Davide Comoletti

List of Publications by Year
in descending order

36	2,601	331670	361022
papers	citations	21 h-index	35 g-index

37	37	37	3208
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Splice Code for trans-Synaptic Cell Adhesion Mediated by Binding of Neuroligin 1 to Î±- and Î²-Neurexins. Neuron, 2005, 48, 229-236.	8.1	416
2	LRRTM2 Interacts with Neurexin1 and Regulates Excitatory Synapse Formation. Neuron, 2009, 64, 799-806.	8.1	338
3	FLRT Proteins Are Endogenous Latrophilin Ligands and Regulate Excitatory Synapse Development. Neuron, 2012, 73, 903-910.	8.1	221
4	The Arg451Cys-Neuroligin-3 Mutation Associated with Autism Reveals a Defect in Protein Processing. Journal of Neuroscience, 2004, 24, 4889-4893.	3.6	214
5	Secreted amyloid-Î² precursor protein functions as a GABA _B R1a ligand to modulate synaptic transmission. Science, 2019, 363, .	12.6	205
6	Structural Analysis of the Synaptic Protein Neuroligin and Its Î²-Neurexin Complex: Determinants for Folding and Cell Adhesion. Neuron, 2007, 56, 979-991.	8.1	142
7	LRP8-Reelin-Regulated Neuronal Enhancer Signature Underlying Learning and Memory Formation. Neuron, 2015, 86, 696-710.	8.1	130
8	Gene Selection, Alternative Splicing, and Post-translational Processing Regulate Neuroligin Selectivity for Î²-Neurexinsâ€. Biochemistry, 2006, 45, 12816-12827.	2.5	117
9	Characterization of the Interaction of a Recombinant Soluble Neuroligin-1 with Neurexin-1Î². Journal of Biological Chemistry, 2003, 278, 50497-50505.	3.4	111
10	Super-complexes of adhesion GPCRs and neural guidance receptors. Nature Communications, 2016, 7, 11184.	12.8	84
11	Synaptic Arrangement of the Neuroligin/Î²-Neurexin Complex Revealed by X-Ray and Neutron Scattering. Structure, 2007, 15, 693-705.	3.3	64
12	The Crystal Structure of the Î±-Neurexin-1 Extracellular Region Reveals a Hinge Point for Mediating Synaptic Adhesion and Function. Structure, 2011, 19, 767-778.	3.3	56
13	A Mutation Linked with Autism Reveals a Common Mechanism of Endoplasmic Reticulum Retention for the Î±,Î²-Hydrolase Fold Protein Family. Journal of Biological Chemistry, 2006, 281, 9667-9676.	3.4	53
14	Reelin Induces Erk1/2 Signaling in Cortical Neurons Through a Non-canonical Pathway. Journal of Biological Chemistry, 2014, 289, 20307-20317.	3.4	49
15	A Proteomic Screen of Neuronal Cell-Surface Molecules Reveals IgLONs as Structurally Conserved Interaction Modules at the Synapse. Structure, 2019, 27, 893-906.e9.	3.3	44
16	Structural and Mechanistic Insights into the Latrophilin3-FLRT3 Complex that Mediates Glutamatergic Synapse Development. Structure, 2015, 23, 1665-1677.	3.3	42
17	Structural Characterization of Recombinant Soluble Rat Neuroligin 1:â€‰ Mapping of Secondary Structure and Glycosylation by Mass Spectrometry. Biochemistry, 2004, 43, 1496-1506.	2.5	41
18	Autism-associated R451C mutation in neuroligin3 leads to activation of the unfolded protein response in a PC12 Tet-On inducible system. Biochemical Journal, 2016, 473, 423-434.	3.7	37

#	Article	IF	Citations
19	Synapse type-specific proteomic dissection identifies IgSF8 as a hippocampal CA3 microcircuit organizer. Nature Communications, 2020, 11, 5171.	12.8	35
20	The Macromolecular Architecture of Extracellular Domain of Î±NRXN1: Domain Organization, Flexibility, and Insights into Trans-Synaptic Disposition. Structure, 2010, 18, 1044-1053.	3.3	30
21	Structural Characterization of the Extracellular Domain of CASPR2 and Insights into Its Association with the Novel Ligand Contactin1. Journal of Biological Chemistry, 2016, 291, 5788-5802.	3.4	29
22	Structural Insights into Reelin Function: Present and Future. Frontiers in Cellular Neuroscience, 2016, 10, 137.	3.7	27
23	Ecto-Fc MS identifies ligand-receptor interactions through extracellular domain Fc fusion protein baits and shotgun proteomic analysis. Nature Protocols, 2014, 9, 2061-2074.	12.0	21
24	An ELISA-Based Screening Platform for Ligandâ€“Receptor Discovery. Methods in Enzymology, 2019, 615, 453-475.	1.0	18
25	Shed CNTNAP2 ectodomain is detectable in CSF and regulates Ca2+ homeostasis and network synchrony via PMCA2/ATP2B2. Neuron, 2022, 110, 627-643.e9.	8.1	17
26	In utero exposure to endogenous maternal polyclonal anti-Caspr2 antibody leads to behavioral abnormalities resembling autism spectrum disorder in male mice. Scientific Reports, 2020, 10, 14446.	3.3	12
27	Structureâ€“function relationships of the Î±/Î²-hydrolase fold domain of neuroligin: A comparison with acetylcholinesterase. Chemico-Biological Interactions, 2010, 187, 49-55.	4.0	10
28	Characterization of the solution structure of a neuroligin/Î²-neurexin complex. Chemico-Biological Interactions, 2008, 175, 150-155.	4.0	8
29	Processing of Cholinesterase-like α/β-Hydrolase Fold Proteins: Alterations Associated with Congenital Disorders. Protein and Peptide Letters, 2012, 19, 173-179.	0.9	8
30	The structure-function relationship of a signaling-competent, dimeric Reelin fragment. Structure, 2021, 29, 1156-1170.e6.	3.3	6
31	Case Report: Is Catatonia a Clinical Feature of the Natural Progression of NLGN2-Related Neurodevelopmental Disorder?. Journal of Autism and Developmental Disorders, 2021, 51, 371-376.	2.7	5
32	Comparative mapping of selected structural determinants on the extracellular domains of cholinesterase-like cell-adhesion molecules. Neuropharmacology, 2021, 184, 108381.	4.1	4
33	Purification of a heterodimeric Reelin construct to investigate binding stoichiometry. European Biophysics Journal, 2020, 49, 773-779.	2.2	3
34	In trans neuregulin3-Caspr3 interaction controls DA axonal bassoon cluster development. Current Biology, 2021, 31, 3330-3342.e7.	3.9	2
35	P1â€185: SECRETED AMYLOID PRECURSOR PROTEIN IS A GABABR1A LIGAND THAT SUPPRESSES SYNAPTIC VESICLE RELEASE. Alzheimer's and Dementia, 2018, 14, P349.	0.8	1
36	Structure of Reelin repeat 8 and the adjacent C-terminal region. Biophysical Journal, 2022, 121, 2526-2537.	0.5	0