Steven P Gygi

List of Publications by Year in Descending Order

392 papers	60,018 citations	107 h-index	242 g-index
459 ext. papers	71,222 ext. citations	15.7 avg, IF	7.82 L-index

#	Paper	IF	Citations
392	Human neural cell type-specific extracellular vesicle proteome defines disease-related molecules associated with activated astrocytes in Alzheimer's disease brain.. *Journal of Extracellular Vesicles*, **2022**, 11, e12183	16.4	5
391	Enrichment of Tyrosine Phosphorylated Peptides for Quantitative Mass Spectrometry Analysis of RTK Signaling Dynamics.. *Bio-protocol*, **2022**, 12, e4311	0.9	
390	Rixosomal RNA degradation contributes to silencing of Polycomb target genes.. *Nature*, **2022**, 604, 167-174	50.4	0
389	NAD+ depletion enhances reovirus-induced oncolysis in multiple myeloma.. *Molecular Therapy - Oncolytics*, **2022**, 24, 695-706	6.4	0
388	Fe-NTA magnetic beads as an alternative to spin column-based phosphopeptide enrichment.. *Journal of Proteomics*, **2022**, 260, 104561	3.9	2
387	Assessing interference in isobaric tag-based sample multiplexing using an 18-plex interference standard.. *Proteomics*, **2021**, e2100317	4.8	1
386	Immune checkpoint blockade augments changes within oncolytic virus-induced cancer MHC-I peptidome, creating novel antitumor CD8 T cell reactivities.. *Molecular and Cellular Proteomics*, **2021**, 100182	7.6	0
385	Translocation of polyubiquitinated protein substrates by the hexameric Cdc48 ATPase.. *Molecular Cell*, **2021**,	17.6	5
384	A multi-scale map of cell structure fusing protein images and interactions. *Nature*, **2021**,	50.4	9
383	Self-assembling short immunostimulatory duplex RNAs with broad spectrum antiviral activity **2021**,		1
382	Cysteine 253 of UCP1 regulates energy expenditure and sex-dependent adipose tissue inflammation. *Cell Metabolism*, **2021**,	24.6	6
381	Clonal populations of a human TNBC model display significant functional heterogeneity and divergent growth dynamics in distinct contexts. *Oncogene*, **2021**,	9.2	2
380	The fission yeast FLCN/FNIP complex augments TORC1 repression or activation in response to amino acid (AA) availability. *IScience*, **2021**, 24, 103338	6.1	
379	Proteome-wide mapping of short-lived proteins in human cells. *Molecular Cell*, **2021**, 81, 4722-4735.e5	17.6	2
378	DPP9 sequesters the C terminus of NLRP1 to repress inflammasome activation. *Nature*, **2021**, 592, 778-783	50.4	35
377	Strain-Specific Peptide (SSP) Interference Reference Sample: A Genetically Encoded Quality Control for Isobaric Tagging Strategies. *Analytical Chemistry*, **2021**, 93, 5241-5247	7.8	4
376	Proteomic and transcriptomic profiling reveal different aspects of aging in the kidney. *ELife*, **2021**, 10,	8.9	13

375	Time-resolved phosphoproteomics reveals scaffolding and catalysis-responsive patterns of SHP2-dependent signaling. *ELife*, **2021**, 10,	8.9	5
374	A cold-stress-inducible PERK/OGT axis controls TOM70-assisted mitochondrial protein import and cristae formation. *Cell Metabolism*, **2021**, 33, 598-614.e7	24.6	10
373	ORF10-Cullin-2-ZYG11B complex is not required for SARS-CoV-2 infection. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
372	Iron Deficiency and Recovery in Yeast: A Quantitative Proteomics Approach. *Journal of Proteome Research*, **2021**, 20, 2751-2761	5.6	0
371	TMTpro-18plex: The Expanded and Complete Set of TMTpro Reagents for Sample Multiplexing. *Journal of Proteome Research*, **2021**, 20, 2964-2972	5.6	50
370	Proteomics of broad deubiquitylase inhibition unmasks redundant enzyme function to reveal substrates and assess enzyme specificity. *Cell Chemical Biology*, **2021**, 28, 487-502.e5	8.2	4
369	Time-resolved proteomics profiling of the ciliary Hedgehog response. *Journal of Cell Biology*, **2021**, 220,	7.3	10
368	Structures of chaperone-associated assembly intermediates reveal coordinated mechanisms of proteasome biogenesis. *Nature Structural and Molecular Biology*, **2021**, 28, 418-425	17.6	4
367	A human-airway-on-a-chip for the rapid identification of candidate antiviral therapeutics and prophylactics. *Nature Biomedical Engineering*, **2021**, 5, 815-829	19	62
366	UCP1 governs liver extracellular succinate and inflammatory pathogenesis. *Nature Metabolism*, **2021**, 3, 604-617	14.6	21
365	Mechanism of p38 MAPK-induced EGFR endocytosis and its crosstalk with ligand-induced pathways. *Journal of Cell Biology*, **2021**, 220,	7.3	3
364	A Semiautomated Paramagnetic Bead-Based Platform for Isobaric Tag Sample Preparation. *Journal of the American Society for Mass Spectrometry*, **2021**, 32, 1519-1529	3.5	6
363	Mapping Angiotensin II Type 1 Receptor-Biased Signaling Using Proximity Labeling and Proteomics Identifies Diverse Actions of Biased Agonists. *Journal of Proteome Research*, **2021**, 20, 3256-3267	5.6	6
362	A Compendium of Murine (Phospho)Peptides Encompassing Different Isobaric Labeling and Data Acquisition Strategies. *Journal of Proteome Research*, **2021**, 20, 3678-3688	5.6	3
361	Dual proteome-scale networks reveal cell-specific remodeling of the human interactome. *Cell*, **2021** , 184, 3022-3040.e28	56.2	86
360	Proteomic analysis identifies the E3 ubiquitin ligase Pdzrn3 as a regulatory target of Wnt5a-Ror signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
359	Temporal proteomic changes induced by nicotine in human cells: A quantitative proteomics approach. *Journal of Proteomics*, **2021**, 241, 104244	3.9	0
358	Isobaric Tag-Based Protein Profiling across Eight Human Cell Lines Using High-Field Asymmetric Ion Mobility Spectrometry and Real-Time Database Searching. *Proteomics*, **2021**, 21, e2000218	4.8	1

357	Membrane skeleton modulates erythroid proteome remodeling and organelle clearance. *Blood*, **2021**, 137, 398-409	2.2	3
356	Temporal Proteomic Profiling of SH-SY5Y Differentiation with Retinoic Acid Using FAIMS and Real-Time Searching. *Journal of Proteome Research*, **2021**, 20, 704-714	5.6	7
355	Growth media selection alters the proteome profiles of three model microorganisms. *Journal of Proteomics*, **2021**, 231, 104006	3.9	3
354	Improved Monoisotopic Mass Estimation for Deeper Proteome Coverage. *Journal of Proteome Research*, **2021**, 20, 591-598	5.6	9
353	HYpro16: A Two-Proteome Mixture to Assess Interference in Isobaric Tag-Based Sample Multiplexing Experiments. *Journal of the American Society for Mass Spectrometry*, **2021**, 32, 247-254	3.5	7
352	Tetracyclines promote survival and fitness in mitochondrial disease models. *Nature Metabolism*, **2021**, 3, 33-42	14.6	16
351	Enrichment of Neurodegenerative Microglia Signature in Brain-Derived Extracellular Vesicles Isolated from Alzheimer's Disease Mouse Models. *Journal of Proteome Research*, **2021**, 20, 1733-1743	5.6	8
350	Categorization of Phosphorylation Site Behavior during the Diauxic Shift in. *Journal of Proteome Research*, **2021**, 20, 2487-2496	5.6	0
349	Rapid toxin sequestration modifies poison frog physiology. *Journal of Experimental Biology*, **2021**, 224,	3	4
348	Targeting oncoproteins with a positive selection assay for protein degraders. *Science Advances*, **2021**, 7,	14.3	10
347	Peroxisomal-derived ether phospholipids link nucleotides to respirasome assembly. *Nature Chemical Biology*, **2021**, 17, 703-710	11.7	4
346	Dual DNA and protein tagging of open chromatin unveils dynamics of epigenomic landscapes in leukemia. *Nature Methods*, **2021**, 18, 293-302	21.6	4
345	Super Heavy TMTpro Labeling Reagent: An Alternative and Higher-Charge-State-Amenable Stable-Isotope-Labeled TMTpro Variant. *Journal of Proteome Research*, **2021**, 20, 3009-3013	5.6	1
344	A composite DNA element that functions as a maintainer required for epigenetic inheritance of heterochromatin. *Molecular Cell*, **2021**, 81, 3979-3991.e4	17.6	2
343	The biochemical basis of mitochondrial dysfunction in Zellweger Spectrum Disorder. *EMBO Reports*, **2021**, 22, e51991	6.5	6
342	Filamin C Cardiomyopathy Variants Cause Protein and Lysosome Accumulation. *Circulation Research* , **2021**, 129, 751-766	15.7	2
341	Regulation of protein abundance in genetically diverse mouse populations. *Cell Genomics*, **2021**, 100003		5
340	Global proteomics of Ubqln2-based murine models of ALS. *Journal of Biological Chemistry*, **2021**, 296, 100153	5.4	7

339	Reimagining high-throughput profiling of reactive cysteines for cell-based screening of large electrophile libraries. *Nature Biotechnology*, **2021**, 39, 630-641	44.5	37
338	Reuterin in the healthy gut microbiome suppresses colorectal cancer growth through altering redox balance.. *Cancer Cell*, **2021**,	24.3	17
337	Multiomic analysis identifies CPT1A as a potential therapeutic target in platinum-refractory, high-grade serous ovarian cancer.. *Cell Reports Medicine*, **2021**, 2, 100471	18	2
336	Assessing target engagement using proteome-wide solvent shift assays. *ELife*, **2021**, 10,	8.9	3
335	Evaluation of extracellular vesicles isolated from the cerebrospinal fluid and plasma from former National Football League players at risk for chronic traumatic encephalopathy. *Alzheimer's and Dementia*, **2020**, 16, e042233	1.2	
334	Obesity Shapes Metabolism in the Tumor Microenvironment to Suppress Anti-Tumor Immunity. *Cell* , **2020**, 183, 1848-1866.e26	56.2	112
333	Facultative protein selenation regulates redox sensitivity, adipose tissue thermogenesis, and obesity. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 10789-10796	11.5	13
332	Selective Alanine Transporter Utilization Creates a Targetable Metabolic Niche in Pancreatic Cancer. *Cancer Discovery*, **2020**, 10, 1018-1037	24.4	40
331	Defective NADPH production in mitochondrial disease complex I causes inflammation and cell death. *Nature Communications*, **2020**, 11, 2714	17.4	33
330	Quantitative analysis of Y-Chromosome gene expression across 36 human tissues. *Genome Research*, **2020**, 30, 860-873	9.7	15
329	Homogeneous Oligomers of Pro-apoptotic BAX Reveal Structural Determinants of Mitochondrial Membrane Permeabilization. *Molecular Cell*, **2020**, 79, 68-83.e7	17.6	12
328	TMTpro reagents: a set of isobaric labeling mass tags enables simultaneous proteome-wide measurements across 16 samples. *Nature Methods*, **2020**, 17, 399-404	21.6	123
327	Chromatin accessibility promotes hematopoietic and leukemia stem cell activity. *Nature Communications*, **2020**, 11, 1406	17.4	15
326	Paradoxical mitotic exit induced by a small molecule inhibitor of APC/C. *Nature Chemical Biology*, **2020**, 16, 546-555	11.7	9
325	Targeting the cyclin-dependent kinase 5 in metastatic melanoma. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 8001-8012	11.5	7
324	A Triple Knockout Isobaric-Labeling Quality Control Platform with an Integrated Online Database Search. *Journal of the American Society for Mass Spectrometry*, **2020**, 31, 1344-1349	3.5	10
323	Selection of Heating Temperatures Improves the Sensitivity of the Proteome Integral Solubility Alteration Assay. *Journal of Proteome Research*, **2020**, 19, 2159-2166	5.6	8
322	Full-Featured, Real-Time Database Searching Platform Enables Fast and Accurate Multiplexed Quantitative Proteomics. *Journal of Proteome Research*, **2020**, 19, 2026-2034	5.6	61

321	The Insulin Receptor Adaptor IRS2 is an APC/C Substrate That Promotes Cell Cycle Protein Expression and a Robust Spindle Assembly Checkpoint. *Molecular and Cellular Proteomics*, **2020**, 19, 1450-1467	7.6	2
320	A Quantitative Tissue-Specific Landscape of Protein Redox Regulation during Aging. *Cell*, **2020**, 180, 968-983.e24	56.2	105
319	ELAC1 Repairs tRNAs Cleaved during Ribosome-Associated Quality Control. *Cell Reports*, **2020**, 30, 2106-2114.e5	7.6	3
318	Quantitative Proteomics of the Cancer Cell Line Encyclopedia. *Cell*, **2020**, 180, 387-402.e16	56.2	210
317	Parallel Notched Gas-Phase Enrichment for Improved Proteome Identification and Quantification with Fast Spectral Acquisition Rates. *Journal of Proteome Research*, **2020**, 19, 2750-2757	5.6	2
316	Mechanism of adrenergic Ca1.2 stimulation revealed by proximity proteomics. *Nature*, **2020**, 577, 695-700	50.4	86
315	Loss of tumor suppressor inositol polyphosphate 4-phosphatase type B impairs DNA double-strand break repair by destabilization of DNA tethering protein Rad50. *Cell Death and Disease*, **2020**, 11, 292	9.8	1
314	Cdk1 Controls Global Epigenetic Landscape in Embryonic Stem Cells. *Molecular Cell*, **2020**, 78, 459-476.e13	17.6	24
313	Benchmarking the Orbitrap Tribrid Eclipse for Next Generation Multiplexed Proteomics. *Analytical Chemistry*, **2020**, 92, 6478-6485	7.8	24
312	Sample multiplexing for targeted pathway proteomics in aging mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 9723-9732	11.5	29
311	O-GlcNAc regulates gene expression by controlling detained intron splicing. *Nucleic Acids Research*, **2020**, 48, 5656-5669	20.1	24
310	An expanded mouse testis transcriptome and mass spectrometry defines novel proteins. *Reproduction*, **2020**, 159, 15-26	3.8	3
309	Mechanisms of Wnt5a-Ror Signaling in Development and Disease. *FASEB Journal*, **2020**, 34, 1-1	0.9	
308	A conserved RNA degradation complex required for spreading and epigenetic inheritance of heterochromatin. *ELife*, **2020**, 9,	8.9	8
307	Mitochondrial fatty acid synthesis coordinates oxidative metabolism in mammalian mitochondria. *ELife*, **2020**, 9,	8.9	20
306	Quantitative Proteome Responses to Oncolytic Reovirus in GM-CSF- and M-CSF-Differentiated Bone Marrow-Derived Cells. *Journal of Proteome Research*, **2020**, 19, 708-718	5.6	2
305	Dynamic proteome profiling of human pluripotent stem cell-derived pancreatic progenitors. *Stem Cells*, **2020**, 38, 542-555	5.8	3
304	High-density chemical cross-linking for modeling protein interactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 93-102	11.5	33

303	Optimized Workflow for Multiplexed Phosphorylation Analysis of TMT-Labeled Peptides Using High-Field Asymmetric Waveform Ion Mobility Spectrometry. *Journal of Proteome Research*, **2020**, 19, 554-560	5.6	25
302	Native Chromatin Proteomics Reveals a Role for Specific Nucleoporins in Heterochromatin Organization and Maintenance. *Molecular Cell*, **2020**, 77, 51-66.e8	17.6	34
301	ADAM17 cytoplasmic domain modulates Thioredoxin-1 conformation and activity. *Redox Biology*, **2020**, 37, 101735	11.3	2
300	WRNIP1 Is Recruited to DNA Interstrand Crosslinks and Promotes Repair. *Cell Reports*, **2020**, 32, 107850	10.6	3
299	PHD3 Loss Promotes Exercise Capacity and Fat Oxidation in Skeletal Muscle. *Cell Metabolism*, **2020**, 32, 215-228.e7	24.6	8
298	Co-option of Plasmodium falciparum PP1 for egress from host erythrocytes. *Nature Communications*, **2020**, 11, 3532	17.4	14
297	The Arg/N-degron pathway targets transcription factors and regulates specific genes. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 31094-31104	11.5	2
296	Integrated Proteogenomic Characterization across Major Histological Types of Pediatric Brain Cancer. *Cell*, **2020**, 183, 1962-1985.e31	56.2	45
295	3D Culture Models with CRISPR Screens Reveal Hyperactive NRF2 as a Prerequisite for Spheroid Formation via Regulation of Proliferation and Ferroptosis. *Molecular Cell*, **2020**, 80, 828-844.e6	17.6	40
294	pH-Gated Succinate Secretion Regulates Muscle Remodeling in Response to Exercise. *Cell*, **2020**, 183, 62-75.e17	56.2	37
293	Translation elongation factor 2 depletion by siRNA in mouse liver leads to mTOR-independent translational upregulation of ribosomal protein genes. *Scientific Reports*, **2020**, 10, 15473	4.9	5
292	Proteomic Profiling of Extracellular Vesicles Derived from Cerebrospinal Fluid of Alzheimer's Disease Patients: A Pilot Study. *Cells*, **2020**, 9,	7.9	23
291	Multiplexed proteome profiling of carbon source perturbations in two yeast species with SL-SP3-TMT. *Journal of Proteomics*, **2020**, 210, 103531	3.9	11
290	Proteomic Profiling of Extracellular Vesicles Isolated From Cerebrospinal Fluid of Former National Football League Players at Risk for Chronic Traumatic Encephalopathy. *Frontiers in Neuroscience*, **2019**, 13, 1059	5.1	26
289	mTMT: An Alternative, Nonisobaric, Tandem Mass Tag Allowing for Precursor-Based Quantification. *Analytical Chemistry*, **2019**, 91, 12167-12172	7.8	7
288	Proteogenomic Network Analysis of Context-Specific KRAS Signaling in Mouse-to-Human Cross-Species Translation. *Cell Systems*, **2019**, 9, 258-270.e6	10.6	18
287	The RNA Helicase DDX6 Controls Cellular Plasticity by Modulating P-Body Homeostasis. *Cell Stem Cell*, **2019**, 25, 622-638.e13	18	35
286	Evaluating False Transfer Rates from the Match-between-Runs Algorithm with a Two-Proteome Model. *Journal of Proteome Research*, **2019**, 18, 4020-4026	5.6	25

285	Characterization and Optimization of Multiplexed Quantitative Analyses Using High-Field Asymmetric-Waveform Ion Mobility Mass Spectrometry. *Analytical Chemistry*, **2019**, 91, 4010-4016	7.8	77
284	Phosphorylation of FANCD2 Inhibits the FANCD2/FANCI Complex and Suppresses the Fanconi Anemia Pathway in the Absence of DNA Damage. *Cell Reports*, **2019**, 27, 2990-3005.e5	10.6	18
283	GENE-19. DEEP PROTEOMIC SURVEY ACROSS SEVEN CHILDHOOD BRAIN TUMORS. *Neuro-Oncology*, **2019**, 21, ii85-ii85	1	78
282	Activation of PASK by mTORC1 is required for the onset of the terminal differentiation program. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 10382-10391	11.5	13
281	Therapy-Induced MHC I Ligands Shape Neo-Antitumor CD8 T Cell Responses during Oncolytic Virus-Based Cancer Immunotherapy. *Journal of Proteome Research*, **2019**, 18, 2666-2675	5.6	12
280	Dual Sensing of Physiologic pH and Calcium by EFCAB9 Regulates Sperm Motility. *Cell*, **2019**, 177, 1480-1494.e19	36.2	55
279	Targeted Degradation of Glucose Transporters Protects against Arsenic Toxicity. *Molecular and Cellular Biology*, **2019**, 39,	4.8	5
278	Tissue-Specific Oncogenic Activity of KRAS. *Cancer Discovery*, **2019**, 9, 738-755	24.4	84
277	Epstein-Barr-Virus-Induced One-Carbon Metabolism Drives B Cell Transformation. *Cell Metabolism*, **2019**, 30, 539-555.e11	24.6	56
276	PCIF1 Catalyzes m6Am mRNA Methylation to Regulate Gene Expression. *Molecular Cell*, **2019**, 75, 620-630.e9	17.6	95
275	Investigation of Proteomic and Phosphoproteomic Responses to Signaling Network Perturbations Reveals Functional Pathway Organizations in Yeast. *Cell Reports*, **2019**, 29, 2092-2104.e4	10.6	19
274	Expedited mapping of the ligandable proteome using fully functionalized enantiomeric probe pairs. *Nature Chemistry*, **2019**, 11, 1113-1123	17.6	57
273	OR08-3 The Role Of Neuronal Plasticity In The Timing Of Puberty Onset: Insights From A Mkrn3 Deficient Mouse Model.. *Journal of the Endocrine Society*, **2019**, 3,	0.4	1
272	Multiplexed Relative Quantitation with Isobaric Tagging Mass Spectrometry Reveals Class I Major Histocompatibility Complex Ligand Dynamics in Response to Doxorubicin. *Analytical Chemistry*, **2019**, 91, 5106-5115	7.8	12
271	Regulation of MicroRNA Machinery and Development by Interspecies S-Nitrosylation. *Cell*, **2019**, 176, 1014-1025.e12	56.2	41
270	Thiol-based direct threat sensing by the stress-activated protein kinase Hog1. *Science Signaling*, **2019**, 12,	8.8	4
269	Mitotic regulators TPX2 and Aurora A protect DNA forks during replication stress by counteracting 53BP1 function. *Journal of Cell Biology*, **2019**, 218, 422-432	7.3	21
268	Web-Based Search Tool for Visualizing Instrument Performance Using the Triple Knockout (TKO) Proteome Standard. *Journal of Proteome Research*, **2019**, 18, 687-693	5.6	21

267	Active Instrument Engagement Combined with a Real-Time Database Search for Improved Performance of Sample Multiplexing Workflows. *Journal of Proteome Research*, **2019**, 18, 1299-1306	5.6	58
266	Proteomic profiling of yeast heterochromatin connects direct physical and genetic interactions. *Current Genetics*, **2019**, 65, 495-505	2.9	2
265	TomahaqCompanion: A Tool for the Creation and Analysis of Isobaric Label Based Multiplexed Targeted Assays. *Journal of Proteome Research*, **2019**, 18, 594-605	5.6	10
264	TKO6: A Peptide Standard To Assess Interference for Unit-Resolved Isobaric Labeling Platforms. *Journal of Proteome Research*, **2019**, 18, 565-570	5.6	9
263	An Internal Standard for Assessing Phosphopeptide Recovery from Metal Ion/Oxide Enrichment Strategies. *Journal of the American Society for Mass Spectrometry*, **2018**, 29, 1505-1511	3.5	20
262	Characterization of Plasmodium falciparum Atypical Kinase PfPK7 Dependent Phosphoproteome. *Journal of Proteome Research*, **2018**, 17, 2112-2123	5.6	17
261	Isobaric Tag-Based Protein Profiling of a Nicotine-Treated Alpha7 Nicotinic Receptor-Null Human Haploid Cell Line. *Proteomics*, **2018**, 18, e1700475	4.8	7
260	Multiplexed Isobaric Tag-Based Profiling of Seven Murine Tissues Following In Vivo Nicotine Treatment Using a Minimalistic Proteomics Strategy. *Proteomics*, **2018**, 18, e1700326	4.8	10
259	Proteome-Wide Evaluation of Two Common Protein Quantification Methods. *Journal of Proteome Research*, **2018**, 17, 1934-1942	5.6	75
258	Phosphorylation of Beta-3 adrenergic receptor at serine 247 by ERK MAP kinase drives lipolysis in obese adipocytes. *Molecular Metabolism*, **2018**, 12, 25-38	8.8	39
257	Dynamics of PARKIN-Dependent Mitochondrial Ubiquitylation in Induced Neurons and Model Systems Revealed by Digital Snapshot Proteomics. *Molecular Cell*, **2018**, 70, 211-227.e8	17.6	95
256	OTUD4 Is a Phospho-Activated K63 Deubiquitinase that Regulates MyD88-Dependent Signaling. *Molecular Cell*, **2018**, 69, 505-516.e5	17.6	34
255	Filter-Based Protein Digestion (FPD): A Detergent-Free and Scaffold-Based Strategy for TMT Workflows. *Journal of Proteome Research*, **2018**, 17, 1227-1234	5.6	13
254	Kinase-independent function of E-type cyclins in liver cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1015-1020	11.5	21
253	Loss of the deubiquitinase USP36 destabilizes the RNA helicase DHX33 and causes preimplantation lethality in mice. *Journal of Biological Chemistry*, **2018**, 293, 2183-2194	5.4	16
252	Role of Selenof as a Gatekeeper of Secreted Disulfide-Rich Glycoproteins. *Cell Reports*, **2018**, 23, 1387-1398	8.6	36
251	BioPlex Display: An Interactive Suite for Large-Scale AP-MS Protein-Protein Interaction Data. *Journal of Proteome Research*, **2018**, 17, 722-726	5.6	21
250	Accumulation of succinate controls activation of adipose tissue thermogenesis. *Nature*, **2018**, 560, 102-106	36.4	204

249	Erythrocytes lacking the Langereis blood group protein ABCB6 are resistant to the malaria parasite. *Communications Biology*, **2018**, 1, 45	6.7	13
248	Streamlined Tandem Mass Tag (SL-TMT) Protocol: An Efficient Strategy for Quantitative (Phospho)proteome Profiling Using Tandem Mass Tag-Synchronous Precursor Selection-MS3. *Journal of Proteome Research*, **2018**, 17, 2226-2236	5.6	120
247	Reduced MEK inhibition preserves genomic stability in naive human embryonic stem cells. *Nature Methods*, **2018**, 15, 732-740	21.6	44
246	Automethylation-induced conformational switch in Clr4 (Suv39h) maintains epigenetic stability. *Nature*, **2018**, 560, 504-508	50.4	36
245	ACP Acylation Is an Acetyl-CoA-Dependent Modification Required for Electron Transport Chain Assembly. *Molecular Cell*, **2018**, 71, 567-580.e4	17.6	49
244	Interactome analyses revealed that the U1 snRNP machinery overlaps extensively with the RNAP II machinery and contains multiple ALS/SMA-causative proteins. *Scientific Reports*, **2018**, 8, 8755	4.9	39
243	The skeletal phenotype of achondrogenesis type 1A is caused exclusively by cartilage defects. *Development (Cambridge)*, **2018**, 145,	6.6	8
242	Nudt21 Controls Cell Fate by Connecting Alternative Polyadenylation to Chromatin Signaling. *Cell*, **2018**, 172, 106-120.e21	56.2	55
241	Compositional Proteomics: Effects of Spatial Constraints on Protein Quantification Utilizing Isobaric Tags. *Journal of Proteome Research*, **2018**, 17, 590-599	5.6	33
240	The effects of nonignorable missing data on label-free mass spectrometry proteomics experiments. *Annals of Applied Statistics*, **2018**, 12, 2075-2095	2.1	22
239	Identification of UHRF2 as a novel DNA interstrand crosslink sensor protein. *PLoS Genetics*, **2018**, 14, e1007643	6	14
238	The neurodegenerative diseases ALS and SMA are linked at the molecular level via the ASC-1 complex. *Nucleic Acids Research*, **2018**, 46, 11939-11951	20.1	21
237	Defective respiration and one-carbon metabolism contribute to impaired naïve T cell activation in aged mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 13347-13352	11.5	51
236	Structure-Based Evolution of Low Nanomolar O-GlcNAc Transferase Inhibitors. *Journal of the American Chemical Society*, **2018**, 140, 13542-13545	16.4	59
235	Apolipoprotein E is a pancreatic extracellular factor that maintains mature β-cell gene expression. *PLoS ONE*, **2018**, 13, e0204595	3.7	4
234	Altered patterns of global protein synthesis and translational fidelity in RPS15-mutated chronic lymphocytic leukemia. *Blood*, **2018**, 132, 2375-2388	2.2	31
233	The NAD Salvage Pathway Supports PHGDH-Driven Serine Biosynthesis. *Cell Reports*, **2018**, 24, 2381-2391.e5	7.6	25
232	Cardiolipin Synthesis in Brown and Beige Fat Mitochondria Is Essential for Systemic Energy Homeostasis. *Cell Metabolism*, **2018**, 28, 159-174.e11	24.6	67

231	Plasmodium falciparum CRK4 directs continuous rounds of DNA replication during schizogony. *Nature Microbiology*, **2017**, 2, 17017	26.6	41
230	Multiplexed Phosphoproteomic Profiling Using Titanium Dioxide and Immunoaffinity Enrichments Reveals Complementary Phosphorylation Events. *Journal of Proteome Research*, **2017**, 16, 1506-1514	5.6	33
229	G1 cyclins link proliferation, pluripotency and differentiation of embryonic stem cells. *Nature Cell Biology*, **2017**, 19, 177-188	23.4	76
228	Structural Analysis of Mycobacterium tuberculosis Homologues of the Eukaryotic Proteasome Assembly Chaperone 2 (PAC2). *Journal of Bacteriology*, **2017**, 199,	3.5	3
227	Evidence that C9ORF72 Dipeptide Repeat Proteins Associate with U2 snRNP to Cause Mis-splicing in ALS/FTD Patients. *Cell Reports*, **2017**, 19, 2244-2256	10.6	60
226	A Temporal Proteomic Map of Epstein-Barr Virus Lytic Replication in B Cells. *Cell Reports*, **2017**, 19, 1479-1493	10.6	53
225	Architecture of the human interactome defines protein communities and disease networks. *Nature*, **2017**, 545, 505-509	50.4	755
224	UCP1 deficiency causes brown fat respiratory chain depletion and sensitizes mitochondria to calcium overload-induced dysfunction. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 7981-7986	11.5	86
223	Unique roles for histone H3K9me states in RNAi and heritable silencing of transcription. *Nature*, **2017**, 547, 463-467	50.4	66
222	The metabolic function of cyclin D3-CDK6 kinase in cancer cell survival. *Nature*, **2017**, 546, 426-430	50.4	189
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5	Time-resolved proteomic profiling of the ciliary Hedgehog response reveals that GPR161 and PKA undergo regulated co-exit from cilia		5
4	DPP9 directly sequesters the NLRP1 C-terminus to repress inflammasome activation		2
3	Full-featured, real-time database searching platform enables fast and accurate multiplexed quantitative proteomics		6
2	A conserved signaling network monitors delivery of sphingolipids to the plasma membrane in budding yeast		1
1	Aging predisposes B cells to malignancy by activating c-Myc and perturbing the genome and epigenome		1