

James Akira Wohlschlegel

List of Publications by Citations

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130
papers

3,584
citations

33
h-index

56
g-index

145
ext. papers

4,896
ext. citations

11
avg, IF

5.31
L-index

#	Paper	IF	Citations
130	Mitochondria Bound to Lipid Droplets Have Unique Bioenergetics, Composition, and Dynamics that Support Lipid Droplet Expansion. <i>Cell Metabolism</i> , 2018 , 27, 869-885.e6	24.6	217
129	Coordination of m(6)A mRNA Methylation and Gene Transcription by ZFP217 Regulates Pluripotency and Reprogramming. <i>Cell Stem Cell</i> , 2015 , 17, 689-704	18	185
128	Molecular mechanism of action of plant DRM de novo DNA methyltransferases. <i>Cell</i> , 2014 , 157, 1050-60	56.2	179
127	Phosphoproteome Integration Reveals Patient-Specific Networks in Prostate Cancer. <i>Cell</i> , 2016 , 166, 1041-1054	56.2	132
126	Mechanism of DNA methylation-directed histone methylation by KRYPTONITE. <i>Molecular Cell</i> , 2014 , 55, 495-504	17.6	120
125	DNA-PKcs-Mediated Transcriptional Regulation Drives Prostate Cancer Progression and Metastasis. <i>Cancer Cell</i> , 2015 , 28, 97-113	24.3	116
124	Novel components of the Toxoplasma inner membrane complex revealed by BioID. <i>MBio</i> , 2015 , 6, e02357-14	7.8	113
123	Domains rearranged methyltransferase3 controls DNA methylation and regulates RNA polymerase V transcript abundance in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 911-6	11.5	110
122	A DNA methylation reader complex that enhances gene transcription. <i>Science</i> , 2018 , 362, 1182-1186	33.3	103
121	Photoactivation and inactivation of Arabidopsis cryptochrome 2. <i>Science</i> , 2016 , 354, 343-347	33.3	101
120	Rbfox Proteins Regulate Splicing as Part of a Large Multiprotein Complex LASR. <i>Cell</i> , 2016 , 165, 606-19	56.2	97
119	In Vivo Biotinylation of the Toxoplasma Parasitophorous Vacuole Reveals Novel Dense Granule Proteins Important for Parasite Growth and Pathogenesis. <i>MBio</i> , 2016 , 7,	7.8	89
118	Role of Nfu1 and Bol3 in iron-sulfur cluster transfer to mitochondrial clients. <i>ELife</i> , 2016 , 5,	8.9	86
117	Deposition of 5-Methylcytosine on Enhancer RNAs Enables the Coactivator Function of PGC-1. <i>Cell Reports</i> , 2016 , 14, 479-492	10.6	68
116	INVOLVED IN DE NOVO 2-containing complex involved in RNA-directed DNA methylation in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8374-81	11.5	61
115	Identification of SUMO-conjugated proteins and their SUMO attachment sites using proteomic mass spectrometry. <i>Methods in Molecular Biology</i> , 2009 , 497, 33-49	1.4	58
114	Identification of the Mitochondrial Heme Metabolism Complex. <i>PLoS ONE</i> , 2015 , 10, e0135896	3.7	58

113	Molecular basis for blue light-dependent phosphorylation of Arabidopsis cryptochrome 2. <i>Nature Communications</i> , 2017 , 8, 15234	17.4	56
112	Systemic surfaceome profiling identifies target antigens for immune-based therapy in subtypes of advanced prostate cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E4473-E4482	11.5	56
111	A Novel Role for Progesterone Receptor Membrane Component 1 (PGRMC1): A Partner and Regulator of Ferrochelatase. <i>Biochemistry</i> , 2016 , 55, 5204-17	3.2	51
110	Rapid degradation of mutant SLC25A46 by the ubiquitin-proteasome system results in MFN1/2-mediated hyperfusion of mitochondria. <i>Molecular Biology of the Cell</i> , 2017 , 28, 600-612	3.5	50
109	Transcriptional gene silencing by Arabidopsis microorchidia homologues involves the formation of heteromers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7474-9	11.5	48
108	Insect stage-specific receptor adenylate cyclases are localized to distinct subdomains of the Trypanosoma brucei Flagellar membrane. <i>Eukaryotic Cell</i> , 2014 , 13, 1064-76		45
107	A PCBP1-BolA2 chaperone complex delivers iron for cytosolic [2Fe-2S] cluster assembly. <i>Nature Chemical Biology</i> , 2019 , 15, 872-881	11.7	43
106	Evidence for ubiquitin-regulated nuclear and subnuclear trafficking among Paramyxovirinae matrix proteins. <i>PLoS Pathogens</i> , 2015 , 11, e1004739	7.6	41
105	Identification of ubiquitination sites and determination of ubiquitin-chain architectures by mass spectrometry. <i>Methods in Enzymology</i> , 2005 , 399, 266-77	1.7	41
104	Copper-zinc superoxide dismutase is activated through a sulfenic acid intermediate at a copper ion entry site. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12025-12040	5.4	39
103	eIF4F-like complexes formed by cap-binding homolog TbEIF4E5 with TbEIF4G1 or TbEIF4G2 are implicated in post-transcriptional regulation in Trypanosoma brucei. <i>Rna</i> , 2014 , 20, 1272-86	5.8	36
102	Novel insights into the composition and function of the Toxoplasma IMC sutures. <i>Cellular Microbiology</i> , 2017 , 19, e12678	3.9	36
101	Cell Surface Proteomics Provides Insight into Stage-Specific Remodeling of the Host-Parasite Interface in Trypanosoma brucei. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 1977-88	7.6	35
100	Bottom-up structural proteomics: cryoEM of protein complexes enriched from the cellular milieu. <i>Nature Methods</i> , 2020 , 17, 79-85	21.6	35
99	The PRMT5/WDR77 complex regulates alternative splicing through ZNF326 in breast cancer. <i>Nucleic Acids Research</i> , 2017 , 45, 11106-11120	20.1	34
98	The blue light-dependent phosphorylation of the CCE domain determines the photosensitivity of Arabidopsis CRY2. <i>Molecular Plant</i> , 2015 , 8, 631-43	14.4	33
97	C-terminal domains of a histone demethylase interact with a pair of transcription factors and mediate specific chromatin association. <i>Cell Discovery</i> , 2015 , 1,	22.3	33
96	Trypanosoma brucei translation initiation factor homolog EIF4E6 forms a tripartite cytosolic complex with EIF4G5 and a capping enzyme homolog. <i>Eukaryotic Cell</i> , 2014 , 13, 896-908		33

95	Extracellular microRNAs in human circulation are associated with miRISC complexes that are accessible to anti-AGO2 antibody and can bind target mimic oligonucleotides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24213-24223	11.5	32
94	Arabidopsis SWR1-associated protein methyl-CpG-binding domain 9 is required for histone H2A.Z deposition. <i>Nature Communications</i> , 2019 , 10, 3352	17.4	31
93	The Association of the Xeroderma Pigmentosum Group D DNA Helicase (XPD) with Transcription Factor IIH Is Regulated by the Cytosolic Iron-Sulfur Cluster Assembly Pathway. <i>Journal of Biological Chemistry</i> , 2015 , 290, 14218-25	5.4	30
92	Fumarate Mediates a Chronic Proliferative Signal in Fumarate Hydratase-Inactivated Cancer Cells by Increasing Transcription and Translation of Ferritin Genes. <i>Molecular and Cellular Biology</i> , 2017 , 37,	4.8	29
91	Mot1, Ino80C, and NC2 Function Coordinately to Regulate Pervasive Transcription in Yeast and Mammals. <i>Molecular Cell</i> , 2017 , 67, 594-607.e4	17.6	29
90	JAKMIP1, a Novel Regulator of Neuronal Translation, Modulates Synaptic Function and Autistic-like Behaviors in Mouse. <i>Neuron</i> , 2015 , 88, 1173-1191	13.9	28
89	Fumarate hydratase inactivation in hereditary leiomyomatosis and renal cell cancer is synthetic lethal with ferroptosis induction. <i>Cancer Science</i> , 2018 , 109, 2757-2766	6.9	28
88	Loss of the BBSome perturbs endocytic trafficking and disrupts virulence of <i>Trypanosoma brucei</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 632-7	11.5	27
87	Arabidopsis AtMORC4 and AtMORC7 Form Nuclear Bodies and Repress a Large Number of Protein-Coding Genes. <i>PLoS Genetics</i> , 2016 , 12, e1005998	6	27
86	Cbx3 maintains lineage specificity during neural differentiation. <i>Genes and Development</i> , 2017 , 31, 241-246	11.6	26
85	KCTD7 deficiency defines a distinct neurodegenerative disorder with a conserved autophagy-lysosome defect. <i>Annals of Neurology</i> , 2018 , 84, 766-780	9.4	26
84	FXR activation protects against NAFLD via bile-acid-dependent reductions in lipid absorption. <i>Cell Metabolism</i> , 2021 , 33, 1671-1684.e4	24.6	25
83	Cell biological mechanisms of activity-dependent synapse to nucleus translocation of CRT1 in neurons. <i>Frontiers in Molecular Neuroscience</i> , 2015 , 8, 48	6.1	24
82	Proteomic, gene and metabolite characterization reveal the uptake and toxicity mechanisms of cadmium sulfide quantum dots in soybean plants. <i>Environmental Science: Nano</i> , 2019 , 6, 3010-3026	7.1	23
81	DNA Damage Regulates Translation through ERCP Targeting of CREP. <i>PLoS Genetics</i> , 2015 , 11, e1005298	11.6	23
80	Membrane-shed vesicles from the parasite <i>Trichomonas vaginalis</i> : characterization and their association with cell interaction. <i>Cellular and Molecular Life Sciences</i> , 2018 , 75, 2211-2226	10.3	23
79	Three Different Pathways Prevent Chromosome Segregation in the Presence of DNA Damage or Replication Stress in Budding Yeast. <i>PLoS Genetics</i> , 2015 , 11, e1005468	6	21
78	PRB1 is required for clipping of the histone H3 N terminal tail in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2014 , 9, e90496	3.7	21

77	Neospora caninum Activates p38 MAPK as an Evasion Mechanism against Innate Immunity. <i>Frontiers in Microbiology</i> , 2016 , 7, 1456	5.7	21
76	The Rhoptry Pseudokinase ROP54 Modulates Toxoplasma gondii Virulence and Host GBP2 Loading. <i>MSphere</i> , 2016 , 1,	5	19
75	SNF2 chromatin remodeler-family proteins FRG1 and -2 are required for RNA-directed DNA methylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17666-71	11.5	19
74	EXP1 is required for organisation of EXP2 in the intraerythrocytic malaria parasite vacuole. <i>Cellular Microbiology</i> , 2020 , 22, e13168	3.9	18
73	Release of cholesterol-rich particles from the macrophage plasma membrane during movement of filopodia and lamellipodia. <i>ELife</i> , 2019 , 8,	8.9	17
72	A nicotinamide phosphoribosyltransferase-GAPDH interaction sustains the stress-induced NMN/NAD salvage pathway in the nucleus. <i>Journal of Biological Chemistry</i> , 2020 , 295, 3635-3651	5.4	15
71	A novel histone deacetylase complex in the control of transcription and genome stability. <i>Molecular and Cellular Biology</i> , 2014 , 34, 3500-14	4.8	15
70	Large-scale remodeling of a repressed exon ribonucleoprotein to an exon definition complex active for splicing. <i>ELife</i> , 2016 , 5,	8.9	15
69	FBXO44 promotes DNA replication-coupled repetitive element silencing in cancer cells. <i>Cell</i> , 2021 , 184, 352-369.e23	56.2	15
68	A unique insertion in STARD9 ^{TS} motor domain regulates its stability. <i>Molecular Biology of the Cell</i> , 2015 , 26, 440-52	3.5	14
67	A continuum of mRNP complexes in embryonic microRNA-mediated silencing. <i>Nucleic Acids Research</i> , 2017 , 45, 2081-2098	20.1	14
66	Ancient MAPK ERK7 is regulated by an unusual inhibitory scaffold required for apical complex biogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12164-12173	11.5	13
65	Impact of isolation methods on the biophysical heterogeneity of single extracellular vesicles. <i>Scientific Reports</i> , 2020 , 10, 13327	4.9	13
64	Determining the Mitochondrial Methyl Proteome in Saccharomyces cerevisiae using Heavy Methyl SILAC. <i>Journal of Proteome Research</i> , 2016 , 15, 4436-4451	5.6	13
63	CryoEM structures of Arabidopsis DDR complexes involved in RNA-directed DNA methylation. <i>Nature Communications</i> , 2019 , 10, 3916	17.4	12
62	Wnt-inducible Lrp6-APEX2 interacting proteins identify ESCRT machinery and Trk-fused gene as components of the Wnt signaling pathway. <i>Scientific Reports</i> , 2020 , 10, 21555	4.9	12
61	The MBD7 complex promotes expression of methylated transgenes without significantly altering their methylation status. <i>ELife</i> , 2017 , 6,	8.9	12
60	REH2C Helicase and GRBC Subcomplexes May Base Pair through mRNA and Small Guide RNA in Kinetoplastid Editosomes. <i>Journal of Biological Chemistry</i> , 2016 , 291, 5753-5764	5.4	12

59	Poly(rC)-Binding Protein 2 Regulates Hippo Signaling To Control Growth in Breast Epithelial Cells. <i>Molecular and Cellular Biology</i> , 2016 , 36, 2121-31	4.8	12
58	The Yeast DNA Damage Checkpoint Kinase Rad53 Targets the Exoribonuclease, Xrn1. <i>G3: Genes, Genomes, Genetics</i> , 2018 , 8, 3931-3944	3.2	12
57	Caenorhabditis elegans ALG-1 antimorphic mutations uncover functions for Argonaute in microRNA guide strand selection and passenger strand disposal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5271-80	11.5	11
56	Trypanosoma brucei EIF4E2 cap-binding protein binds a homolog of the histone-mRNA stem-loop-binding protein. <i>Current Genetics</i> , 2018 , 64, 821-839	2.9	10
55	An Oxygen-Dependent Interaction between FBXL5 and the CIA-Targeting Complex Regulates Iron Homeostasis. <i>Molecular Cell</i> , 2019 , 75, 382-393.e5	17.6	10
54	High Confidence Fission Yeast SUMO Conjugates Identified by Tandem Denaturing Affinity Purification. <i>Scientific Reports</i> , 2015 , 5, 14389	4.9	10
53	CHD6 regulates the topological arrangement of the CFTR locus. <i>Human Molecular Genetics</i> , 2015 , 24, 2724-32	5.6	10
52	Protein Palmitoylation Plays an Important Role in Adherence. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 2229-2241	7.6	9
51	microRNA-mediated translation repression through GYF-1 and IFE-4 in C. elegans development. <i>Nucleic Acids Research</i> , 2021 , 49, 4803-4815	20.1	9
50	Proximity biotinylation reveals novel secreted dense granule proteins of Toxoplasma gondii bradyzoites. <i>PLoS ONE</i> , 2020 , 15, e0232552	3.7	8
49	NAP1-RELATED PROTEIN1 and 2 negatively regulate H2A.Z abundance in chromatin in Arabidopsis. <i>Nature Communications</i> , 2020 , 11, 2887	17.4	8
48	Cdk1-interacting protein Cip1 is regulated by the S ₂ phase checkpoint in response to genotoxic stress. <i>Genes To Cells</i> , 2017 , 22, 850-860	2.3	8
47	Regulation of Arabidopsis photoreceptor CRY2 by two distinct E3 ubiquitin ligases. <i>Nature Communications</i> , 2021 , 12, 2155	17.4	8
46	MBD5 and MBD6 couple DNA methylation to gene silencing through the J-domain protein SILENZIO. <i>Science</i> , 2021 , 372,	33.3	8
45	A photoactivatable crosslinking system reveals protein interactions in the Toxoplasma gondii inner membrane complex. <i>PLoS Biology</i> , 2019 , 17, e3000475	9.7	7
44	The characterization of Mediator 12 and 13 as conditional positive gene regulators in Arabidopsis. <i>Nature Communications</i> , 2020 , 11, 2798	17.4	6
43	A Family of Argonaute-Interacting Proteins Gates Nuclear RNAi. <i>Molecular Cell</i> , 2020 , 78, 862-875.e8	17.6	5
42	Phosphorylation and Proteasome Recognition of the mRNA-Binding Protein Cth2 Facilitates Yeast Adaptation to Iron Deficiency. <i>MBio</i> , 2018 , 9,	7.8	5

41	A Robust Method for Packing High Resolution C18 RP-nano-HPLC Columns. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	4
40	Shotgun Proteomic Profiling of Bloodborne Nanoscale Extracellular Vesicles. <i>Methods in Molecular Biology</i> , 2019 , 1897, 403-416	1.4	4
39	The plant mobile domain proteins MAIN and MAIL1 interact with the phosphatase PP7L to regulate gene expression and silence transposable elements in Arabidopsis thaliana. <i>PLoS Genetics</i> , 2020 , 16, e1008324	6.8	4
38	Arabidopsis MORC proteins function in the efficient establishment of RNA directed DNA methylation. <i>Nature Communications</i> , 2021 , 12, 4292	17.4	4
37	Chemical Derivatization of Affinity Matrices Provides Protection from Tryptic Proteolysis. <i>Journal of Proteome Research</i> , 2019 , 18, 3586-3596	5.6	3
36	The Central Region of the Drosophila Co-repressor Groucho as a Regulatory Hub. <i>Journal of Biological Chemistry</i> , 2015 , 290, 30119-30	5.4	3
35	FAM111A induces nuclear dysfunction in disease and viral restriction. <i>EMBO Reports</i> , 2021 , 22, e50803	6.5	3
34	Using BioID for the Identification of Interacting and Proximal Proteins in Subcellular Compartments in Toxoplasma gondii. <i>Methods in Molecular Biology</i> , 2020 , 2071, 323-346	1.4	3
33	APEX2 Proximity Proteomics Resolves Flagellum Subdomains and Identifies Flagellum Tip-Specific Proteins in Trypanosoma brucei. <i>MSphere</i> , 2021 , 6,	5	3
32	New molecular tools in Neospora caninum for studying apicomplexan parasite proteins. <i>Scientific Reports</i> , 2017 , 7, 3768	4.9	2
31	Protein Adsorption Alters Hydrophobic Surfaces Used for Suspension Culture of Pluripotent Stem Cells. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 388-93	6.4	2
30	Integrated Transcriptome and Proteome Analyses Reveal the Regulatory Role of miR-146a in Human Limbal Epithelium via Notch Signaling. <i>Cells</i> , 2020 , 9,	7.9	2
29	Carboxylate-Modified Magnetic Bead (CMMB)-Based Isopropanol Gradient Peptide Fractionation (CIF) Enables Rapid and Robust Off-Line Peptide Mixture Fractionation in Bottom-Up Proteomics. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100039	7.6	2
28	A FBXO7/EYA2-SCF axis promotes AXL-mediated maintenance of mesenchymal and immune evasion phenotypes of cancer cells.. <i>Molecular Cell</i> , 2022 ,	17.6	2
27	Ancient MAPK ERK7 is regulated by an unusual inhibitory scaffold required for Toxoplasma apical complex biogenesis		1
26	Synergistic roles for human U1 snRNA stem-loops in pre-mRNA splicing. <i>RNA Biology</i> , 2021 , 18, 2576-2593	7.8	1
25	Lipin 1 modulates mRNA splicing during fasting adaptation in liver. <i>JCI Insight</i> , 2021 , 6,	9.9	1
24	Aim32 is a dual-localized 2Fe-2S mitochondrial protein that functions in redox quality control. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101135	5.4	1

23	Mitochondrial contact site and cristae organizing system (MICOS) machinery supports heme biosynthesis by enabling optimal performance of ferrochelatase. <i>Redox Biology</i> , 2021 , 46, 102125	11.3	1
22	A Novel Inner Membrane Complex Suture-Associated Protein Regulates Suture Protein Targeting and Colocalizes with Membrane Trafficking Machinery. <i>MBio</i> , 2021 , 12, e0245521	7.8	0
21	RGS10 physically and functionally interacts with STIM2 and requires store-operated calcium entry to regulate pro-inflammatory gene expression in microglia. <i>Cellular Signalling</i> , 2021 , 83, 109974	4.9	0
20	Human Multisubunit E3 Ubiquitin Ligase Required for Heterotrimeric G-Protein β Subunit Ubiquitination and Downstream Signaling. <i>Journal of Proteome Research</i> , 2021 , 20, 4318-4330	5.6	0
19	VPS32, a member of the ESCRT complex, modulates adherence to host cells in the parasite <i>Trichomonas vaginalis</i> by affecting biogenesis and cargo sorting of released extracellular vesicles.. <i>Cellular and Molecular Life Sciences</i> , 2021 , 79, 11	10.3	0
18	Functional identification of microRNA-centered complexes in <i>C. elegans</i> .. <i>Scientific Reports</i> , 2022 , 12, 7133	4.9	0
17	Nicotine Affects Multiple Biological Processes in EpiDerm™ Organotypic Tissues and Keratinocyte Monolayers. <i>Atmosphere</i> , 2022 , 13, 810	2.7	0
16	Retraction Note: New molecular tools in <i>Neospora caninum</i> for studying apicomplexan parasite proteins. <i>Scientific Reports</i> , 2018 , 8, 10964	4.9	
15	Proteomic Analysis of SUMO Mediated Stress Responses in Yeast. <i>FASEB Journal</i> , 2008 , 22, 605.1	0.9	
14	SUMO Mediated Response Pathways to Genotoxic Stress. <i>FASEB Journal</i> , 2009 , 23, 526.8	0.9	
13	Sequential Windowed Acquisition of Reporter Masses for Quantitation-First Proteomics. <i>Journal of Proteome Research</i> , 2019 , 18, 1893-1901	5.6	
12	The plant mobile domain proteins MAIN and MAIL1 interact with the phosphatase PP7L to regulate gene expression and silence transposable elements in <i>Arabidopsis thaliana</i> 2020 , 16, e1008324		
11	The plant mobile domain proteins MAIN and MAIL1 interact with the phosphatase PP7L to regulate gene expression and silence transposable elements in <i>Arabidopsis thaliana</i> 2020 , 16, e1008324		
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- 5 The plant mobile domain proteins MAIN and MAIL1 interact with the phosphatase PP7L to regulate gene expression and silence transposable elements in *Arabidopsis thaliana* **2020**, 16, e1008324
- 4 Proximity biotinylation reveals novel secreted dense granule proteins of *Toxoplasma gondii* bradyzoites **2020**, 15, e0232552
- 3 Proximity biotinylation reveals novel secreted dense granule proteins of *Toxoplasma gondii* bradyzoites **2020**, 15, e0232552
- 2 Proximity biotinylation reveals novel secreted dense granule proteins of *Toxoplasma gondii* bradyzoites **2020**, 15, e0232552
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