorwerth
2010	NPC progress meeting, Utrecht
2009	CBG Progress meeting, Amsterdam
2008	Pathology Seminar, UMC Utrecht Biomolecular Mass Spectrometry seminar, Utrecht
2007	Life Sciences Seminar, Utrecht
2006	NKI-AvL Seminar, NKI, Amsterdam OOB Seminar, Hubrecht Institute, Utrecht AMC Amsterdam
1999	NWO-CW meeting, Lunteren 2 nd growth control and membrane signaling meeting, Utrecht

Publications

2023	108. Chavli EA, Klaasen SJ, Van Opstal D, Kops GJPL* , Baart EB*. Single-cell DNA sequencing reveals a high incidence of numerical and structural chromosomal abnormalities in inner cell mass and trophectoderm of human blastocysts. <i>Submitted</i> . *joint senior authors
	107. Wu J, Raas MWD, Sobrevals Alcaraz P, Vos HR, Tromer EC, Snel B, Kops GJPL . A farnesyl-dependent structural role for CENP-E in expansion of the fibrous corona. <i>Submitted</i>
	106. Tsui H, van Kampen SJ, Han SJ, Meraviglia V, van Ham WB, Casini S, van der Kraak P, Vink A, Yin X, Mayr M, Bossu A, Marchal GA, Monshouwer-Kloots J, Eding J, Versteeg D, de Ruiter H, Bezstarosti K, Groeneweg J, Klaasen SJ, van Laake LW, Demmers JAA, Kops GJPL , Mummery CL, van Veen TAB, Remme CA, Bellin M, van Rooij E. Desmosomal protein degradation as an underlying cause of arrhythmogenic cardiomyopathy. <i>Sci Transl Med</i> 15 (2023), eadd4248.
	105. Küçükköse E, Laoukili J, Gorelick AN, Degner S, Lacle M, van den Bent L, Peters NA, Verheem A, Hung WT, Frenkel NC, Wassenaar E, Lansu N, Lenos KJ, Vermeulen L, Koopman M, Roodhart JML, Kops

GJPL, Borel Rinkes IHM, Hagendoorn J, Naxerova K, Kranenburg O. Lymphatic Invasion of Plakoglobin-Dependent Tumor Cell Clusters Drives Formation of Polyclonal Lung Metastases in Colon Cancer. *Gastroenterology* (2023) S0016-5085(23)00256-1

104. Wu J, Larreategi-Aparicio A, Lambers MLA, Bodor DL, Klaasen SJ, Tollenaar E, De Ruijter-Villani M, **Kops GJPL**. Microtubule nucleation from the fibrous corona by LIC1-pericentrin promotes chromosome congression. *Curr Biol* **33** (2023), 912-925.

Highlighted in:

Dispatch: Renda and Khodjakov. Cell Biology: Kinetochores nucleate their own microtubules. *Curr Biol* **33** (2023), R187-190.

103. McAinsh AD, **Kops GJPL**. Principles and dynamics of spindle assembly checkpoint signaling. *Nat Rev Mol Cell Biol* (2023) in press.

102. Van Rooijen LE, Tromer EC, Van Hooff JJE, **Kops GJPL**, Snel B. Increased sampling and intra-complex homologies favor vertical over horizontal inheritance of the Dam1 complex. *Genome Biol Evo* (2023) in press.

2022

101. Sacristan S, Samejima K, Ruiz LA, Lambers MLA, Buckle A, Brackley CA, Robertson D, Hori T, Webb S, Fukagawa T, Gilbert N, Marenduzzo D, Earnshaw WC, **Kops GJPL**. Condensin reorganizes centromeric chromatin during mitotic entry into a bipartite structure stabilized by cohesin. *BioRxiv* (2022), doi: <https://doi.org/10.1101/2022.08.01.502248>

100. Klaasen SJ, Truong MA, van Jaarsveld RH, Koprivec I, Štimac V, de Vries SG, Risteski P, Kodba S, Vukušić K, de Luca KL, Marques JF, Gerrits EM, Bakker B, Fojier F, Kind J, Tolić IM, Lens SMA, **Kops GJPL**. Nuclear chromosome locations dictate segregation error frequencies. *Nature* **607** (2022), 604-609.

Highlighted in:

News & Views: Guin and Misteli. Location in the nucleus foretells chromosome anomalies. *Nature* **607** (2022), 454-455.

99. Klaasen SJ, **Kops GJPL**. Chromosome inequality: causes and consequences of non-random segregation errors in mitosis and meiosis. *Cells* **11** (2022), 3564.

98. Lenos K, [...18 authors...], **Kops GJPL**, [...17 authors...], Vermeulen L. Molecular characterization of colorectal cancer related peritoneal metastatic disease. *Nat Commun* **13** (2022), 4443.

2021

97. Salas-Leiva DEE, Tromer EC, Curtis BA, Jerlstrom-Hultqvist J, Kolisko M, Yi Z, Salas-Leiva JS, Gallot-Lavallee L, **Kops GJPL**, Archibald JM, Simpson AGB, Roger AJ. A Genomic analysis finds no evidence of canonical eukaryotic DNA processing complexes in a free-living protist. *Nat Commun* **12** (2021), 6003.

96. Bollen Y, Stelloo E, van Leenen P, van den Bos M, Ponsioen B, Lu B, van Roosmalen MJ, Bolhaqueiro ACF, Kimberley C, Mossner M, Cross WCH, Besselink NJM, van der Roest B, Boymans S, Oost KC, de Vries SG, Rehmann H, Cuppen E, Lens SMA, **Kops GJPL**, Kloosterman WP, Terstappen LWMM, Barnes CP, Sottoriva A, Graham TA, Snippert HJG. Reconstructing single-cell karyotype alterations in colorectal cancer identifies punctuated and gradual diversification patterns. *Nat Genet* **53** (2021), 1187-1195.

95. Ramesh P, Lannagan TRM, Jackstadt R, Atencia Taboada L, Lansu N, Wirapati P, van Hooff SR, Dekker D, Pritchard J, Kirov AB, van Neerven SM, Tejpar S, **Kops GJPL**, Sansom OJ, Medema JP. BCL-XL is crucial for progression through the adenoma-to-carcinoma sequence of colorectal cancer. *Cell Death Differ* **28** (2021), 3282-3296.

94. Van Dijk E, Van den Bosch T, Lenos KJ, El Makrini K, Nijman LE, Van Essen HFB, Lansu N, Boekhout M, Hageman JH, Fitzgerald RC, Punt CJA, Tuynman JB, Snippert HJG, **Kops GJPL**, Medema JP, Ylstra B, Vermeulen L, Miedema DM. Chromosomal copy number heterogeneity predicts survival rates across cancers. *Nat Commun* **12** (2021), 3188.

93. Rizzo M, Stout TAE, Cristarella S, Quartuccio M, **Kops GJPL**, De Ruijter-Villani M. Compromised MPS1 Activity Induces Multipolar Spindle Formation in Oocytes From Aged Mares: Establishing the Horse as a Natural Animal Model to Study Age-Induced Oocyte Meiotic Spindle Instability. *Front Cell Dev Biol.* **9** (2021) 657366.
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