# Helder Maiato

List of Publications by Year
in descending order

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|---|---|---|---|
| 107 papers | 6,570 citations | 87888 38 h-index | 71685 76 g-index |
| 124 all docs | 124 docs citations | 124 times ranked | 5977 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mitosis: Kinetochores determined against random search-and-capture. Current Biology, 2022, 32, R231-R234. | 3.9 | 1 |
| 2 | Augmin-dependent microtubule self-organization drives kinetochore fiber maturation in mammals. Cell Reports, 2022, 39, 110610. | 6.4 | 14 |
| 3 | SOGA1 and SOGA2/MTCL1 are CLASP-interacting proteins required for faithful chromosome segregation in human cells. Chromosome Research, 2021, 29, 159-173. | 2.2 | 1 |
| 4 | Chromosomal instability: Stretching the role ofÂcheckpoint silencing. Current Biology, 2021, 31, R386-R389. | 3.9 | 1 |
| 5 | Prometaphase. Seminars in Cell and Developmental Biology, 2021, 117, 52-61. | 5.0 | 12 |
| 6 | Mitosis under the macroscope. Seminars in Cell and Developmental Biology, 2021, 117, 1-5. | 5.0 | 0 |
| 7 | An anaphase surveillance mechanism prevents micronuclei formation from frequent chromosome segregation errors. Cell Reports, 2021, 37, 109783. | 6.4 | 34 |
| 8 | CLASP2 binding to curved microtubule tips promotes flux and stabilizes kinetochore attachments. Journal of Cell Biology, 2020, 219, jcb.201905080. | 5.2 | 20 |
| 9 | The Tubulin Code in Mitosis and Cancer. Cells, 2020, 9, 2356. | 4.1 | 39 |
| 10 | Centrosomeâ€“nuclear axis repositioning drives the assembly of a bipolar spindle scaffold to ensure mitotic fidelity. Molecular Biology of the Cell, 2020, 31, 1675-1690. | 2.1 | 23 |
| 11 | Measurement of Microtubule Half-Life and Poleward Flux in the Mitotic Spindle by Photoactivation of Fluorescent Tubulin. Methods in Molecular Biology, 2020, 2101, 235-246. | 0.9 | 11 |
| 12 | Functional Dissection of Mitosis Using Immortalized Fibroblasts from the Indian Muntjac, a Placental Mammal with Only Three Chromosomes. Methods in Molecular Biology, 2020, 2101, 247-266. | 0.9 | 3 |
| 13 | Î±-Tubulin detyrosination impairs mitotic error correction by suppressing MCAK centromeric activity. Journal of Cell Biology, 2020, 219, . | 5.2 | 30 |
| 14 | Microtubule poleward flux in human cells is driven by the coordinated action of four kinesins. EMBO Journal, 2020, 39, e105432. | 7.8 | 59 |
| 15 | No chromosome left behind: The importance of metaphase alignment for mitotic fidelity. Journal of Cell Biology, 2019, 218, 1086-1088. | 5.2 | 9 |
| 16 | Helder Maiato. Current Biology, 2019, 29, R1165-R1168. | 3.9 | 0 |
| 17 | Acto-myosin force organization modulates centriole separation and PLK4 recruitment to ensure centriole fidelity. Nature Communications, 2019, 10, 52. | 12.8 | 22 |
| 18 | Coherent-hybrid STED: high contrast sub-diffraction imaging using a bi-vortex depletion beam. Optics Express, 2019, 27, 8092. | 3.4 | 29 |

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|---|---|---|---|
| 19 | Spatiotemporal control of mitotic exit during anaphase by an aurora B-Cdk1 crosstalk. ELife, 2019, 8, . | 6.0 | 39 |
| 20 | Chromosome Segregation Is Biased by Kinetochore Size. Current Biology, 2018, 28, 1344-1356.e5. | 3.9 | 94 |
| 21 | Chromokinesins. Current Biology, 2018, 28, R1131-R1135. | 3.9 | 33 |
| 22 | Differential regulation of transition zone and centriole proteins contributes to ciliary base diversity. Nature Cell Biology, 2018, 20, 928-941. | 10.3 | 78 |
| 23 | Dissecting the role of the tubulin code in mitosis. Methods in Cell Biology, 2018, 144, 33-74. | 1.1 | 23 |
| 24 | Mitotic progression, arrest, exit or death relies on centromere structural integrity, rather than de novo transcription. ELife, 2018, 7, . | 6.0 | 18 |
| 25 | Late mitotic functions of Aurora kinases. Chromosoma, 2017, 126, 93-103. | 2.2 | 47 |
| 26 | Actin divides to conquer. Science, 2017, 357, 756-757. | 12.6 | 1 |
| 27 | Cell Division: NuMA Bears the Load in the Spindle. Current Biology, 2017, 27, R765-R767. | 3.9 | 2 |
| 28 | Let there be light. Nature Chemical Biology, 2017, 13, 1058-1059. | 8.0 | 0 |
| 29 | Closing the tubulin detyrosination cycle. Science, 2017, 358, 1381-1382. | 12.6 | 12 |
| 30 | Mechanisms of Chromosome Congression during Mitosis. Biology, 2017, 6, 13. | 2.8 | 139 |
| 31 | Protein Phosphatase 1 inactivates Mps1 to ensure efficient Spindle Assembly Checkpoint silencing. ELife, 2017, 6, . | 6.0 | 46 |
| 32 | Robust gap repair in the contractile ring ensures timely completion of cytokinesis. Journal of Cell Biology, 2016, 215, 789-799. | 5.2 | 35 |
| 33 | A Regulatory Switch Alters Chromosome Motions at the Metaphase-to-Anaphase Transition. Cell Reports, 2016, 17, 1728-1738. | 6.4 | 34 |
| 34 | Miguel Mota (1922â€“2016)â€”the kinetochore engine(er). Chromosome Research, 2016, 24, 281-283. | 2.2 | 0 |
| 35 | The Tubulin Code: A Navigation System for Chromosomes during Mitosis. Trends in Cell Biology, 2016, 26, 766-775. | 7.9 | 60 |
| 36 | Inducible fluorescent speckle microscopy. Journal of Cell Biology, 2016, 212, 245-255. | 5.2 | 4 |

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| 37 | The equatorial position of the metaphase plate ensures symmetric cell divisions. ELife, 2015, 4, . | 6.0 | 19 |
| 38 | Membrane-based mechanisms of mitotic spindle assembly. Communicative and Integrative Biology, 2015, 8, e1112473. | 1.4 | 1 |
| 39 | Microtubule detyrosination guides chromosomes during mitosis. Science, 2015, 348, 799-803. | 12.6 | 202 |
| 40 | Dynein prevents erroneous kinetochore-microtubule attachments in mitosis. Cell Cycle, 2015, 14, 3356-3361. | 2.6 | 17 |
| 41 | Polar Ejection Forces Promote the Conversion from Lateral to End-on Kinetochore-Microtubule Attachments on Mono-oriented Chromosomes. Cell Reports, 2015, 13, 460-468. | 6.4 | 36 |
| 42 | An organelle-exclusion envelope assists mitosis and underlies distinct molecular crowding in the spindle region. Journal of Cell Biology, 2015, 210, 695-704. | 5.2 | 59 |
| 43 | A chromosome separation checkpoint. BioEssays, 2015, 37, 257-266. | 2.5 | 30 |
| 44 | N-terminus-modified Hec1 suppresses tumour growth by interfering with kinetochoreâ€“microtubule dynamics. Oncogene, 2015, 34, 3325-3335. | 5.9 | 9 |
| 45 | Reed-Sternberg Cells Form by Abscission Failure in the Presence of Functional Aurora B Kinase. PLoS ONE, 2015, 10, e0124629. | 2.5 | 11 |
| 46 | Cracking the (tubulin) code of mitosis. Oncotarget, 2015, 6, 19356-19357. | 1.8 | 4 |
| 47 | Plk1 puts a (Has)pin on the mitotic histone code. EMBO Reports, 2014, 15, 203-204. | 4.5 | 9 |
| 48 | Spatial control of the anaphase-telophase transition. Cell Cycle, 2014, 13, 2985-2986. | 2.6 | 2 |
| 49 | The tumour suppressor DLC2 ensures mitotic fidelity by coordinating spindle positioning and cellâ€“cell adhesion. Nature Communications, 2014, 5, 5826. | 12.8 | 20 |
| 50 | The dynamic spindle matrix. Current Opinion in Cell Biology, 2014, 28, 1-7. | 5.4 | 32 |
| 51 | Mitotic spindle multipolarity without centrosome amplification. Nature Cell Biology, 2014, 16, 386-394. | 10.3 | 134 |
| 52 | Kinetochore motors drive congression of peripheral polar chromosomes by overcoming random arm-ejection forces. Nature Cell Biology, 2014, 16, 1249-1256. | 10.3 | 128 |
| 53 | Conformational Mechanism for the Stability of Microtubule-Kinetochore Attachments. Biophysical Journal, 2014, 107, 289-300. | 0.5 | 5 |
| 54 | Microtubule Plus-End Tracking Proteins and Their Roles in Cell Division. International Review of Cell and Molecular Biology, 2014, 309, 59-140. | 3.2 | 22 |

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| 55 | Feedback control of chromosome separation by a midzone Aurora B gradient. Science, 2014, 345, 332-336. | 12.6 | 111 |
| 56 | Drosophila Polo regulates the spindle assembly checkpoint through Mps1-dependent BubR1 phosphorylation. EMBO Journal, 2013, 32, 1761-1777. | 7.8 | 44 |
| 57 | Esperanto for histones: CENP-A, not CenH3, is the centromeric histone H3 variant. Chromosome Research, 2013, 21, 101-106. | 2.2 | 37 |
| 58 | Unbiased about chromosome segregation: give me a mechanism and I will make you â€œimmortalâ€• Chromosome Research, 2013, 21, 189-191. | 2.2 | 1 |
| 59 | Selective tracking of template DNA strands after induction of mitosis with unreplicated genomes (MUGs) in Drosophila S2 cells. Chromosome Research, 2013, 21, 329-337. | 2.2 | 5 |
| 60 | Modulation of Golgiâ€associated microtubule nucleation throughout the cell cycle. Cytoskeleton, 2013, 70, 32-43. | 2.0 | 32 |
| 61 | Establishment and mitotic characterization of new Drosophila acentriolar cell lines from DSas-4 mutant. Biology Open, 2013, 2, 314-323. | 1.2 | 24 |
| 62 | Spindle assembly checkpoint robustness requires Tpr-mediated regulation of Mad1/Mad2 proteostasis. Journal of Cell Biology, 2013, 203, 883-893. | 5.2 | 63 |
| 63 | Helder Maiato: Hot (+)TIPs on mitosis. Journal of Cell Biology, 2013, 202, 722-723. | 5.2 | 0 |
| 64 | Genes involved in centrosome-independent mitotic spindle assembly in Drosophila S2 cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19808-19813. | 7.1 | 62 |
| 65 | Aurora B spatially regulates EB3 phosphorylation to coordinate daughter cell adhesion with cytokinesis. Journal of Cell Biology, 2013, 201, 709-724. | 5.2 | 54 |
| 66 | A nuclear-derived proteinaceous matrix embeds the microtubule spindle apparatus during mitosis. Molecular Biology of the Cell, 2012, 23, 3532-3541. | 2.1 | 26 |
| 67 | Human chromokinesins promote chromosome congression and spindle microtubule dynamics during mitosis. Journal of Cell Biology, 2012, 198, 847-863. | 5.2 | 111 |
| 68 | Cdk1 and Plk1 mediate a CLASP2 phospho-switch that stabilizes kinetochoreâ€“microtubule attachments. Journal of Cell Biology, 2012, 199, 285-301. | 5.2 | 80 |
| 69 | Maturation of the kinetochore-microtubule interface and the meaning of metaphase. Chromosome Research, 2012, 20, 563-577. | 2.2 | 32 |
| 70 | The Microtubule Plus-End Tracking Protein CLASP2 Is Required for Hematopoiesis and Hematopoietic Stem Cell Maintenance. Cell Reports, 2012, 2, 781-788. | 6.4 | 35 |
| 71 | CLASPs prevent irreversible multipolarity by ensuring spindle-pole resistance to traction forces during chromosome alignment. Nature Cell Biology, 2012, 14, 295-303. | 10.3 | 88 |
| 72 | Fluorescent Speckle Microscopy in Cultured Cells. Methods in Enzymology, 2012, 504, 147-161. | 1.0 | 6 |

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| 73 | Imidazole-grafted chitosan-mediated gene delivery: in vitro study on transfection, intracellular trafficking and degradation. Nanomedicine, 2011, 6, 1499-1512. | 3.3 | 25 |
| 74 | Heterochromatin boundaries are hotspots for de novo kinetochore formation. Nature Cell Biology, 2011, 13, 799-808. | 10.3 | 114 |
| 75 | Aurora Mitochondrialis Drives Fission during Mitosis. Developmental Cell, 2011, 21, 387-388. | 7.0 | 1 |
| 76 | Motor-Dependent and -Independent Roles of CENP-E at Kinetochores: The Cautionary Tale of UA62784. Chemistry and Biology, 2011, 18, 679-680. | 6.0 | 5 |
| 77 | Prevention and Correction Mechanisms behind Anaphase Synchrony: Implications for the Genesis of Aneuploidy. Cytogenetic and Genome Research, 2011, 133, 243-253. | 1.1 | 9 |
| 78 | Mitosis: wisdom, knowledge, and information. Cellular and Molecular Life Sciences, 2010, 67, 2141-2143. | 5.4 | 2 |
| 79 | CLASP1, astrin and Kif2b form a molecular switch that regulates kinetochore-microtubule dynamics to promote mitotic progression and fidelity. EMBO Journal, 2010, 29, 3531-3543. | 7.8 | 123 |
| 80 | Improved kymography tools and its applications to mitosis. Methods, 2010, 51, 214-219. | 3.8 | 31 |
| 81 | The perpetual movements of anaphase. Cellular and Molecular Life Sciences, 2010, 67, 2251-2269. | 5.4 | 39 |
| 82 | Drosophila S2 Cells as a Model System to Investigate Mitotic Spindle Dynamics, Architecture, and Function. Methods in Cell Biology, 2010, 97, 243-257. | 1.1 | 12 |
| 83 | Synchronizing chromosome segregation by flux-dependent force equalization at kinetochores. Journal of Cell Biology, 2009, 186, 11-26. | 5.2 | 88 |
| 84 | Spatiotemporal control of mitosis by the conserved spindle matrix protein Megator. Journal of Cell Biology, 2009, 184, 647-657. | 5.2 | 111 |
| 85 | Dynein and Mast/Orbit/CLASP have antagonistic roles in regulating kinetochore-microtubule plus-end dynamics. Journal of Cell Science, 2009, 122, 2543-2553. | 2.0 | 22 |
| 86 | Microtubule Cytoskeleton Remodeling by Acentriolar Microtubule-organizing Centers at the Entry and Exit from Mitosis in Drosophila Somatic Cells. Molecular Biology of the Cell, 2009, 20, 2796-2808. | 2.1 | 39 |
| 87 | Motor-Independent Targeting of CLASPs to Kinetochores by CENP-E Promotes Microtubule Turnover and Poleward Flux. Current Biology, 2009, 19, 1566-1572. | 3.9 | 120 |
| 88 | Chromator is required for proper microtubule spindle formation and mitosis in Drosophila. Developmental Biology, 2009, 334, 253-263. | 2.0 | 26 |
| 89 | Dissecting Mitosis with Laser Microsurgery and RNAi in Drosophila Cells. Methods in Molecular Biology, 2009, 545, 145-164. | 0.9 | 18 |
| 90 | Dual Role of Topoisomerase II in Centromere Resolution and Aurora B Activity. PLoS Biology, 2008, 6, e207. | 5.6 | 65 |

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| 91 | Mitch â€“ a rapidly evolving component of the Ndc80 kinetochore complex required for correct chromosome segregation inDrosophila. Journal of Cell Science, 2007, 120, 3522-3533. | 2.0 | 25 |
| 92 | Asymmetric CLASP-Dependent Nucleation of Noncentrosomal Microtubules at the trans-Golgi Network. Developmental Cell, 2007, 12, 917-930. | 7.0 | 481 |
| 93 | The ultrastructure of the kinetochore and kinetochore fiber in Drosophila somatic cells. Chromosoma, 2006, 115, 469-480. | 2.2 | 56 |
| 94 | Kinetochores Use a Novel Mechanism for Coordinating the Dynamics of Individual Microtubules. Current Biology, 2006, 16, 1217-1223. | 3.9 | 65 |
| 95 | Mammalian CLASP1 and CLASP2 Cooperate to Ensure Mitotic Fidelity by Regulating Spindle and Kinetochore Function. Molecular Biology of the Cell, 2006, 17, 4526-4542. | 2.1 | 116 |
| 96 | Drosophila CLASP is required for the incorporation of microtubule subunits into fluxing kinetochore fibres. Nature Cell Biology, 2005, 7, 42-47. | 10.3 | 176 |
| 97 | Kinetochore-driven formation of kinetochore fibers contributes to spindle assembly during animal mitosis. Journal of Cell Biology, 2004, 167, 831-840. | 5.2 | 284 |
| 98 | Kinetochoreâ€“microtubule interactions during cell division. Chromosome Research, 2004, 12, 585-597. | 2.2 | 28 |
| 99 | The dynamic kinetochore-microtubule interface. Journal of Cell Science, 2004, 117, 5461-5477. | 2.0 | 346 |
| 100 | Stuck in Division or Passing through. Developmental Cell, 2004, 7, 637-651. | 7.0 | 599 |
| 101 | Microtubule-Associated Proteins and Their Essential Roles During Mitosis. International Review of Cytology, 2004, 241, 53-153. | 6.2 | 66 |
| 102 | Dissecting mitosis by RNAi inDrosophila tissue culture cells. Biological Procedures Online, 2003, 5, 153-161. | 2.9 | 37 |
| 103 | Human CLASP1 Is an Outer Kinetochore Component that Regulates Spindle Microtubule Dynamics. Cell, 2003, 113, 891-904. | 28.9 | 199 |
| 104 | How Do Kinetochores CLASP Dynamic Microtubules?. Cell Cycle, 2003, 2, 511-514. | 2.6 | 26 |
| 105 | MAST/Orbit has a role in microtubuleâ€“kinetochore attachment and is essential for chromosome alignment and maintenance of spindle bipolarity. Journal of Cell Biology, 2002, 157, 749-760. | 5.2 | 121 |
| 106 | Essential Roles of Drosophila Inner Centromere Protein (Incenp) and Aurora B in Histone H3 Phosphorylation, Metaphase Chromosome Alignment, Kinetochore Disjunction, and Chromosome Segregation. Journal of Cell Biology, 2001, 153, 865-880. | 5.2 | 442 |
| 107 | Mast, a conserved microtubule-associated protein required for bipolar mitotic spindle organization. EMBO Journal, 2000, 19, 3668-3682. | 7.8 | 106 |