Sergi Padilla-Parra

List of Publications by Year
in descending order

57 papers	1,847 citations	304368 22 h-index	288905 40 g-index
70 all docs	70 docs citations	70 times ranked	3292 citing authors

#	Article	IF	Citations
1	Toremifene interacts with and destabilizes the Ebola virus glycoprotein. Nature, 2016, 535, 169-172.	13.7	210
2	FRET microscopy in the living cell: Different approaches, strengths and weaknesses. BioEssays, 2012, 34, 369-376.	1.2	138
3	An essential role for the Zn2+ transporter ZIP7 in B cell development. Nature Immunology, 2019, 20, 350-361.	7.0	92
4	Structural Basis for Plexin Activation and Regulation. Neuron, 2016, 91, 548-560.	3.8	89
5	Quantitative FRET Analysis by Fast Acquisition Time Domain FLIM at High Spatial Resolution in Living Cells. Biophysical Journal, 2008, 95, 2976-2988.	0.2	84
6	Quantitative Comparison of Different Fluorescent Protein Couples for Fast FRET-FLIM Acquisition. Biophysical Journal, 2009, 97, 2368-2376.	0.2	78
7	Lysosome sorting of Î²-glucocerebrosidase by LIMP-2 is targeted by the mannose 6-phosphate receptor. Nature Communications, 2014, 5, 4321.	5.8	78
8	Repulsive guidance molecule is a structural bridge between neogenin and bone morphogenetic protein. Nature Structural and Molecular Biology, 2015, 22, 458-465.	3.6	78
9	Multifaceted Mechanisms of HIV-1 Entry Inhibition by Human Î±-Defensin. Journal of Biological Chemistry, 2012, 287, 28821-28838.	1.6	74
10	Astrocytes Resist HIV-1 Fusion but Engulf Infected Macrophage Material. Cell Reports, 2017, 18, 1473-1483.	2.9	73
11	Dynamic Interaction of Amphiphysin with N-WASP Regulates Actin Assembly. Journal of Biological Chemistry, 2009, 284, 34244-34256.	1.6	65
12	Quantitative imaging of endosome acidification and single retrovirus fusion with distinct pools of early endosomes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17627-17632.	3.3	63
13	Fusion of Mature HIV-1 Particles Leads to Complete Release of a Gag-GFP-Based Content Marker and Raises the Intraviral pH. PLoS ONE, 2013, 8, e71002.	1.1	49
14	Homology-guided identification of a conserved motif linking the antiviral functions of IFITM3 to its oligomeric state. ELife, 2020, 9, .	2.8	49
15	Multiplexing PKA and ERK1&2 kinases FRET biosensors in living cells using single excitation wavelength dual colour FLIM. Scientific Reports, 2017, 7, 41026.	1.6	43
16	Orthogonal fluorescent chemogenetic reporters for multicolor imaging. Nature Chemical Biology, 2021, 17, 30-38.	3.9	43
17	827Spatio-Temporal Quantification of FRET in Living Cells by Fast Time-Domain FLIM: A Comparative Study of Non-Fitting Methods. PLoS ONE, 2013, 8, e69335.	1.1	41
18	A dynamic three-step mechanism drives the HIV-1 pre-fusion reaction. Nature Structural and Molecular Biology, 2018, 25, 814-822.	3.6	39

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19	Structure-Based in Silico Screening Identifies a Potent Ebolavirus Inhibitor from a Traditional Chinese Medicine Library. Journal of Medicinal Chemistry, 2019, 62, 2928-2937.	2.9	34
20	The Î²-Lactamase Assay: Harnessing a FRET Biosensor to Analyse Viral Fusion Mechanisms. Sensors, 2016, 16, 950.	2.1	32
21	Glycolysis downregulation is a hallmark of HIVâ€1 latency and sensitizes infected cells to oxidative stress. EMBO Molecular Medicine, 2021, 13, e13901.	3.3	30
22	Dualâ€color fluorescence lifetime correlation spectroscopy to quantify proteinâ€“protein interactions in live cell. Microscopy Research and Technique, 2011, 74, 788-793.	1.2	28
23	Single-cell glycolytic activity regulates membrane tension and HIV-1 fusion. PLoS Pathogens, 2020, 16, e1008359.	2.1	28
24	Dynamin-2 Stabilizes the HIV-1 Fusion Pore with a Low Oligomeric State. Cell Reports, 2017, 18, 443-453.	2.9	27
25	Non fitting based FRETâ€“FLIM analysis approaches applied to quantify proteinâ€“protein interactions in live cells. Biophysical Reviews, 2011, 3, 63-70.	1.5	26
26	Synchronized Retrovirus Fusion in Cells Expressing Alternative Receptor Isoforms Releases the Viral Core into Distinct Sub-cellular Compartments. PLoS Pathogens, 2012, 8, e1002694.	2.1	24
27	The nature and nurture of cell heterogeneity: accounting for macrophage gene-environment interactions with single-cell RNA-Seq. BMC Genomics, 2017, 18, 53.	1.2	24
28	nandbâ€”number and brightness in R with a novel automatic detrending algorithm. Bioinformatics, 2017, 33, 3508-3510.	1.8	21
29	On the Whereabouts of HIV-1 Cellular Entry and Its Fusion Ports. Trends in Molecular Medicine, 2017, 23, 932-944.	3.5	20
30	Imaging real-time HIV-1 virion fusion with FRET-based biosensors. Scientific Reports, 2015, 5, 13449.	1.6	17
31	Structural basis of semaphorinâ€plexin cis interaction. EMBO Journal, 2020, 39, e102926.	3.5	17
32	Pinpointing retrovirus entry sites in cells expressing alternatively spliced receptor isoforms by single virus imaging. Retrovirology, 2014, 11, 47.	0.9	16
33	Detecting protein aggregation and interaction in live cells: A guide to number and brightness. Methods, 2018, 140-141, 172-177.	1.9	16
34	Time-Domain Fluorescence Lifetime Imaging Microscopy: A Quantitative Method to Follow Transient Proteinâ€“Protein Interactions in Living Cells. Cold Spring Harbor Protocols, 2015, 2015, pdb.top086249.	0.2	14
35	Actomyosin-generated tension on cadherin is similar between dividing and non-dividing epithelial cells in early Xenopus laevis embryos. Scientific Reports, 2017, 7, 45058.	1.6	12
36	Chromatin condensation fluctuations rather than steady-state predict chromatin accessibility. Nucleic Acids Research, 2019, 47, 6184-6194.	6.5	12

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37	Improved cellular uptake of perfluorocarbon nanoparticles for in vivo murine cardiac 19F MRS/MRI and temporal tracking of progenitor cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 18, 391-401.	1.7	9
38	Quantitative Study of Proteinâ€“Protein Interactions in Live Cell by Dual-Color Fluorescence Correlation Spectroscopy. Methods in Molecular Biology, 2014, 1076, 683-698.	0.4	8
39	Quantitative FRET-FLIM-BlaM to Assess the Extent of HIV-1 Fusion in Live Cells. Viruses, 2020, 12, 206.	1.5	7
40	ijtiff: An R package providing TIFF I/O for ImageJ users. Journal of Open Source Software, 2018, 3, 633.	2.0	5
41	Structure dynamics of HIV-1 Env trimers on native virions engaged with living T cells. Communications Biology, 2021, 4, 1228.	2.0	4
42	Actin Dynamics and HIV-1 Entry. Trends in Molecular Medicine, 2016, 22, 354-356.	3.5	3
43	Calibration-free In Vitro Quantification of Protein Homo-oligomerization Using Commercial Instrumentation and Free, Open Source Brightness Analysis Software. Journal of Visualized Experiments, 2018, , .	0.2	2
44	Drosophila OTK Is a Glycosaminoglycan-Binding Protein with High Conformational Flexibility. Structure, 2020, 28, 507-515.e5.	1.6	2
45	filesstrings: An R package for file and string manipulation. Journal of Open Source Software, 2017, 2, 260.	2.0	2
46	exampletestrâ€”An easy start to unit testing R packages. Wellcome Open Research, 2017, 2, 31.	0.9	2
47	Detrending: How to Correct Images for Bleaching. Biophysical Journal, 2018, 114, 345a.	0.2	1
48	Multiplexing PKA and ERK1&2 kinases FRET biosensors in living cells using single excitation wavelength dual colour FLIM. , 0, .		1
49	Well-Characterised Time-Gated Detector Photon Flux Resolves the Ultrastructure of DNA-Damage Nuclear Bodies with G-STED Nanoscopy. Biophysical Journal, 2017, 112, 141a.	0.2	0
50	Endogenous Labeling for Light Microscopy during HIV-1 Immune Responses. Trends in Immunology, 2020, 41, 1056-1059.	2.9	0
51	Advanced Light and Correlative Microscopy in Virology. , 2021, , 208-217.		0
52	Easier unit tests and better examples with exampletestr and covr. Wellcome Open Research, 0, 2, 31.	0.9	0
53	Single-cell glycolytic activity regulates membrane tension and HIV-1 fusion. , 2020, 16, e1008359.		0
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