

# Dominic Esposito

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7174963/publications.pdf>

Version: 2024-02-01

95  
papers

5,705  
citations

109321

35  
h-index

88630

70  
g-index

115  
all docs

115  
docs citations

115  
times ranked

10402  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dragging Ras Back in the Ring. <i>Cancer Cell</i> , 2014, 25, 272-281.	16.8	707
2	Enhancement of soluble protein expression through the use of fusion tags. <i>Current Opinion in Biotechnology</i> , 2006, 17, 353-358.	6.6	485
3	Folliculin encoded by the <i>BHD</i> gene interacts with a binding protein, FNIP1, and AMPK, and is involved in AMPK and mTOR signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15552-15557.	7.1	427
4	Human ORFeome Version 1.1: A Platform for Reverse Proteomics. <i>Genome Research</i> , 2004, 14, 2128-2135.	5.5	208
5	Long-range enhancers on 8q24 regulate c-Myc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 3001-3005.	7.1	207
6	MicroRNA-1 is a candidate tumor suppressor and prognostic marker in human prostate cancer. <i>Nucleic Acids Research</i> , 2012, 40, 3689-3703.	14.5	165
7	Structural basis of recognition of farnesylated and methylated KRAS4b by PDE1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6766-E6775.	7.1	145
8	Serologic Cross-Reactivity of SARS-CoV-2 with Endemic and Seasonal Betacoronaviruses. <i>Journal of Clinical Immunology</i> , 2021, 41, 906-913.	3.8	133
9	Atypical KRASG12R Mutant Is Impaired in PI3K Signaling and Macropinocytosis in Pancreatic Cancer. <i>Cancer Discovery</i> , 2020, 10, 104-123.	9.4	131
10	The completion of the Mammalian Gene Collection (MGC). <i>Genome Research</i> , 2009, 19, 2324-2333.	5.5	125
11	Standardization of ELISA protocols for serosurveys of the SARS-CoV-2 pandemic using clinical and at-home blood sampling. <i>Nature Communications</i> , 2021, 12, 113.	12.8	115
12	A novel cell-free protein synthesis system. <i>Journal of Biotechnology</i> , 2004, 110, 257-263.	3.8	113
13	A Flexible Reporter System for Direct Observation and Isolation of Cancer Stem Cells. <i>Stem Cell Reports</i> , 2015, 4, 155-169.	4.8	110
14	KRAS interaction with RAF1 RAS-binding domain and cysteine-rich domain provides insights into RAS-mediated RAF activation. <i>Nature Communications</i> , 2021, 12, 1176.	12.8	107
15	Undiagnosed SARS-CoV-2 seropositivity during the first 6 months of the COVID-19 pandemic in the United States. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	106
16	Cardiac glycosides inhibit TNF- $\alpha$ /NF- $\kappa$ B signaling by blocking recruitment of TNF receptor-associated death domain to the TNF receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9631-9636.	7.1	90
17	Optimizing high-yield production of SARS-CoV-2 soluble spike trimers for serology assays. <i>Protein Expression and Purification</i> , 2020, 174, 105686.	1.3	84
18	Filovirus-Like Particles Produced in Insect Cells: Immunogenicity and Protection in Rodents. <i>Journal of Infectious Diseases</i> , 2007, 196, S421-S429.	4.0	79

#	ARTICLE	IF	CITATIONS
19	A rapid method for titrating baculovirus stocks using the Sf-9 Easy Titer cell line. <i>BioTechniques</i> , 2009, 47, 785-788.	1.8	79
20	Distinct Binding Preferences between Ras and Raf Family Members and the Impact on Oncogenic Ras Signaling. <i>Molecular Cell</i> , 2019, 76, 872-884.e5.	9.7	76
21	Farnesylated and methylated KRAS4b: high yield production of protein suitable for biophysical studies of prenylated protein-lipid interactions. <i>Scientific Reports</i> , 2015, 5, 15916.	3.3	65
22	The Complete Nucleotide Sequence of Bacteriophage HP1 DNA. <i>Nucleic Acids Research</i> , 1996, 24, 2360-2368.	14.5	63
23	Transcription signatures encoded by ultraconserved genomic regions in human prostate cancer. <i>Molecular Cancer</i> , 2013, 12, 13.	19.2	63
24	Enhanced soluble protein expression using two new fusion tags. <i>Protein Expression and Purification</i> , 2006, 46, 122-129.	1.3	62
25	Detection of antibodies to Kaposi's sarcoma-associated herpesvirus: A new approach using K8.1 ELISA and a newly developed recombinant LANA ELISA. <i>Journal of Immunological Methods</i> , 2010, 356, 39-46.	1.4	61
26	The UBIAD1 Prenyltransferase Links Menaquinone-4 Synthesis to Cholesterol Metabolic Enzymes. <i>Human Mutation</i> , 2013, 34, 317-329.	2.5	60
27	Heterogeneity and Breadth of Host Antibody Response to KSHV Infection Demonstrated by Systematic Analysis of the KSHV Proteome. <i>PLoS Pathogens</i> , 2014, 10, e1004046.	4.7	57
28	Live tumor imaging shows macrophage induction and TMEM-mediated enrichment of cancer stem cells during metastatic dissemination. <i>Nature Communications</i> , 2021, 12, 7300.	12.8	53
29	BRD4 Short Isoform Interacts with RRP1B, SIPA1 and Components of the LINC Complex at the Inner Face of the Nuclear Membrane. <i>PLoS ONE</i> , 2013, 8, e80746.	2.5	51
30	Structures of N-terminally processed KRAS provide insight into the role of N-acetylation. <i>Scientific Reports</i> , 2019, 9, 10512.	3.3	47
31	The small molecule BI-2852 induces a nonfunctional dimer of KRAS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 3363-3364.	7.1	46
32	Lentivirus-mediated bifunctional cell labeling for in vivo melanoma study. <i>Pigment Cell and Melanoma Research</i> , 2009, 22, 283-295.	3.3	44
33	Optimizing Expression and Solubility of Proteins in <i>E. coli</i> Using Modified Media and Induction Parameters. <i>Methods in Molecular Biology</i> , 2017, 1586, 65-82.	0.9	43
34	Gateway Cloning for Protein Expression. <i>Methods in Molecular Biology</i> , 2009, 498, 31-54.	0.9	41
35	Structural Insights into the SPRED1-Neurofibromin-KRAS Complex and Disruption of SPRED1-Neurofibromin Interaction by Oncogenic EGFR. <i>Cell Reports</i> , 2020, 32, 107909.	6.4	41
36	Advancing <sc>RAS/RASopathy</sc> therapies: An NCI-sponsored intramural and extramural collaboration for the study of <sc>RASopathies</sc>. <i>American Journal of Medical Genetics, Part A</i> , 2020, 182, 866-876.	1.2	40

#	ARTICLE	IF	CITATIONS
37	Functional Characterization of Filamin A Interacting Protein 1â€“Like, a Novel Candidate for Antivascular Cancer Therapy. <i>Cancer Research</i> , 2008, 68, 7332-7341.	0.9	39
38	A majority of uninfected adults show preexisting antibody reactivity against SARS-CoV-2. <i>JCI Insight</i> , 2021, 6, .	5.0	39
39	Quantitative biophysical analysis defines key components modulating recruitment of the GTPase KRAS to the plasma membrane. <i>Journal of Biological Chemistry</i> , 2019, 294, 2193-2207.	3.4	38
40	Uncovering a membrane-distal conformation of KRAS available to recruit RAF to the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24258-24268.	7.1	34
41	Severe Acute Respiratory Syndrome Coronavirus 2 Seroassay Performance and Optimization in a Population With High Background Reactivity in Mali. <i>Journal of Infectious Diseases</i> , 2021, 224, 2001-2009.	4.0	34
42	mRNA vaccine-induced antibodies more effective than natural immunity in neutralizing SARS-CoV-2 and its high affinity variants. <i>Scientific Reports</i> , 2022, 12, 2628.	3.3	34
43	Secretoglobin 3A2 Suppresses Bleomycin-induced Pulmonary Fibrosis by Transforming Growth Factor Î² Signaling Down-regulation. <i>Journal of Biological Chemistry</i> , 2011, 286, 19682-19692.	3.4	31
44	Rapidly Increasing Severe Acute Respiratory Syndrome Coronavirus 2 Seroprevalence and Limited Clinical Disease in 3 Malian Communities: A Prospective Cohort Study. <i>Clinical Infectious Diseases</i> , 2022, 74, 1030-1038.	5.8	30
45	Identification of an HP1 phage protein required for site-specific excision. <i>Molecular Microbiology</i> , 1994, 13, 685-695.	2.5	25
46	Reciprocal Regulation of the Early Promoter Region of Bacteriophage HP1 by the Cox and CI Proteins. <i>Virology</i> , 1997, 234, 267-276.	2.4	25
47	Biochemical and structural analyses reveal that the tumor suppressor neurofibromin (NF1) forms a high-affinity dimer. <i>Journal of Biological Chemistry</i> , 2020, 295, 1105-1119.	3.4	25
48	Improved production of SARS-CoV-2 spike receptor-binding domain (RBD) for serology assays. <i>Protein Expression and Purification</i> , 2021, 179, 105802.	1.3	25
49	Combinatorial Assembly of Clone Libraries Using Site-Specific Recombination. <i>Methods in Molecular Biology</i> , 2014, 1116, 193-208.	0.9	25
50	Biochemical and structural analyses reveal that the tumor suppressor neurofibromin (NF1) forms a high-affinity dimer. <i>Journal of Biological Chemistry</i> , 2020, 295, 1105-1119.	3.4	25
51	Evaluation of macrocyclic Grb2 SH2 domain-binding peptide mimetics prepared by ring-closing metathesis of C-terminal allylglycines with an N-terminal Î²-vinyl-substituted phosphotyrosyl mimetic. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 2431-2438.	3.0	24
52	Membrane interactions of the globular domain and the hypervariable region of KRAS4b define its unique diffusion behavior. <i>ELife</i> , 2020, 9, .	6.0	23
53	The Escherichia coli Fis Protein Stimulates Bacteriophage Î» Integrative Recombination In Vitro. <i>Journal of Bacteriology</i> , 2003, 185, 3076-3080.	2.2	22
54	Improved recombinational stability of lentiviral expression vectors using reduced-genome Escherichia coli. <i>BioTechniques</i> , 2007, 43, 466-470.	1.8	22

#	ARTICLE	IF	CITATIONS
55	Engineering the transposition-based baculovirus expression vector system for higher efficiency protein production from insect cells. <i>Journal of Biotechnology</i> , 2016, 238, 1-8.	3.8	22
56	Protein and DNA requirements of the bacteriophage HP1 recombination system: a model for intasome formation. <i>Nucleic Acids Research</i> , 2001, 29, 3955-3964.	14.5	21
57	Purify First: Rapid expression and purification of proteins from XMRV. <i>Protein Expression and Purification</i> , 2011, 76, 238-247.	1.3	21
58	Effect of a Smac Mimetic (TL32711, Birinapant) on the Apoptotic Program and Apoptosis Biomarkers Examined with Validated Multiplex Immunoassays Fit for Clinical Use. <i>Clinical Cancer Research</i> , 2016, 22, 1000-1010.	7.0	21
59	Feasibility of using NF1-GRD and AAV for gene replacement therapy in NF1-associated tumors. <i>Gene Therapy</i> , 2019, 26, 277-286.	4.5	21
60	RAS interaction with Sin1 is dispensable for mTORC2 assembly and activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
61	Esophageal squamous cell carcinoma transcriptome reveals the effect of FOXM1 on patient outcome through novel PIK3R3 mediated activation of PI3K signaling pathway. <i>Oncotarget</i> , 2018, 9, 16634-16647.	1.8	21
62	Binding Characteristics of IFN- $\beta$ Subvariants to IFNAR2-EC and Influence of the 6-Histidine Tag. <i>Journal of Interferon and Cytokine Research</i> , 2006, 26, 866-876.	1.2	20
63	Dromedary camel nanobodies broadly neutralize SARS-CoV-2 variants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2201433119.	7.1	19
64	Purification and Characterization of HP1 Cox and Definition of Its Role in Controlling the Direction of Site-specific Recombination. <i>Journal of Biological Chemistry</i> , 1997, 272, 8660-8670.	3.4	18
65	Coexpression of ABCB1 and ABCG2 in a Cell Line Model Reveals Both Independent and Additive Transporter Function. <i>Drug Metabolism and Disposition</i> , 2019, 47, 715-723.	3.3	17
66	Effect of D614G Spike Variant on Immunoglobulin G, M, or A Spike Seroassay Performance. <i>Journal of Infectious Diseases</i> , 2021, 223, 802-804.	4.0	17
67	Genome Assembly and Annotation of the <i>Trichoplusia ni</i> Tni-FNL Insect Cell Line Enabled by Long-Read Technologies. <i>Genes</i> , 2019, 10, 79.	2.4	16
68	A set of aspartyl protease-deficient strains for improved expression of heterologous proteins in <i>Kluyveromyces lactis</i> . <i>FEMS Yeast Research</i> , 2011, 11, 168-178.	2.3	15
69	Clinical manufacturing of recombinant human interleukin 15. I. Production cell line development and protein expression in <i>E. coli</i> with stop codon optimization. <i>Biotechnology Progress</i> , 2012, 28, 497-507.	2.6	15
70	Characterization of Recombinant Human IL-15 Deamidation and Its Practical Elimination through Substitution of Asparagine 77. <i>Pharmaceutical Research</i> , 2012, 29, 722-738.	3.5	15
71	Widening the bottleneck: Increasing success in protein expression and purification. <i>Journal of Structural Biology</i> , 2010, 172, 14-20.	2.8	14
72	Optimizing Transient Recombinant Protein Expression in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2012, 801, 251-268.	0.9	14

#	ARTICLE	IF	CITATIONS
73	Insights into the Cross Talk between Effector and Allosteric Lobes of KRAS from Methyl Conformational Dynamics. <i>Journal of the American Chemical Society</i> , 2022, 144, 4196-4205.	13.7	14
74	A software package to streamline the titrimetric determination of lipase activity. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1995, 72, 1405-1406.	1.9	13
75	Mutant IL-7R $\alpha$ and mutant NRAs are sufficient to induce murine T cell acute lymphoblastic leukemia. <i>Leukemia</i> , 2018, 32, 1795-1882.	7.2	13
76	A review of alternative promoters for optimal recombinant protein expression in baculovirus-infected insect cells. <i>Protein Expression and Purification</i> , 2021, 186, 105924.	1.3	13
77	Towards Quantitative and Standardized Serological and Neutralization Assays for COVID-19. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2723.	4.1	12
78	Blocking oligonucleotides improve sequencing through inverted repeats. <i>BioTechniques</i> , 2003, 35, 914-920.	1.8	11
79	Relocation of the attTn7 Transgene Insertion Site in Bacmid DNA Enhances Baculovirus Genome Stability and Recombinant Protein Expression in Insect Cells. <i>Viruses</i> , 2020, 12, 1448.	3.3	11
80	Pooled ORF Expression Technology (POET). <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1647-1652.	3.8	10
81	New weapons to penetrate the armor: Novel reagents and assays developed at the NCI RAS Initiative to enable discovery of RAS therapeutics. <i>Seminars in Cancer Biology</i> , 2019, 54, 174-182.	9.6	9
82	Gateway cloning is compatible with protein secretion from <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2005, 40, 424-428.	1.3	8
83	Classical RAS proteins are not essential for paradoxical ERK activation induced by RAF inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	8
84	Identification of highly expressed, soluble proteins using an improved, high-throughput pooled ORF expression technology. <i>BioTechniques</i> , 2008, 45, 307-315.	1.8	7
85	Production of Farnesylated and Methylated Proteins in an Engineered Insect Cell System. <i>Methods in Molecular Biology</i> , 2019, 2009, 259-277.	0.9	6
86	Identification of a Cryptic Bacterial Promoter in Mouse ( <i>mdr1a</i> ) P-Glycoprotein cDNA. <i>PLoS ONE</i> , 2015, 10, e0136396.	2.5	5
87	Polycistronic baculovirus expression of SUGT1 enables high-yield production of recombinant leucine-rich repeat proteins and protein complexes. <i>Protein Expression and Purification</i> , 2022, 193, 106061.	1.3	5
88	Purification, crystallization and preliminary X-ray diffraction of human S100A15. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 467-470.	0.7	4
89	Mammalian cell transient expression, non-affinity purification, and characterization of human recombinant IGFBP7, an IGF-1 targeting therapeutic protein. <i>International Immunopharmacology</i> , 2015, 29, 476-487.	3.8	4
90	Refining the N-Termini of the SARS-CoV-2 Spike Protein and Its Discrete Receptor-Binding Domain. <i>Journal of Proteome Research</i> , 2021, 20, 4427-4434.	3.7	4

#	ARTICLE	IF	CITATIONS
91	Isoform- and Phosphorylation-specific Multiplexed Quantitative Pharmacodynamics of Drugs Targeting PI3K and MAPK Signaling in Xenograft Models and Clinical Biopsies. <i>Molecular Cancer Therapeutics</i> , 2021, 20, 749-760.	4.1	3
92	Material strategies and considerations for serologic testing of global infectious diseases. <i>MRS Bulletin</i> , 2021, , 1-5.	3.5	3
93	SARS-CoV-2 Seroassay Optimization and Performance in a Population with High Background Reactivity in Mali. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
94	NMR 1H, 13C, 15N backbone resonance assignments of the T35S and oncogenic T35S/Q61L mutants of human KRAS4b in the active, GppNHp-bound conformation. <i>Biomolecular NMR Assignments</i> , 2022, 16, 1-8.	0.8	1
95	Production of authentic geranylgeranylated KRAS4b using an engineered baculovirus system. <i>Protein Expression and Purification</i> , 2018, 151, 99-105.	1.3	0