

# Peter K Sorger

## List of Publications by Year in descending order

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Version: 2024-02-01

276  
papers

40,168  
citations

2538

96  
h-index

3257

185  
g-index

340  
all docs

340  
docs citations

340  
times ranked

47107  
citing authors

| #  | ARTICLE                                                                                                                                                      | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Dissecting the multicellular ecosystem of metastatic melanoma by single-cell RNA-seq. <i>Science</i> , 2016, 352, 189-196.                                   | 6.0  | 3,421     |
| 2  | Cells on chips. <i>Nature</i> , 2006, 442, 403-411.                                                                                                          | 13.7 | 2,022     |
| 3  | Non-genetic origins of cell-to-cell variability in TRAIL-induced apoptosis. <i>Nature</i> , 2009, 459, 428-432.                                              | 13.7 | 993       |
| 4  | A Cancer Cell Program Promotes T Cell Exclusion and Resistance to Checkpoint Blockade. <i>Cell</i> , 2018, 175, 984-997.e24.                                 | 13.5 | 892       |
| 5  | Yeast heat shock factor is an essential DNA-binding protein that exhibits temperature-dependent phosphorylation. <i>Cell</i> , 1988, 54, 855-864.            | 13.5 | 863       |
| 6  | SARS-CoV-2 infection protects against rechallenge in rhesus macaques. <i>Science</i> , 2020, 369, 812-817.                                                   | 6.0  | 789       |
| 7  | MAD2 haplo-insufficiency causes premature anaphase and chromosome instability in mammalian cells. <i>Nature</i> , 2001, 409, 355-359.                        | 13.7 | 715       |
| 8  | Sequential Application of Anticancer Drugs Enhances Cell Death by Rewiring Apoptotic Signaling Networks. <i>Cell</i> , 2012, 149, 780-794.                   | 13.5 | 621       |
| 9  | Heat shock factor and the heat shock response. <i>Cell</i> , 1991, 65, 363-366.                                                                              | 13.5 | 608       |
| 10 | Physicochemical modelling of cell signalling pathways. <i>Nature Cell Biology</i> , 2006, 8, 1195-1203.                                                      | 4.6  | 558       |
| 11 | A role for the Adenomatous Polyposis Coli protein in chromosome segregation. <i>Nature Cell Biology</i> , 2001, 3, 429-432.                                  | 4.6  | 510       |
| 12 | Heat shock factor is regulated differently in yeast and HeLa cells. <i>Nature</i> , 1987, 329, 81-84.                                                        | 13.7 | 506       |
| 13 | A Systems Model of Signaling Identifies a Molecular Basis Set for Cytokine-Induced Apoptosis. <i>Science</i> , 2005, 310, 1646-1653.                         | 6.0  | 506       |
| 14 | Systems biology and combination therapy in the quest for clinical efficacy. <i>Nature Chemical Biology</i> , 2006, 2, 458-466.                               | 3.9  | 505       |
| 15 | Growth rate inhibition metrics correct for confounders in measuring sensitivity to cancer drugs. <i>Nature Methods</i> , 2016, 13, 521-527.                  | 9.0  | 489       |
| 16 | Chromosome Missegregation and Apoptosis in Mice Lacking the Mitotic Checkpoint Protein Mad2. <i>Cell</i> , 2000, 101, 635-645.                               | 13.5 | 484       |
| 17 | Highly multiplexed immunofluorescence imaging of human tissues and tumors using t-CyCIF and conventional optical microscopes. <i>ELife</i> , 2018, 7, .      | 2.8  | 474       |
| 18 | Combination Cancer Therapy Can Confer Benefit via Patient-to-Patient Variability without Drug Additivity or Synergy. <i>Cell</i> , 2017, 171, 1678-1691.e13. | 13.5 | 467       |

| #  | ARTICLE                                                                                                                                                                             | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Timing and Checkpoints in the Regulation of Mitotic Progression. <i>Developmental Cell</i> , 2004, 7, 45-60.                                                                        | 3.1  | 434       |
| 20 | Highly multiplexed imaging of single cells using a high-throughput cyclic immunofluorescence method. <i>Nature Communications</i> , 2015, 6, 8390.                                  | 5.8  | 428       |
| 21 | Electronic detection of DNA by its intrinsic molecular charge. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14142-14146.      | 3.3  | 420       |
| 22 | Trimerization of a yeast transcriptional activator via a coiled-coil motif. <i>Cell</i> , 1989, 59, 807-813.                                                                        | 13.5 | 400       |
| 23 | Quantitative Analysis of Pathways Controlling Extrinsic Apoptosis in Single Cells. <i>Molecular Cell</i> , 2008, 30, 11-25.                                                         | 4.5  | 357       |
| 24 | Measuring and Modeling Apoptosis in Single Cells. <i>Cell</i> , 2011, 144, 926-939.                                                                                                 | 13.5 | 354       |
| 25 | Obesity Shapes Metabolism in the Tumor Microenvironment to Suppress Anti-Tumor Immunity. <i>Cell</i> , 2020, 183, 1848-1866.e26.                                                    | 13.5 | 347       |
| 26 | Towards a Rigorous Assessment of Systems Biology Models: The DREAM3 Challenges. <i>PLoS ONE</i> , 2010, 5, e9202.                                                                   | 1.1  | 337       |
| 27 | The Human Tumor Atlas Network: Charting Tumor Transitions across Space and Time at Single-Cell Resolution. <i>Cell</i> , 2020, 181, 236-249.                                        | 13.5 | 334       |
| 28 | Anaphase initiation is regulated by antagonistic ubiquitination and deubiquitination activities. <i>Nature</i> , 2007, 446, 876-881.                                                | 13.7 | 333       |
| 29 | Input-output behavior of ErbB signaling pathways as revealed by a mass action model trained against dynamic data. <i>Molecular Systems Biology</i> , 2009, 5, 239.                  | 3.2  | 332       |
| 30 | The Library of Integrated Network-Based Cellular Signatures NIH Program: System-Level Cataloging of Human Cells Response to Perturbations. <i>Cell Systems</i> , 2018, 6, 13-24.    | 2.9  | 327       |
| 31 | Purification and characterization of a heat-shock element binding protein from yeast.. <i>EMBO Journal</i> , 1987, 6, 3035-3041.                                                    | 3.5  | 311       |
| 32 | S-phase feedback control in budding yeast independent of tyrosine phosphorylation of P34cdc28. <i>Nature</i> , 1992, 355, 365-368.                                                  | 13.7 | 309       |
| 33 | Discrete logic modelling as a means to link protein signalling networks with functional analysis of mammalian signal transduction. <i>Molecular Systems Biology</i> , 2009, 5, 331. | 3.2  | 308       |
| 34 | Logic-Based Models for the Analysis of Cell Signaling Networks. <i>Biochemistry</i> , 2010, 49, 3216-3224.                                                                          | 1.2  | 306       |
| 35 | A Noncanonical Frizzled2 Pathway Regulates Epithelial-Mesenchymal Transition and Metastasis. <i>Cell</i> , 2014, 159, 844-856.                                                      | 13.5 | 296       |
| 36 | Discovery of Potent and Selective Covalent Inhibitors of JNK. <i>Chemistry and Biology</i> , 2012, 19, 140-154.                                                                     | 6.2  | 286       |

| #  | ARTICLE                                                                                                                                                                                         | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Metrics other than potency reveal systematic variation in responses to cancer drugs. <i>Nature Chemical Biology</i> , 2013, 9, 708-714.                                                         | 3.9  | 280       |
| 38 | LINCS Canvas Browser: interactive web app to query, browse and interrogate LINCS L1000 gene expression signatures. <i>Nucleic Acids Research</i> , 2014, 42, W449-W460.                         | 6.5  | 280       |
| 39 | A single-cell landscape of high-grade serous ovarian cancer. <i>Nature Medicine</i> , 2020, 26, 1271-1279.                                                                                      | 15.2 | 267       |
| 40 | The yeast DASH complex forms closed rings on microtubules. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 138-143.                                                                  | 3.6  | 258       |
| 41 | Yeast heat shock factor contains separable transient and sustained response transcriptional activators. <i>Cell</i> , 1990, 62, 793-805.                                                        | 13.5 | 256       |
| 42 | Transient Sister Chromatid Separation and Elastic Deformation of Chromosomes during Mitosis in Budding Yeast. <i>Cell</i> , 2000, 101, 763-775.                                                 | 13.5 | 256       |
| 43 | Hierarchical assembly of the budding yeast kinetochore from multiple subcomplexes. <i>Genes and Development</i> , 2003, 17, 2902-2921.                                                          | 2.7  | 256       |
| 44 | Classic and contemporary approaches to modeling biochemical reactions. <i>Genes and Development</i> , 2010, 24, 1861-1875.                                                                      | 2.7  | 255       |
| 45 | The Open Microscopy Environment (OME) Data Model and XML file: open tools for informatics and quantitative analysis in biological imaging. <i>Genome Biology</i> , 2005, 6, R47.                | 13.9 | 254       |
| 46 | Modeling a Snap-Action, Variable-Delay Switch Controlling Extrinsic Cell Death. <i>PLoS Biology</i> , 2008, 6, e299.                                                                            | 2.6  | 252       |
| 47 | L1000CDS2: LINCS L1000 characteristic direction signatures search engine. <i>Npj Systems Biology and Applications</i> , 2016, 2, .                                                              | 1.4  | 250       |
| 48 | Informatics and Quantitative Analysis in Biological Imaging. <i>Science</i> , 2003, 300, 100-102.                                                                                               | 6.0  | 249       |
| 49 | Molecular organization of the Ndc80 complex, an essential kinetochore component. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5363-5367. | 3.3  | 243       |
| 50 | Phylogenetic and structural analysis of centromeric DNA and kinetochore proteins. <i>Genome Biology</i> , 2006, 7, R23.                                                                         | 13.9 | 239       |
| 51 | Profiling receptor tyrosine kinase activation by using Ab microarrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9330-9335.           | 3.3  | 232       |
| 52 | Molecular Analysis of Kinetochore-Microtubule Attachment in Budding Yeast. <i>Cell</i> , 2001, 106, 195-206.                                                                                    | 13.5 | 231       |
| 53 | Programming biological models in Python using PySB. <i>Molecular Systems Biology</i> , 2013, 9, 646.                                                                                            | 3.2  | 216       |
| 54 | Identification of essential components of the <i>S. cerevisiae</i> kinetochore. <i>Cell</i> , 1993, 73, 761-774.                                                                                | 13.5 | 215       |

| #  | ARTICLE                                                                                                                                                                                             | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Structure and assembly of turnip crinkle virus. <i>Journal of Molecular Biology</i> , 1986, 191, 639-658.                                                                                           | 2.0  | 203       |
| 56 | Coupling cell division and cell death to microtubule dynamics. <i>Current Opinion in Cell Biology</i> , 1997, 9, 807-814.                                                                           | 2.6  | 202       |
| 57 | Adaptive resistance of melanoma cells to <sc>RAF</sc> inhibition via reversible induction of a slowly dividing de-differentiated state. <i>Molecular Systems Biology</i> , 2017, 13, 905.           | 3.2  | 202       |
| 58 | Non-genetic cell-to-cell variability and the consequences for pharmacology. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 556-561.                                                         | 2.8  | 200       |
| 59 | BID Preferentially Activates BAK while BIM Preferentially Activates BAX, Affecting Chemotherapy Response. <i>Molecular Cell</i> , 2013, 51, 751-765.                                                | 4.5  | 200       |
| 60 | A dual role for Bub1 in the spindle checkpoint and chromosome congression. <i>EMBO Journal</i> , 2005, 24, 1621-1633.                                                                               | 3.5  | 192       |
| 61 | Discovering causal pathways linking genomic events to transcriptional states using Tied Diffusion Through Interacting Events (TieDIE). <i>Bioinformatics</i> , 2013, 29, 2757-2764.                 | 1.8  | 189       |
| 62 | The Response of Human Epithelial Cells to TNF Involves an Inducible Autocrine Cascade. <i>Cell</i> , 2006, 124, 1225-1239.                                                                          | 13.5 | 188       |
| 63 | Genetic Selection of Peptide Inhibitors of Biological Pathways. <i>Science</i> , 1999, 285, 591-595.                                                                                                | 6.0  | 185       |
| 64 | Structure, Function, and Regulation of Budding Yeast Kinetochores. <i>Annual Review of Cell and Developmental Biology</i> , 2003, 19, 519-539.                                                      | 4.0  | 184       |
| 65 | Vascular Disease and Thrombosis in SARS-CoV-2-Infected Rhesus Macaques. <i>Cell</i> , 2020, 183, 1354-1366.e13.                                                                                     | 13.5 | 184       |
| 66 | Automatic fluorescent tag detection in 3D with super-resolution: application to the analysis of chromosome movement. <i>Journal of Microscopy</i> , 2002, 208, 49-64.                               | 0.8  | 183       |
| 67 | Immunogenomic profiling determines responses to combined PARP and PD-1 inhibition in ovarian cancer. <i>Nature Communications</i> , 2020, 11, 1459.                                                 | 5.8  | 176       |
| 68 | Spindle checkpoint proteins and chromosome-microtubule attachment in budding yeast. <i>Journal of Cell Biology</i> , 2004, 164, 535-546.                                                            | 2.3  | 166       |
| 69 | The Logic of EGFR/ErbB Signaling: Theoretical Properties and Analysis of High-Throughput Data. <i>PLoS Computational Biology</i> , 2009, 5, e1000438.                                               | 1.5  | 164       |
| 70 | The glucose-regulated protein grp94 is related to heat shock protein hsp90. <i>Journal of Molecular Biology</i> , 1987, 194, 341-344.                                                               | 2.0  | 161       |
| 71 | Purification and characterization of a heat-shock element binding protein from yeast. <i>EMBO Journal</i> , 1987, 6, 3035-41.                                                                       | 3.5  | 157       |
| 72 | Multomics Profiling Establishes the Polypharmacology of FDA-Approved CDK4/6 Inhibitors and the Potential for Differential Clinical Activity. <i>Cell Chemical Biology</i> , 2019, 26, 1067-1080.e8. | 2.5  | 151       |

| #  | ARTICLE                                                                                                                                                                                                                                 | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Misorientation and reduced stretching of aligned sister kinetochores promote chromosome missegregation in EB1- or APC-depleted cells. <i>EMBO Journal</i> , 2006, 25, 2814-2827.                                                        | 3.5  | 150       |
| 74 | Chromosome segregation and genomic stability. <i>Current Opinion in Genetics and Development</i> , 2004, 14, 120-125.                                                                                                                   | 1.5  | 149       |
| 75 | Analysis of Mitosis and Antimitotic Drug Responses in Tumors by <i>In Vivo</i> Microscopy and Single-Cell Pharmacodynamics. <i>Cancer Research</i> , 2011, 71, 4608-4616.                                                               | 0.4  | 146       |
| 76 | Fuzzy Logic Analysis of Kinase Pathway Crosstalk in TNF/EGF/Insulin-Induced Signaling. <i>PLoS Computational Biology</i> , 2009, 5, e1000340.                                                                                           | 1.5  | 145       |
| 77 | Regulating the Yeast Kinetochores by Ubiquitin-Dependent Degradation and Skp1p-Mediated Phosphorylation. <i>Cell</i> , 1997, 91, 491-500.                                                                                               | 13.5 | 144       |
| 78 | Cyclic Immunofluorescence (CyclIF), A Highly Multiplexed Method for Single-Cell Imaging. <i>Current Protocols in Chemical Biology</i> , 2016, 8, 251-264.                                                                               | 1.7  | 142       |
| 79 | From word models to executable models of signaling networks using automated assembly. <i>Molecular Systems Biology</i> , 2017, 13, 954.                                                                                                 | 3.2  | 137       |
| 80 | Regulation of <i>Saccharomyces cerevisiae</i> kinetochores by the type 1 phosphatase Glc7p. <i>Genes and Development</i> , 1999, 13, 545-555.                                                                                           | 2.7  | 135       |
| 81 | A Compendium of Signals and Responses Triggered by Prodeath and Prosurvival Cytokines. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1569-1590.                                                                                   | 2.5  | 134       |
| 82 | Comparing Signaling Networks between Normal and Transformed Hepatocytes Using Discrete Logical Models. <i>Cancer Research</i> , 2011, 71, 5400-5411.                                                                                    | 0.4  | 132       |
| 83 | Fractional killing arises from cell-to-cell variability in overcoming a caspase activity threshold. <i>Molecular Systems Biology</i> , 2015, 11, 803.                                                                                   | 3.2  | 132       |
| 84 | Analysis of kinesin motor function at budding yeast kinetochores. <i>Journal of Cell Biology</i> , 2006, 172, 861-874.                                                                                                                  | 2.3  | 127       |
| 85 | Synergistic drug-cytokine induction of hepatocellular death as an <i>in vitro</i> approach for the study of inflammation-associated idiosyncratic drug hepatotoxicity. <i>Toxicology and Applied Pharmacology</i> , 2009, 237, 317-330. | 1.3  | 127       |
| 86 | Targeting immunosuppressive macrophages overcomes PARP inhibitor resistance in BRCA1-associated triple-negative breast cancer. <i>Nature Cancer</i> , 2021, 2, 66-82.                                                                   | 5.7  | 126       |
| 87 | Machine learning identifies candidates for drug repurposing in Alzheimer's disease. <i>Nature Communications</i> , 2021, 12, 1033.                                                                                                      | 5.8  | 124       |
| 88 | Surviving apoptosis: life-death signaling in single cells. <i>Trends in Cell Biology</i> , 2015, 25, 446-458.                                                                                                                           | 3.6  | 120       |
| 89 | Conservation of protein abundance patterns reveals the regulatory architecture of the EGFR-MAPK pathway. <i>Science Signaling</i> , 2016, 9, rs6.                                                                                       | 1.6  | 119       |
| 90 | Rapid Phospho-Turnover by Receptor Tyrosine Kinases Impacts Downstream Signaling and Drug Binding. <i>Molecular Cell</i> , 2011, 43, 723-737.                                                                                           | 4.5  | 118       |

| #   | ARTICLE                                                                                                                                                                                                                                                                                                                                                                       | IF   | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91  | Mps1 at kinetochores is essential for female mouse meiosis I. <i>Development (Cambridge)</i> , 2011, 138, 2261-2271.                                                                                                                                                                                                                                                          | 1.2  | 114       |
| 92  | Training Signaling Pathway Maps to Biochemical Data with Constrained Fuzzy Logic: Quantitative Analysis of Liver Cell Responses to Inflammatory Stimuli. <i>PLoS Computational Biology</i> , 2011, 7, e1001099.                                                                                                                                                               | 1.5  | 113       |
| 93  | Image metrics in the statistical analysis of DNA microarray data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 8944-8949.                                                                                                                                                                                               | 3.3  | 111       |
| 94  | Cue-Signal-Response Analysis of TNF-Induced Apoptosis by Partial Least Squares Regression of Dynamic Multivariate Data. <i>Journal of Computational Biology</i> , 2004, 11, 544-561.                                                                                                                                                                                          | 0.8  | 106       |
| 95  | Generating chromosome instability through the simultaneous deletion of Mad2 and p53. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11296-11301.                                                                                                                                                                         | 3.3  | 106       |
| 96  | Fundamental trade-offs between information flow in single cells and cellular populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5755-5760.                                                                                                                                                                      | 3.3  | 106       |
| 97  | Changing Mad2 Levels Affects Chromosome Segregation and Spindle Assembly Checkpoint Control in Female Mouse Meiosis I. <i>PLoS ONE</i> , 2007, 2, e1165.                                                                                                                                                                                                                      | 1.1  | 104       |
| 98  | Development of a Selective CDK7 Covalent Inhibitor Reveals Predominant Cell-Cycle Phenotype. <i>Cell Chemical Biology</i> , 2019, 26, 792-803.e10.                                                                                                                                                                                                                            | 2.5  | 103       |
| 99  | Crowdsourcing Network Inference: The DREAM Predictive Signaling Network Challenge <b>Meeting Information:</b> The DREAM4 Predictive Signaling Network Challenge took place in the summer of 2009. Results were presented at the DREAM4 conference, December 2009, The Broad Institute of MIT and Harvard, Cambridge, Massachusetts.. <i>Science Signaling</i> , 2011, 4, nr7. | 1.6  | 102       |
| 100 | MCMICRO: a scalable, modular image-processing pipeline for multiplexed tissue imaging. <i>Nature Methods</i> , 2022, 19, 311-315.                                                                                                                                                                                                                                             | 9.0  | 102       |
| 101 | Concurrent Dexamethasone Limits the Clinical Benefit of Immune Checkpoint Blockade in Glioblastoma. <i>Clinical Cancer Research</i> , 2021, 27, 276-287.                                                                                                                                                                                                                      | 3.2  | 100       |
| 102 | Collecting and organizing systematic sets of protein data. <i>Nature Reviews Molecular Cell Biology</i> , 2006, 7, 803-812.                                                                                                                                                                                                                                                   | 16.1 | 98        |
| 103 | The Unstable F-box Protein p58-Ctf13 Forms the Structural Core of the CBF3 Kinetochores Complex. <i>Journal of Cell Biology</i> , 1999, 145, 933-950.                                                                                                                                                                                                                         | 2.3  | 96        |
| 104 | A functional genomic screen identifies a role for TAO1 kinase in spindle-checkpoint signalling. <i>Nature Cell Biology</i> , 2007, 9, 556-564.                                                                                                                                                                                                                                | 4.6  | 95        |
| 105 | Networks Inferred from Biochemical Data Reveal Profound Differences in Toll-like Receptor and Inflammatory Signaling between Normal and Transformed Hepatocytes. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1849-1865.                                                                                                                                               | 2.5  | 95        |
| 106 | A Multi-center Study on the Reproducibility of Drug-Response Assays in Mammalian Cell Lines. <i>Cell Systems</i> , 2019, 9, 35-48.e5.                                                                                                                                                                                                                                         | 2.9  | 95        |
| 107 | Independent Drug Action in Combination Therapy: Implications for Precision Oncology. <i>Cancer Discovery</i> , 2022, 12, 606-624.                                                                                                                                                                                                                                             | 7.7  | 93        |
| 108 | Qualifying antibodies for image-based immune profiling and multiplexed tissue imaging. <i>Nature Protocols</i> , 2019, 14, 2900-2930.                                                                                                                                                                                                                                         | 5.5  | 92        |

| #   | ARTICLE                                                                                                                                                                                                                               | IF   | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 109 | Structure and Function of Kinetochores in Budding Yeast. Annual Review of Cell and Developmental Biology, 1995, 11, 471-495.                                                                                                          | 4.0  | 91        |
| 110 | Factors required for the binding of reassembled yeast kinetochores to microtubules in vitro.. Journal of Cell Biology, 1994, 127, 995-1008.                                                                                           | 2.3  | 90        |
| 111 | Profiles of Basal and Stimulated Receptor Signaling Networks Predict Drug Response in Breast Cancer Lines. Science Signaling, 2013, 6, ra84.                                                                                          | 1.6  | 90        |
| 112 | A High-throughput Quantitative Multiplex Kinase Assay for Monitoring Information Flow in Signaling Networks. Molecular and Cellular Proteomics, 2003, 2, 463-473.                                                                     | 2.5  | 89        |
| 113 | Kinome-wide Selectivity Profiling of ATP-competitive Mammalian Target of Rapamycin (mTOR) Inhibitors and Characterization of Their Binding Kinetics. Journal of Biological Chemistry, 2012, 287, 9742-9752.                           | 1.6  | 89        |
| 114 | Properties of cell death models calibrated and compared using Bayesian approaches. Molecular Systems Biology, 2013, 9, 644.                                                                                                           | 3.2  | 89        |
| 115 | Retention of the Bub3 checkpoint protein on lagging chromosomes. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8493-8498.                                                                | 3.3  | 88        |
| 116 | Centromeric Chromatin and Epigenetic Effects in Kinetochores Assembly. Cell, 1998, 93, 313-316.                                                                                                                                       | 13.5 | 87        |
| 117 | The Spatial Landscape of Progression and Immunoediting in Primary Melanoma at Single-Cell Resolution. Cancer Discovery, 2022, 12, 1518-1541.                                                                                          | 7.7  | 87        |
| 118 | Structure of a Central Component of the Yeast Kinetochores: The Spc24p/Spc25p Globular Domain. Structure, 2006, 14, 1003-1009.                                                                                                        | 1.6  | 86        |
| 119 | Cell Stimulus and Lysis in a Microfluidic Device with Segmented Gas-Liquid Flow. Analytical Chemistry, 2005, 77, 3629-3636.                                                                                                           | 3.2  | 84        |
| 120 | Cells surviving fractional killing by TRAIL exhibit transient but sustainable resistance and inflammatory phenotypes. Molecular Biology of the Cell, 2013, 24, 2186-2200.                                                             | 0.9  | 84        |
| 121 | Systematic analysis of BRAF <sup>V600E</sup> melanomas reveals a role for JNK/c-Jun pathway in adaptive resistance to drug-induced apoptosis. Molecular Systems Biology, 2015, 11, 797.                                               | 3.2  | 84        |
| 122 | Chromosome instability induced by Mps1 and p53 mutation generates aggressive lymphomas exhibiting aneuploidy-induced stress. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13427-13432. | 3.3  | 82        |
| 123 | Structural and Functional Dissection of Mif2p, a Conserved DNA-binding Kinetochores Protein. Molecular Biology of the Cell, 2008, 19, 4480-4491.                                                                                      | 0.9  | 80        |
| 124 | Exploring the Contextual Sensitivity of Factors that Determine Cell-to-Cell Variability in Receptor-Mediated Apoptosis. PLoS Computational Biology, 2012, 8, e1002482.                                                                | 1.5  | 79        |
| 125 | Common and cell-type specific responses to anti-cancer drugs revealed by high throughput transcript profiling. Nature Communications, 2017, 8, 1186.                                                                                  | 5.8  | 78        |
| 126 | A curative combination cancer therapy achieves high fractional cell killing through low cross-resistance and drug additivity. ELife, 2019, 8, .                                                                                       | 2.8  | 78        |



| #   | ARTICLE                                                                                                                                                                 | IF   | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 127 | The Dark Kinase Knowledgebase: an online compendium of knowledge and experimental results of understudied kinases. <i>Nucleic Acids Research</i> , 2021, 49, D529-D535. | 6.5  | 75        |
| 128 | Probing the Architecture of a Simple Kinetochore Using DNA-Protein Crosslinking. <i>Journal of Cell Biology</i> , 1997, 139, 1383-1396.                                 | 2.3  | 74        |
| 129 | Creating and analyzing pathway and protein interaction compendia for modelling signal transduction networks. <i>BMC Systems Biology</i> , 2012, 6, 29.                  | 3.0  | 71        |
| 130 | Receptor-Driven ERK Pulses Reconfigure MAPK Signaling and Enable Persistence of Drug-Adapted BRAF-Mutant Melanoma Cells. <i>Cell Systems</i> , 2020, 11, 478-494.e9.    | 2.9  | 71        |
| 131 | The human kinetochore proteins Nnf1R and Mcm21R are required for accurate chromosome segregation. <i>EMBO Journal</i> , 2006, 25, 4033-4049.                            | 3.5  | 70        |
| 132 | Profiling phospho-signaling networks in breast cancer using reverse-phase protein arrays. <i>Oncogene</i> , 2013, 32, 3470-3476.                                        | 2.6  | 70        |
| 133 | Roles for the Conserved Spc105p/Kre28p Complex in Kinetochore-Microtubule Binding and the Spindle Assembly Checkpoint. <i>PLoS ONE</i> , 2009, 4, e7640.                | 1.1  | 70        |
| 134 | Selective USP7 inhibition elicits cancer cell killing through a p53-dependent mechanism. <i>Scientific Reports</i> , 2020, 10, 5324.                                    | 1.6  | 69        |
| 135 | Discovery and resistance mechanism of a selective CDK12 degrader. <i>Nature Chemical Biology</i> , 2021, 17, 675-683.                                                   | 3.9  | 69        |
| 136 | Alternative drug sensitivity metrics improve preclinical cancer pharmacogenomics. <i>Nature Biotechnology</i> , 2017, 35, 500-502.                                      | 9.4  | 68        |
| 137 | Development and Characterization of a Wee1 Kinase Degradator. <i>Cell Chemical Biology</i> , 2020, 27, 57-65.e9.                                                        | 2.5  | 68        |
| 138 | Biophysical prediction of protein-peptide interactions and signaling networks using machine learning. <i>Nature Methods</i> , 2020, 17, 175-183.                        | 9.0  | 68        |
| 139 | Multiplexed immunofluorescence reveals potential PD-1/PD-L1 pathway vulnerabilities in craniopharyngioma. <i>Neuro-Oncology</i> , 2018, 20, 1101-1112.                  | 0.6  | 67        |
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