

# Ileana M Cristea

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5522205/publications.pdf>

Version: 2024-02-01

109  
papers

8,028  
citations

61857

43  
h-index

56606

83  
g-index

115  
all docs

115  
docs citations

115  
times ranked

12706  
citing authors

#	ARTICLE	IF	CITATIONS
1	The CRAPome: a contaminant repository for affinity purification-mass spectrometry data. <i>Nature Methods</i> , 2013, 10, 730-736.	9.0	1,353
2	Sirtuin 4 Is a Lipoamidase Regulating Pyruvate Dehydrogenase Complex Activity. <i>Cell</i> , 2014, 159, 1615-1625.	13.5	356
3	Enzyme clustering accelerates processing of intermediates through metabolic channeling. <i>Nature Biotechnology</i> , 2014, 32, 1011-1018.	9.4	340
4	Acetylation modulates cellular distribution and DNA sensing ability of interferon-inducible protein IFI16. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10558-10563.	3.3	264
5	The functional interactome landscape of the human histone deacetylase family. <i>Molecular Systems Biology</i> , 2013, 9, 672.	3.2	247
6	Fluorescent Proteins as Proteomic Probes. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1933-1941.	2.5	225
7	cGAS-mediated stabilization of IFI16 promotes innate signaling during herpes simplex virus infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1773-81.	3.3	220
8	Human Cytomegalovirus Tegument Protein pUL83 Inhibits IFI16-Mediated DNA Sensing for Immune Evasion. <i>Cell Host and Microbe</i> , 2013, 14, 591-599.	5.1	202
9	Human Cytomegalovirus Protein UL38 Inhibits Host Cell Stress Responses by Antagonizing the Tuberous Sclerosis Protein Complex. <i>Cell Host and Microbe</i> , 2008, 3, 253-262.	5.1	175
10	A Portrait of the Human Organelle Proteome In Space and Time during Cytomegalovirus Infection. <i>Cell Systems</i> , 2016, 3, 361-373.e6.	2.9	170
11	Tracking and Elucidating Alphavirus-Host Protein Interactions. <i>Journal of Biological Chemistry</i> , 2006, 281, 30269-30278.	1.6	164
12	Proteomics and integrative omic approaches for understanding host-pathogen interactions and infectious diseases. <i>Molecular Systems Biology</i> , 2017, 13, 922.	3.2	164
13	Bone vascular niche E-selectin induces mesenchymal-epithelial transition and Wnt activation in cancer cells to promote bone metastasis. <i>Nature Cell Biology</i> , 2019, 21, 627-639.	4.6	160
14	Subcellular proteomics. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	159
15	A high-stringency blueprint of the human proteome. <i>Nature Communications</i> , 2020, 11, 5301.	5.8	152
16	Human Cytomegalovirus pUL83 Stimulates Activity of the Viral Immediate-Early Promoter through Its Interaction with the Cellular IFI16 Protein. <i>Journal of Virology</i> , 2010, 84, 7803-7814.	1.5	143
17	Viral DNA Sensors IFI16 and Cyclic GMP-AMP Synthase Possess Distinct Functions in Regulating Viral Gene Expression, Immune Defenses, and Apoptotic Responses during Herpesvirus Infection. <i>MBio</i> , 2016, 7, .	1.8	124
18	Sirtuins Are Evolutionarily Conserved Viral Restriction Factors. <i>MBio</i> , 2014, 5, .	1.8	122

#	ARTICLE	IF	CITATIONS
19	Regulation, Function, and Detection of Protein Acetylation in Bacteria. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	112
20	Protein lipoylation: an evolutionarily conserved metabolic regulator of health and disease. <i>Current Opinion in Chemical Biology</i> , 2018, 42, 76-85.	2.8	107
21	Red Blood Cell Invasion by the Malaria Parasite Is Coordinated by the PfAP2-I Transcription Factor. <i>Cell Host and Microbe</i> , 2017, 21, 731-741.e10.	5.1	106
22	Age-related neurodegenerative disease associated pathways identified in retinal and vitreous proteome from human glaucoma eyes. <i>Scientific Reports</i> , 2017, 7, 12685.	1.6	105
23	Host Factors Associated with the Sindbis Virus RNA-Dependent RNA Polymerase: Role for G3BP1 and G3BP2 in Virus Replication. <i>Journal of Virology</i> , 2010, 84, 6720-6732.	1.5	101
24	Kinesin-3 Mediates Axonal Sorting and Directional Transport of Alphaherpesvirus Particles in Neurons. <i>Cell Host and Microbe</i> , 2012, 12, 806-814.	5.1	95
25	A Targeted Spatial-Temporal Proteomics Approach Implicates Multiple Cellular Trafficking Pathways in Human Cytomegalovirus Virion Maturation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 851-860.	2.5	90
26	Changes in mRNA abundance drive shuttling of RNA binding proteins, linking cytoplasmic RNA degradation to transcription. <i>ELife</i> , 2018, 7, .	2.8	85
27	Interactions of the Antiviral Factor Interferon Gamma-Inducible Protein 16 (IFI16) Mediate Immune Signaling and Herpes Simplex Virus-1 Immunosuppression. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 2341-2356.	2.5	84
28	Proteomic approaches to uncovering virus-host protein interactions during the progression of viral infection. <i>Expert Review of Proteomics</i> , 2016, 13, 325-340.	1.3	76
29	Membrane lipids and cell death: an overview. <i>Chemistry and Physics of Lipids</i> , 2004, 129, 133-160.	1.5	75
30	The functional interactome of <sc>PYHIN</sc> immune regulators reveals <sc>IFIX</sc> is a sensor of viral <sc>DNA</sc>. <i>Molecular Systems Biology</i> , 2015, 11, 787.	3.2	74
31	Post-translational Modifications Regulate Class IIa Histone Deacetylase (HDAC) Function in Health and Disease. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 456-470.	2.5	72
32	The Cardiac TBX5 Interactome Reveals a Chromatin Remodeling Network Essential for Cardiac Septation. <i>Developmental Cell</i> , 2016, 36, 262-275.	3.1	71
33	TGF- $\beta$ 2-induced DACT1 biomolecular condensates repress Wnt signalling to promote bone metastasis. <i>Nature Cell Biology</i> , 2021, 23, 257-267.	4.6	71
34	Temporal dynamics of protein complex formation and dissociation during human cytomegalovirus infection. <i>Nature Communications</i> , 2020, 11, 806.	5.8	71
35	Increased Expression of LDL Receptor-Related Protein 1 during Human Cytomegalovirus Infection Reduces Virion Cholesterol and Infectivity. <i>Cell Host and Microbe</i> , 2012, 12, 86-96.	5.1	70
36	The Emerging Role of Nuclear Viral DNA Sensors. <i>Journal of Biological Chemistry</i> , 2015, 290, 26412-26421.	1.6	66

#	ARTICLE	IF	CITATIONS
37	The life cycle and pathogenesis of human cytomegalovirus infection: lessons from proteomics. <i>Expert Review of Proteomics</i> , 2014, 11, 697-711.	1.3	65
38	Infection-Induced Peroxisome Biogenesis Is a Metabolic Strategy for Herpesvirus Replication. <i>Cell Host and Microbe</i> , 2018, 24, 526-541.e7.	5.1	65
39	Identification of RNA Binding Proteins Associated with Dengue Virus RNA in Infected Cells Reveals Temporally Distinct Host Factor Requirements. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004921.	1.3	56
40	The Impact of Mass Spectrometry-Based Proteomics on Fundamental Discoveries in Virology. <i>Annual Review of Virology</i> , 2014, 1, 581-604.	3.0	55
41	Two Modes of the Axonal Interferon Response Limit Alphaherpesvirus Neuroinvasion. <i>MBio</i> , 2016, 7, e02145-15.	1.8	53
42	<sc>ComGA</sc>â€<sc>RelA</sc> interaction and persistence in the <sc><i>B</i></sc><i>acillus subtilis</i>â€...<sc>K</sc>â€state. <i>Molecular Microbiology</i> , 2015, 97, 454-471.	1.2	50
43	HIVâ€host interactome revealed directly from infected cells. <i>Nature Microbiology</i> , 2016, 1, 16068.	5.9	49
44	Intricate Roles of Mammalian Sirtuins in Defense against Viral Pathogens. <i>Journal of Virology</i> , 2016, 90, 5-8.	1.5	49
45	Mitochondrial Function, Metabolic Regulation, and Human Disease Viewed through the Prism of Sirtuin 4 (SIRT4) Functions. <i>Journal of Proteome Research</i> , 2019, 18, 1929-1938.	1.8	46
46	Thiouracil Cross-Linking Mass Spectrometry: a Cell-Based Method To Identify Host Factors Involved in Viral Amplification. <i>Journal of Virology</i> , 2013, 87, 8697-8712.	1.5	39
47	The Number of Alphaherpesvirus Particles Infecting Axons and the Axonal Protein Repertoire Determines the Outcome of Neuronal Infection. <i>MBio</i> , 2015, 6, .	1.8	38
48	Research on the Human Proteome Reaches a Major Milestone: >90% of Predicted Human Proteins Now Credibly Detected, According to the HUPO Human Proteome Project. <i>Journal of Proteome Research</i> , 2020, 19, 4735-4746.	1.8	38
49	Peroxisome Plasticity at the Virusâ€Host Interface. <i>Trends in Microbiology</i> , 2019, 27, 906-914.	3.5	37
50	Cardiac proteomics reveals sex chromosome-dependent differences between males and females that arise prior to gonad formation. <i>Developmental Cell</i> , 2021, 56, 3019-3034.e7.	3.1	37
51	Pfh1 Is an Accessory Replicative Helicase that Interacts with the Replisome to Facilitate Fork Progression and Preserve Genome Integrity. <i>PLoS Genetics</i> , 2016, 12, e1006238.	1.5	35
52	Temporal Regulation of the Bacillus subtilis Acetylome and Evidence for a Role of MreB Acetylation in Cell Wall Growth. <i>MSystems</i> , 2016, 1, .	1.7	35
53	Diverse mechanisms evolved by DNA viruses to inhibit early host defenses. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2016, 51, 452-481.	2.3	34
54	Interactome and Proteome Dynamics Uncover Immune Modulatory Associations of the Pathogen Sensing Factor cGAS. <i>Cell Systems</i> , 2018, 7, 627-642.e6.	2.9	34

#	ARTICLE	IF	CITATIONS
55	Proteomics of yeast telomerase identified Cdc48-Npl4-Ufd1 and Ufd4 as regulators of Est1 and telomere length. <i>Nature Communications</i> , 2015, 6, 8290.	5.8	32
56	Transcriptional Elongation of HSV Immediate Early Genes by the Super Elongation Complex Drives Lytic Infection and Reactivation from Latency. <i>Cell Host and Microbe</i> , 2017, 21, 507-517.e5.	5.1	32
57	Proteomics Tracing the Footsteps of Infectious Disease. <i>Molecular and Cellular Proteomics</i> , 2017, 16, S5-S14.	2.5	32
58	Location is everything: protein translocations as a viral infection strategy. <i>Current Opinion in Chemical Biology</i> , 2019, 48, 34-43.	2.8	32
59	Affinity Purification of Protein Complexes. <i>Cold Spring Harbor Protocols</i> , 2011, 2011, pdb.prot5611.	0.2	30
60	Exploring and Exploiting Proteome Organization during Viral Infection. <i>Journal of Virology</i> , 2017, 91, .	1.5	30
61	Progress Identifying and Analyzing the Human Proteome: 2021 Metrics from the HUPO Human Proteome Project. <i>Journal of Proteome Research</i> , 2021, 20, 5227-5240.	1.8	30
62	The DNA Sensor cGAS is Decorated by Acetylation and Phosphorylation Modifications in the Context of Immune Signaling. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1193-1208.	2.5	29
63	Sirtuin Lipoamidase Activity Is Conserved in Bacteria as a Regulator of Metabolic Enzyme Complexes. <i>MBio</i> , 2017, 8, .	1.8	28
64	Hdac4 Interactions in Huntington's Disease Viewed Through the Prism of Multiomics. <i>Molecular and Cellular Proteomics</i> , 2019, 18, S92-S113.	2.5	28
65	YfmK is an N <sup>ε</sup> -lysine acetyltransferase that directly acetylates the histone-like protein HBSu in <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3752-3757.	3.3	28
66	Mechanical Stress Regulates Epithelial Tissue Integrity and Stiffness through the FGFR/Erk2 Signaling Pathway during Embryogenesis. <i>Cell Reports</i> , 2020, 30, 3875-3888.e3.	2.9	28
67	Systematic profiling of protein complex dynamics reveals DNA-PK phosphorylation of IFI16 en route to herpesvirus immunity. <i>Science Advances</i> , 2021, 7, .	4.7	28
68	Human Antiviral Protein IFIX Suppresses Viral Gene Expression during Herpes Simplex Virus 1 (HSV-1) Infection and Is Counteracted by Virus-induced Proteasomal Degradation. <i>Molecular and Cellular Proteomics</i> , 2017, 16, S200-S214.	2.5	27
69	Stimulatory effects of advanced glycation endproducts (AGEs) on fibronectin matrix assembly. <i>Matrix Biology</i> , 2017, 59, 39-53.	1.5	27
70	Charge-Mediated Pyrin Oligomerization Nucleates Antiviral IFI16 Sensing of Herpesvirus DNA. <i>MBio</i> , 2019, 10, .	1.8	25
71	Formation of a TBX20-CASZ1 protein complex is protective against dilated cardiomyopathy and critical for cardiac homeostasis. <i>PLoS Genetics</i> , 2017, 13, e1007011.	1.5	24
72	Initiating Events in Direct Cardiomyocyte Reprogramming. <i>Cell Reports</i> , 2018, 22, 1913-1922.	2.9	23

#	ARTICLE	IF	CITATIONS
73	Human Sirtuin 2 Localization, Transient Interactions, and Impact on the Proteome Point to Its Role in Intracellular Trafficking. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3107-3125.	2.5	22
74	DNA methyltransferase DNMT3A associates with viral proteins and impacts HSV-1 infection. <i>Proteomics</i> , 2015, 15, 1968-1982.	1.3	21
75	Mitochondria and Peroxisome Remodeling across Cytomegalovirus Infection Time Viewed through the Lens of Inter-ViSTA. <i>Cell Reports</i> , 2020, 32, 107943.	2.9	21
76	The antiviral sirtuin 3 bridges protein acetylation to mitochondrial integrity and metabolism during human cytomegalovirus infection. <i>PLoS Pathogens</i> , 2021, 17, e1009506.	2.1	20
77	TRANSPiRE: A Computational Pipeline to Elucidate Intracellular Protein Movements from Spatial Proteomics Data Sets. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1422-1439.	1.2	19
78	RNA decay during gammaherpesvirus infection reduces RNA polymerase II occupancy of host promoters but spares viral promoters. <i>PLoS Pathogens</i> , 2020, 16, e1008269.	2.1	19
79	Protein interactions and consensus clustering analysis uncover insights into herpesvirus virion structure and function relationships. <i>PLoS Biology</i> , 2019, 17, e3000316.	2.6	18
80	Mechanical Force Induces Phosphorylation-Mediated Signaling that Underlies Tissue Response and Robustness in <i>Xenopus</i> Embryos. <i>Cell Systems</i> , 2019, 8, 226-241.e7.	2.9	18
81	Lamin B1 acetylation slows the G1 to S cell cycle transition through inhibition of DNA repair. <i>Nucleic Acids Research</i> , 2021, 49, 2044-2064.	6.5	16
82	Lamin post-translational modifications: emerging toggles of nuclear organization and function. <i>Trends in Biochemical Sciences</i> , 2021, 46, 832-847.	3.7	16
83	The interferon-inducible GTPase MxB promotes capsid disassembly and genome release of herpesviruses. <i>ELife</i> , 2022, 11, .	2.8	16
84	The human cytomegalovirus protein pUL13 targets mitochondrial cristae architecture to increase cellular respiration during infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
85	Dynamics of huntingtin protein interactions in the striatum identifies candidate modifiers of Huntington disease. <i>Cell Systems</i> , 2022, 13, 304-320.e5.	2.9	15
86	CHD4 is recruited by GATA4 and NKX2-5 to repress noncardiac gene programs in the developing heart. <i>Genes and Development</i> , 2022, 36, 468-482.	2.7	15
87	The Proteomic Profile of Deleted in Breast Cancer 1 (DBC1) Interactions Points to a Multifaceted Regulation of Gene Expression. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 791-809.	2.5	14
88	Virus-host protein interactions as footprints of human cytomegalovirus replication. <i>Current Opinion in Virology</i> , 2022, 52, 135-147.	2.6	14
89	Nuclear antiviral innate responses at the intersection of DNA sensing and DNA repair. <i>Trends in Microbiology</i> , 2022, 30, 1056-1071.	3.5	14
90	Methods for characterizing protein acetylation during viral infection. <i>Methods in Enzymology</i> , 2019, 626, 587-620.	0.4	12

#	ARTICLE	IF	CITATIONS
91	Post-translational modification control of viral DNA sensors and innate immune signaling. <i>Advances in Virus Research</i> , 2021, 109, 163-199.	0.9	12
92	Identification of Sirtuin4 (SIRT4) Protein Interactions: Uncovering Candidate Acyl-Modified Mitochondrial Substrates and Enzymatic Regulators. <i>Methods in Molecular Biology</i> , 2016, 1436, 213-239.	0.4	11
93	Blowing Off Steam: Virus Inhibition of cGAS DNA Sensing. <i>Cell Host and Microbe</i> , 2015, 18, 270-272.	5.1	10
94	Determining the Composition and Stability of Protein Complexes Using an Integrated Label-Free and Stable Isotope Labeling Strategy. <i>Methods in Molecular Biology</i> , 2016, 1410, 39-63.	0.4	10
95	The Biochemical Evolution of Protein Complexes. <i>Trends in Biochemical Sciences</i> , 2016, 41, 4-6.	3.7	8
96	Proteomic Technologies for Deciphering Local and Global Protein Interactions. <i>Trends in Biochemical Sciences</i> , 2020, 45, 454-455.	3.7	8
97	The DNA Sensor IFIX Drives Proteome Alterations To Mobilize Nuclear and Cytoplasmic Antiviral Responses, with Its Acetylation Acting as a Localization Toggle. <i>MSystems</i> , 2021, 6, e0039721.	1.7	8
98	Interrogating Host Antiviral Environments Driven by Nuclear DNA Sensing: A Multiomic Perspective. <i>Biomolecules</i> , 2020, 10, 1591.	1.8	7
99	Host Innate Immune Response and Viral Immune Evasion During Alphaherpesvirus Infection. <i>Current Issues in Molecular Biology</i> , 2022, 42, 635-686.	1.0	7
100	A Proteomics Perspective on Viral DNA Sensors in Host Defense and Viral Immune Evasion Mechanisms. <i>Journal of Molecular Biology</i> , 2015, 427, 1995-2012.	2.0	6
101	Editorial overview: Untangling proteome organization in space and time. <i>Current Opinion in Chemical Biology</i> , 2019, 48, A1-A4.	2.8	6
102	Contribution of Mass Spectrometry-Based Proteomics to Discoveries in Developmental Biology. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1140, 143-154.	0.8	5
103	Considerations for Identifying Endogenous Protein Complexes from Tissue via Immunoaffinity Purification and Quantitative Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2019, 1977, 115-143.	0.4	5
104	The Nuclear DNA Sensor IFI16 Indiscriminately Binds to and Diminishes Accessibility of the HSV-1 Genome to Suppress Infection. <i>MSystems</i> , 2022, 7, e0019822.	1.7	5
105	The axonal sorting activity of pseudorabies virus Us9 protein depends on the state of neuronal maturation. <i>PLoS Pathogens</i> , 2020, 16, e1008861.	2.1	4
106	A TRUSTED targeted mass spectrometry assay for pan-herpesvirus protein detection. <i>Cell Reports</i> , 2022, 39, 110810.	2.9	4
107	Approaches for Studying the Subcellular Localization, Interactions, and Regulation of Histone Deacetylase 5 (HDAC5). <i>Methods in Molecular Biology</i> , 2016, 1436, 47-84.	0.4	3
108	The Host-Pathogen Ecosystem Viewed Through the Prism of Proteomics. <i>Molecular and Cellular Proteomics</i> , 2017, 16, S1-S4.	2.5	1

#	ARTICLE	IF	CITATIONS
109	Workflows and considerations for investigating protein interactions of viral DNA sensors. Methods in Enzymology, 2019, 625, 309-338.	0.4	0