Claudia Bagni

List of Publications by Citations

78 papers	5,031 citations	38 h-index	70 g-index
92 ext. papers	5,904 ext. citations	12.3 avg, IF	5.64 L-index

#	Paper	IF	Citations
78	The fragile X syndrome protein FMRP associates with BC1 RNA and regulates the translation of specific mRNAs at synapses. *Cell*, **2003**, 112, 317-27	56.2	553
77	The fragile X syndrome protein represses activity-dependent translation through CYFIP1, a new 4E-BP. *Cell*, **2008**, 134, 1042-54	56.2	442
76	From mRNP trafficking to spine dysmorphogenesis: the roots of fragile X syndrome. *Nature Reviews Neuroscience*, **2005**, 6, 376-87	13.5	386
75	A new function for the fragile X mental retardation protein in regulation of PSD-95 mRNA stability. *Nature Neuroscience*, **2007**, 10, 578-87	25.5	289
74	Enriched environment promotes behavioral and morphological recovery in a mouse model for the fragile X syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 11557-62	11.5	231
73	Fragile X syndrome: causes, diagnosis, mechanisms, and therapeutics. *Journal of Clinical Investigation*, **2012**, 122, 4314-22	15.9	203
72	CYFIP1 coordinates mRNA translation and cytoskeleton remodeling to ensure proper dendritic spine formation. *Neuron*, **2013**, 79, 1169-82	13.9	181
71	Abnormal striatal GABA transmission in the mouse model for the fragile X syndrome. *Biological Psychiatry*, **2008**, 63, 963-73	7.9	132
70	mRNPs, polysomes or granules: FMRP in neuronal protein synthesis. *Current Opinion in Neurobiology*, **2006**, 16, 265-9	7.6	112
69	Fragile X mental retardation protein (FMRP) binds specifically to the brain cytoplasmic RNAs BC1/BC200 via a novel RNA-binding motif. *Journal of Biological Chemistry*, **2005**, 280, 33403-10	5.4	108
68	A Synaptic Perspective of Fragile X Syndrome and Autism Spectrum Disorders. *Neuron*, **2019**, 101, 1070-1088	13.9	102
67	Fragile X mental retardation protein control of neuronal mRNA metabolism: Insights into mRNA stability. *Molecular and Cellular Neurosciences*, **2010**, 43, 43-50	4.8	96
66	Two-stage translational control of dentate gyrus LTP consolidation is mediated by sustained BDNF-TrkB signaling to MNK. *Cell Reports*, **2014**, 9, 1430-45	10.6	95
65	The fragile X mental retardation protein-RNP granules show an mGluR-dependent localization in the post-synaptic spines. *Molecular and Cellular Neurosciences*, **2007**, 34, 343-54	4.8	93
64	FMRP regulates multipolar to bipolar transition affecting neuronal migration and cortical circuitry. *Nature Neuroscience*, **2014**, 17, 1693-700	25.5	90
63	Nuclear accumulation of mRNAs underlies G4C2-repeat-induced translational repression in a cellular model of C9orf72 ALS. *Journal of Cell Science*, **2015**, 128, 1787-99	5.3	85
62	Abnormal mGlu 5 receptor/endocannabinoid coupling in mice lacking FMRP and BC1 RNA. *Neuropsychopharmacology*, **2010**, 35, 1500-9	8.7	84

61	The FMRP regulon: from targets to disease convergence. *Frontiers in Neuroscience*, **2013**, 7, 191	5.1	82
60	The Fragile X mental retardation protein regulates matrix metalloproteinase 9 mRNA at synapses. *Journal of Neuroscience*, **2013**, 33, 18234-41	6.6	80
59	The fragile X protein binds mRNAs involved in cancer progression and modulates metastasis formation. *EMBO Molecular Medicine*, **2013**, 5, 1523-36	12	78
58	Cognitive Dysfunctions in Intellectual Disabilities: The Contributions of the Ras-MAPK and PI3K-AKT-mTOR Pathways. *Annual Review of Genomics and Human Genetics*, **2017**, 18, 115-142	9.7	75
57	Fragile X syndrome: From protein function to therapy. *American Journal of Medical Genetics, Part A*, **2013**, 161A, 2809-21	2.5	72
56	Mitochondrial dysfunction in Autism Spectrum Disorder: clinical features and perspectives. *Current Opinion in Neurobiology*, **2017**, 45, 178-187	7.6	67
55	Dissecting FMR1, the protein responsible for fragile X syndrome, in its structural and functional domains. *Rna*, **1999**, 5, 1248-58	5.8	65
54	Learning and behavioral deficits associated with the absence of the fragile X mental retardation protein: what a fly and mouse model can teach us. *Learning and Memory*, **2014**, 21, 543-55	2.8	60
53	Regulation of molecular pathways in the Fragile X Syndrome: insights into Autism Spectrum Disorders. *Journal of Neurodevelopmental Disorders*, **2011**, 3, 257-69	4.6	57
52	Ubiquitin E3 ligase Nedd4-1 acts as a downstream target of PI3K/PTEN-mTORC1 signaling to promote neurite growth. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13205-10	11.5	51
51	Dendritic LSm1/CBP80-mRNPs mark the early steps of transport commitment and translational control. *Journal of Cell Biology*, **2009**, 184, 423-35	7.3	51
50	Disruption of mTOR and MAPK pathways correlates with severity in idiopathic autism. *Translational Psychiatry*, **2019**, 9, 50	8.6	50
49	Arc Requires PSD95 for Assembly into Postsynaptic Complexes Involved with Neural Dysfunction and Intelligence. *Cell Reports*, **2017**, 21, 679-691	10.6	49
48	Dysregulated ADAM10-Mediated Processing of APP during a Critical Time Window Leads to Synaptic Deficits in Fragile X Syndrome. *Neuron*, **2015**, 87, 382-98	13.9	49
47	BC1-FMRP interaction is modulated by 2∀O-methylation: RNA-binding activity of the tudor domain and translational regulation at synapses. *Nucleic Acids Research*, **2012**, 40, 4086-96	20.1	48
46	Gar1p binds to the small nucleolar RNAs snR10 and snR30 in vitro through a nontypical RNA binding element. *Journal of Biological Chemistry*, **1998**, 273, 10868-73	5.4	46
45	SnapShot: FMRP mRNA targets and diseases. *Cell*, **2014**, 158, 1446-1446.e1	56.2	45
44	Signals, synapses, and synthesis: how new proteins control plasticity. *Frontiers in Neural Circuits*, **2009**, 3, 14	3.5	43

43	The brain cytoplasmic RNA BC1 regulates dopamine D2 receptor-mediated transmission in the striatum. *Journal of Neuroscience*, **2007**, 27, 8885-92	6.6	43
42	Reducing eIF4E-eIF4G interactions restores the balance between protein synthesis and actin dynamics in fragile X syndrome model mice. *Science Signaling*, **2017**, 10,	8.8	42
41	Differential usage of transcriptional start sites and polyadenylation sites in FMR1 premutation alleles. *Nucleic Acids Research*, **2011**, 39, 6172-85	20.1	38
40	Impaired GABAergic inhibition in the hippocampus of Fmr1 knockout mice. *Neuropharmacology*, **2017**, 116, 71-81	5.5	35
39	Molecular and cellular aspects of mental retardation in the Fragile X syndrome: from gene mutation/s to spine dysmorphogenesis. *Advances in Experimental Medicine and Biology*, **2012**, 970, 517-51	3.6	35
38	The autism- and schizophrenia-associated protein CYFIP1 regulates bilateral brain connectivity and behaviour. *Nature Communications*, **2019**, 10, 3454	17.4	33
37	Accumulated common variants in the broader fragile X gene family modulate autistic phenotypes. *EMBO Molecular Medicine*, **2015**, 7, 1565-79	12	32
36	Protein synthesis levels are increased in a subset of individuals with fragile X syndrome. *Human Molecular Genetics*, **2018**, 27, 2039-2051	5.6	31
35	Absence of the Fragile X Mental Retardation Protein results in defects of RNA editing of neuronal mRNAs in mouse. *RNA Biology*, **2017**, 14, 1580-1591	4.8	30
34	SnapShot: FMRP interacting proteins. *Cell*, **2014**, 159, 218-218.e1	56.2	29
33	KIF1Bβ transports dendritically localized mRNPs in neurons and is recruited to synapses in an activity-dependent manner. *Cellular and Molecular Life Sciences*, **2013**, 70, 335-56	10.3	28
32	The non-coding RNA BC1 regulates experience-dependent structural plasticity and learning. *Nature Communications*, **2017**, 8, 293	17.4	27
31	Somatosensory map expansion and altered processing of tactile inputs in a mouse model of fragile X syndrome. *Neurobiology of Disease*, **2016**, 96, 201-215	7.5	26
30	Aralar Sequesters GABA into Hyperactive Mitochondria, Causing Social Behavior Deficits. *Cell*, **2020**, 180, 1178-1197.e20	56.2	22
29	Cooperativity in RNA-protein interactions: the complex is more than the sum of its partners. *Current Opinion in Neurobiology*, **2016**, 39, 146-51	7.6	21
28	The fragile X mental retardation protein regulates tumor invasiveness-related pathways in melanoma cells. *Cell Death and Disease*, **2017**, 8, e3169	9.8	21
27	FXR2P Exerts a Positive Translational Control and Is Required for the Activity-Dependent Increase of PSD95 Expression. *Journal of Neuroscience*, **2015**, 35, 9402-8	6.6	18
26	Mutant HSPB1 causes loss of translational repression by binding to PCBP1, an RNA binding protein with a possible role in neurodegenerative disease. *Acta Neuropathologica Communications*, **2017**, 5, 5	7.3	18

25	Molecular dynamics simulations show how the FMRP Ile304Asn mutation destabilizes the KH2 domain structure and affects its function. *Journal of Biomolecular Structure and Dynamics*, **2014**, 32, 337-50	3.6	17
24	A unique binding mode of the eukaryotic translation initiation factor 4E for guiding the design of novel peptide inhibitors. *Protein Science*, **2015**, 24, 1370-82	6.3	16
23	MD and Docking Studies Reveal That the Functional Switch of CYFIP1 is Mediated by a Butterfly-like Motion. *Journal of Chemical Theory and Computation*, **2015**, 11, 3401-10	6.4	16
22	Gender Equality from a European Perspective: Myth and Reality. *Neuron*, **2017**, 96, 721-729	13.9	11
21	Stress undermines reward-guided cognitive performance through synaptic depression in the lateral habenula. *Neuron*, **2021**, 109, 947-956.e5	13.9	11
20	Detection of antisense protein (ASP) RNA transcripts in individuals infected with human immunodeficiency virus type 1 (HIV-1). *Journal of General Virology*, **2019**, 100, 863-876	4.9	9
19	Modelling Learning and Memory in Drosophila to Understand Intellectual Disabilities. *Neuroscience*, **2020**, 445, 12-30	3.9	7
18	Domain-Specific Cognitive Impairments in Humans and Flies With Reduced CYFIP1 Dosage. *Biological Psychiatry*, **2019**, 86, 306-314	7.9	6
17	Conserved Tao Kinase Activity Regulates Dendritic Arborization, Cytoskeletal Dynamics, and Sensory Function in. *Journal of Neuroscience*, **2020**, 40, 1819-1833	6.6	6
16	FXS-Like Phenotype in Two Unrelated Patients Carrying a Methylated Premutation of the Gene. *Frontiers in Genetics*, **2018**, 9, 442	4.5	5
15	Maintenance mechanisms of circuit-integrated axons. *Current Opinion in Neurobiology*, **2018**, 53, 162-173	7.6	5
14	Spatial control of nucleoporin condensation by fragile X-related proteins. *EMBO Journal*, **2020**, 39, e104467	9.7	4
13	Adenosine A receptor inhibition reduces synaptic and cognitive hippocampal alterations in Fmr1 KO mice. *Translational Psychiatry*, **2021**, 11, 112	8.6	4
12	Alpha2-Containing Glycine Receptors Promote Neonatal Spontaneous Activity of Striatal Medium Spiny Neurons and Support Maturation of Glutamatergic Inputs. *Frontiers in Molecular Neuroscience* , **2018**, 11, 380	6.1	4
11	Dendritic autophagy degrades postsynaptic proteins and is required for long-term synaptic depression in mice.. *Nature Communications*, **2022**, 13, 680	17.4	3
10	The autism and schizophrenia-associated protein CYFIP1 regulates bilateral brain connectivity		3
9	The Fragile X Mental Retardation Protein Regulates RIPK1 and Colorectal Cancer Resistance to Necroptosis. *Cellular and Molecular Gastroenterology and Hepatology*, **2021**, 11, 639-658	7.9	3
8	A Light Touch on Sociability. *Cell*, **2019**, 178, 769-771	56.2	2

7	Absence of RNA-binding protein FXR2P prevents prolonged phase of kainate-induced seizures. *EMBO Reports*, **2021**, 22, e51404	6.5	2
6	Detection of Human Immunodeficiency Virus Type 1 (HIV-1) Antisense Protein (ASP) RNA Transcripts in Patients by Strand-Specific RT-PCR. *Journal of Visualized Experiments*, **2019**,	1.6	2
5	Clinical and Molecular Assessment in a Female with Fragile X Syndrome and Tuberous Sclerosis **2016**, 5,		1
4	Fragile X mental retardation protein in intrahepatic cholangiocarcinoma: regulating the cancer cell behavior plasticity at the leading edge. *Oncogene*, **2021**, 40, 4033-4049	9.2	1
3	Identification and Characterization of Protein Complexes from Total Brain and Synaptoneurosomes: Heterogeneity of Molecular Complexes in Distinct Subcellular Domains. *Neuromethods*, **2011**, 69-79	0.4	
2	Neurons acetylate their way to migration. *EMBO Reports*, **2016**, 17, 1674-1676	6.5	
1	Epigenetic switch controls social actions.. *Neuron*, **2022**, 110, 1085-1087	13.9	