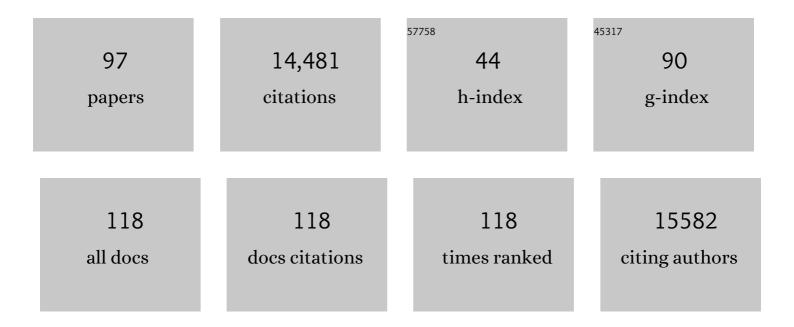
List of Publications by Year in descending order

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TOM MISTELL

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The stochastic nature of genome organization and function. Current Opinion in Genetics and Development, 2022, 72, 45-52. | 3.3 | 18 |
| 2 | Function moves biomolecular condensates in phase space. BioEssays, 2022, 44, e2200001. | 2.5 | 6 |
| 3 | HilDDD: a high-throughput imaging pipeline for the quantitative detection of DNA damage in primary human immune cells. Scientific Reports, 2022, 12, 6335. | 3.3 | 2 |
| 4 | Farnesyltransferase inhibition in HGPS. Cell, 2021, 184, 293. | 28.9 | 15 |
| 5 | Selfâ€assembly of multiâ€component mitochondrial nucleoids via phase separation. EMBO Journal, 2021, 40, e107165. | 7.8 | 36 |
| 6 | Systematic screening identifies therapeutic antisense oligonucleotides for Hutchinson–Gilford progeria syndrome. Nature Medicine, 2021, 27, 526-535. | 30.7 | 44 |
| 7 | Creating opportunities in cancer research. Nature Cancer, 2021, 2, 247-250. | 13.2 | 0 |
| 8 | Chromatin architecture is a flexible foundation for gene expression. Nature Genetics, 2021, 53, 426-427. | 21.4 | 12 |
| 9 | Deterministic assembly of chromosome ensembles in a programmable membrane trap array. Biofabrication, 2021, 13, 045005. | 7.1 | 0 |
| 10 | Phase separation in genome organization across evolution. Trends in Cell Biology, 2021, 31, 671-685. | 7.9 | 62 |
| 11 | A high-throughput DNA FISH protocol to visualize genome regions in human cells. STAR Protocols, 2021, 2, 100741. | 1.2 | 8 |
| 12 | Foreseeing the principles of genome architecture. Nature Reviews Genetics, 2021, , . | 16.3 | 0 |
| 13 | The Self-Organizing Genome: Principles of Genome Architecture and Function. Cell, 2020, 183, 28-45. | 28.9 | 342 |
| 14 | Visualizing Cancer. Cancer Cell, 2020, 38, 753-756. | 16.8 | 4 |
| 15 | Impairment of nuclear F-actin formation and its relevance to cellular phenotypes in Hutchinson-Gilford progeria syndrome. Nucleus, 2020, 11, 250-263. | 2.2 | 8 |
| 16 | A Deep Learning Pipeline for Nucleus Segmentation. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 1248-1264. | 1.5 | 11 |
| 17 | A programmable microfluidic platform for multisample injection, discretization, and droplet manipulation. Biomicrofluidics, 2020, 14, 014112. | 2.4 | 4 |
| 18 | Single molecule analysis of lamin dynamics. Methods, 2019, 157, 56-65. | 3.8 | 3 |

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|----|--|------|-----------|
| 19 | Deep Learning Based Segmentation of Nuclei from Fluorescence Microscopy Images. Microscopy and Microanalysis, 2019, 25, 1376-1377. | 0.4 | 2 |
| 20 | A genome disconnect. Nature Genetics, 2019, 51, 1205-1206. | 21.4 | 14 |
| 21 | Assessment of the Utility of Gene Positioning Biomarkers in the Stratification of Prostate Cancers. Frontiers in Genetics, 2019, 10, 1029. | 2.3 | 6 |
| 22 | Molecular basis and biological function of variability in spatial genome organization. Science, 2019, 365, . | 12.6 | 168 |
| 23 | Microfluidic on-demand droplet generation, storage, retrieval, and merging for single-cell pairing. Lab on A Chip, 2019, 19, 493-502. | 6.0 | 38 |
| 24 | The nucleoporin ELYS regulates nuclear size by controlling NPC number and nuclear import capacity. EMBO Reports, 2019, 20, . | 4.5 | 52 |
| 25 | Interplay of primary sequence, position and secondary RNA structure determines alternative splicing of LMNA in a pre-mature aging syndrome. Nucleic Acids Research, 2019, 47, 5922-5935. | 14.5 | 13 |
| 26 | Progerin accelerates atherosclerosis by inducing endoplasmic reticulum stress in vascular smooth muscle cells. EMBO Molecular Medicine, 2019, 11, . | 6.9 | 83 |
| 27 | Extensive Heterogeneity and Intrinsic Variation in Spatial Genome Organization. Cell, 2019, 176, 1502-1515.e10. | 28.9 | 348 |
| 28 | A Scalable Random Access Micro-traps Array for Formation, Selective Retrieval and Capturing of Individual Droplets. , 2019, 2019, 1054-1057. | | 0 |
| 29 | HiPLA: High-throughput imaging proximity ligation assay. Methods, 2019, 157, 80-87. | 3.8 | 7 |
| 30 | Analysis of nuclear actin in human progeria cells. Biopolymers and Cell, 2019, 35, 238-239. | 0.4 | 0 |
| 31 | The Ubiquitin E3/E4 Ligase UBE4A Adjusts Protein Ubiquitylation and Accumulation at Sites of DNA Damage, Facilitating Double-Strand Break Repair. Molecular Cell, 2018, 69, 866-878.e7. | 9.7 | 40 |
| 32 | HiCTMap: Detection and analysis of chromosome territory structure and position by high-throughput imaging. Methods, 2018, 142, 30-38. | 3.8 | 12 |
| 33 | Protein sequestration at the nuclear periphery as a potential regulatory mechanism in premature aging. Journal of Cell Biology, 2018, 217, 21-37. | 5.2 | 33 |
| 34 | RefCell: multi-dimensional analysis of image-based high-throughput screens based on â€~typical cells'. BMC Bioinformatics, 2018, 19, 427. | 2.6 | 1 |
| 35 | Active or Passive On-Demand Droplet Merging in a Microfluidic Valve-Based Trap*. , 2018, 2018, 5350-5353. | | 2 |
| 36 | Blank spots on the map: some current questions on nuclear organization and genome architecture. Histochemistry and Cell Biology, 2018, 150, 579-592. | 1.7 | 24 |

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|----|---|------|-----------|
| 37 | The Making of a PreCancer Atlas: Promises, Challenges, and Opportunities. Trends in Cancer, 2018, 4, 523-536. | 7.4 | 36 |
| 38 | Effects of human sex chromosome dosage on spatial chromosome organization. Molecular Biology of the Cell, 2018, 29, 2458-2469. | 2.1 | 17 |
| 39 | Comparative analysis of 2D and 3D distance measurements to study spatial genome organization. Methods, 2017, 123, 47-55. | 3.8 | 20 |
| 40 | Genome Architecture from a Different Angle. Developmental Cell, 2017, 41, 3-4. | 7.0 | 10 |
| 41 | Causes and consequences of nuclear gene positioning. Journal of Cell Science, 2017, 130, 1501-1508. | 2.0 | 47 |
| 42 | Controlled droplet discretization and manipulation using membrane displacement traps. Lab on A Chip, 2017, 17, 3717-3724. | 6.0 | 20 |
| 43 | Identification of novel RNA isoforms of <i>LMNA</i> . Nucleus, 2017, 8, 573-582. | 2.2 | 8 |
| 44 | High-Throughput Imaging for the Discovery of Cellular Mechanisms of Disease. Trends in Genetics, 2017, 33, 604-615. | 6.7 | 87 |
| 45 | The genome—seeing it clearly now. Science, 2017, 357, 354-355. | 12.6 | 4 |
| 46 | Shared molecular and cellular mechanisms of premature ageing and ageing-associated diseases. Nature Reviews Molecular Cell Biology, 2017, 18, 595-609. | 37.0 | 217 |
| 47 | Myc Regulates Chromatin Decompaction and Nuclear Architecture during B Cell Activation. Molecular Cell, 2017, 67, 566-578.e10. | 9.7 | 174 |
| 48 | HiHiMap: single-cell quantitation of histones and histone posttranslational modifications across the cell cycle by high-throughput imaging. Molecular Biology of the Cell, 2017, 28, 2290-2302. | 2.1 | 20 |
| 49 | SpotLearn: Convolutional Neural Network for Detection of Fluorescence In Situ Hybridization (FISH) Signals in High-Throughput Imaging Approaches. Cold Spring Harbor Symposia on Quantitative Biology, 2017, 82, 57-70. | 1.1 | 36 |
| 50 | The decisionâ€making process and criteria in selecting candidate drugs for progeria clinical trials. EMBO Molecular Medicine, 2016, 8, 685-687. | 6.9 | 7 |
| 51 | The linker histone H1.0 generates epigenetic and functional intratumor heterogeneity. Science, 2016, 353, . | 12.6 | 147 |
| 52 | Spatial Genome Organization and Disease. , 2016, , 101-125. | | 5 |
| 53 | Repression of the Antioxidant NRF2 Pathway in Premature Aging. Cell, 2016, 165, 1361-1374. | 28.9 | 378 |
| 54 | Tissue-of-origin-specific gene repositioning in breast and prostate cancer. Histochemistry and Cell Biology, 2016, 145, 433-446. | 1.7 | 41 |

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|----|---|------|-----------|
| 55 | 3D Chromosome Regulatory Landscape of Human Pluripotent Cells. Cell Stem Cell, 2016, 18, 262-275. | 11.1 | 369 |
| 56 | High-throughput Imaging as a versatile and unbiased discovery tool. Methods, 2016, 96, 1-2. | 3.8 | 4 |
| 57 | Locus-specific gene repositioning in prostate cancer. Molecular Biology of the Cell, 2016, 27, 236-246. | 2.1 | 32 |
| 58 | A high-content imaging-based screening pipeline for the systematic identification of anti-progeroid compounds. Methods, 2016, 96, 46-58. | 3.8 | 46 |
| 59 | Gene expression analysis upon IncRNA DDSR1 knockdown in human fibroblasts. Genomics Data, 2015, 6, 277-279. | 1.3 | 2 |
| 60 | HIPMap: A High-Throughput Imaging Method for Mapping Spatial Gene Positions. Cold Spring Harbor Symposia on Quantitative Biology, 2015, 80, 73-81. | 1.1 | 34 |
| 61 | Inhibition of vemurafenib-resistant melanoma by interference with pre-mRNA splicing. Nature Communications, 2015, 6, 7103. | 12.8 | 100 |
| 62 | Genome-wide redistribution of BRD4 binding sites in transformation resistant cells. Genomics Data, 2015, 3, 33-35. | 1.3 | 0 |
| 63 | Long-Range Chromatin Interactions. Cold Spring Harbor Perspectives in Biology, 2015, 7, a019356. | 5.5 | 215 |
| 64 | Identification of Gene Positioning Factors Using High-Throughput Imaging Mapping. Cell, 2015, 162, 911-923. | 28.9 | 170 |
| 65 | Quantitative detection of rare interphase chromosome breaks and translocations by high-throughput imaging. Genome Biology, 2015, 16, 146. | 8.8 | 18 |
| 66 | Transformation Resistance in a Premature Aging Disorder Identifies a Tumor-Protective Function of BRD4. Cell Reports, 2014, 9, 248-260. | 6.4 | 55 |
| 67 | Systematic identification of pathological lamin A interactors. Molecular Biology of the Cell, 2014, 25, 1493-1510. | 2.1 | 63 |
| 68 | Progeria: A Paradigm for Translational Medicine. Cell, 2014, 156, 400-407. | 28.9 | 230 |
| 69 | Common features of chromatin in aging and cancer: cause or coincidence?. Trends in Cell Biology, 2014, 24, 686-694. | 7.9 | 62 |
| 70 | Spatial Dynamics of Chromosome Translocations in Living Cells. Science, 2013, 341, 660-664. | 12.6 | 266 |
| 71 | Functional implications of genome topology. Nature Structural and Molecular Biology, 2013, 20, 290-299. | 8.2 | 382 |
| 72 | Mapping of lamin A- and progerin-interacting genome regions. Chromosoma, 2012, 121, 447-464. | 2.2 | 86 |

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|----|---|------|-----------|
| 73 | The lamin protein family. Genome Biology, 2011, 12, 222. | 9.6 | 392 |
| 74 | In vitro generation of human cells with cancer stem cell properties. Nature Cell Biology, 2011, 13, 1051-1061. | 10.3 | 122 |
| 75 | Identification of differential protein interactors of lamin A and progerin. Nucleus, 2010, 1, 513-525. | 2.2 | 81 |
| 76 | Higher-order Genome Organization in Human Disease. Cold Spring Harbor Perspectives in Biology, 2010, 2, a000794-a000794. | 5.5 | 202 |
| 77 | Regulation of Alternative Splicing by Histone Modifications. Science, 2010, 327, 996-1000. | 12.6 | 931 |
| 78 | Ageing-related chromatin defects through loss of the NURD complex. Nature Cell Biology, 2009, 11, 1261-1267. | 10.3 | 259 |
| 79 | Disease-specific gene repositioning in breast cancer. Journal of Cell Biology, 2009, 187, 801-812. | 5.2 | 126 |
| 80 | Lamin A-dependent misregulation of adult stem cells associated with accelerated ageing. Nature Cell Biology, 2008, 10, 452-459. | 10.3 | 465 |
| 81 | Segmentation of Whole Cells and Cell Nuclei From 3-D Optical Microscope Images Using Dynamic Programming. IEEE Transactions on Medical Imaging, 2008, 27, 723-734. | 8.9 | 44 |
| 82 | The Meaning of Gene Positioning. Cell, 2008, 135, 9-13. | 28.9 | 222 |
| 83 | Allele-specific nuclear positioning of the monoallelically expressed astrocyte marker GFAP. Genes and Development, 2008, 22, 489-498. | 5.9 | 136 |
| 84 | On the Contribution of Spatial Genome Organization to Cancerous Chromosome Translocations. Journal of the National Cancer Institute Monographs, 2008, 2008, 16-19. | 2.1 | 28 |
| 85 | Locus-specific and activity-independent gene repositioning during early tumorigenesis. Journal of Cell Biology, 2008, 180, 39-50. | 5.2 | 135 |
| 86 | Functional association of Sun1 with nuclear pore complexes. Journal of Cell Biology, 2007, 178, 785-798. | 5.2 | 202 |
| 87 | Beyond the Sequence: Cellular Organization of Genome Function. Cell, 2007, 128, 787-800. | 28.9 | 1,043 |
| 88 | Distinct structural and mechanical properties of the nuclear lamina in Hutchinson-Gilford progeria syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10271-10276. | 7.1 | 333 |
| 89 | Lamin A-Dependent Nuclear Defects in Human Aging. Science, 2006, 312, 1059-1063. | 12.6 | 1,058 |
| 90 | Neural induction promotes large-scale chromatin reorganisation of the <i>Mash1</i> locus. Journal of Cell Science, 2006, 119, 132-140. | 2.0 | 276 |

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|----|---|------|-----------|
| 91 | Reversal of the cellular phenotype in the premature aging disease Hutchinson-Gilford progeria syndrome. Nature Medicine, 2005, 11, 440-445. | 30.7 | 531 |
| 92 | An uncertainty principle in chromosome positioning. Trends in Cell Biology, 2003, 13, 393-396. | 7.9 | 65 |
| 93 | Measurement of Dynamic Protein Binding to Chromatin In Vivo, Using Photobleaching Microscopy. Methods in Enzymology, 2003, 375, 393-414. | 1.0 | 305 |
| 94 | A Kinetic Framework for a Mammalian RNA Polymerase in Vivo. Science, 2002, 298, 1623-1626. | 12.6 | 400 |
| 95 | Protein Dynamics: Implications for Nuclear Architecture and Gene Expression. Science, 2001, 291, 843-847. | 12.6 | 634 |
| 96 | High mobility of proteins in the mammalian cell nucleus. Nature, 2000, 404, 604-609. | 27.8 | 1,081 |
| 97 | The dynamics of a pre-mRNA splicing factor in living cells. Nature, 1997, 387, 523-527. | 27.8 | 563 |