

# Carlos F Ibáñez

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

6,309  
citations

101384

36  
h-index

79541

73  
g-index

109  
all docs

109  
docs citations

109  
times ranked

5918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional receptor for GDNF encoded by the c-ret proto-oncogene. <i>Nature</i> , 1996, 381, 785-789.	13.7	785
2	The Neural Cell Adhesion Molecule NCAM Is an Alternative Signaling Receptor for GDNF Family Ligands. <i>Cell</i> , 2003, 113, 867-879.	13.5	530
3	Complementary and Overlapping Expression of Glial Cell Line-Derived Neurotrophic Factor (GDNF), c-ret Proto-Oncogene, and GDNF Receptor Indicates Multiple Mechanisms of Trophic Actions in the Adult Rat CNS. <i>Journal of Neuroscience</i> , 1997, 17, 3554-3567.	1.7	443
4	GDNF prevents degeneration and promotes the phenotype of brain noradrenergic neurons in vivo. <i>Neuron</i> , 1995, 15, 1465-1473.	3.8	337
5	Ret-dependent and -independent Mechanisms of Glial Cell Line-derived Neurotrophic Factor Signaling in Neuronal Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 20885-20894.	1.6	276
6	The orphan receptor ALK7 and the Activin receptor ALK4 mediate signaling by Nodal proteins during vertebrate development. <i>Genes and Development</i> , 2001, 15, 2010-2022.	2.7	273
7	Released GFR $\alpha$ 1 Potentiates Downstream Signaling, Neuronal Survival, and Differentiation via a Novel Mechanism of Recruitment of c-Ret to Lipid Rafts. <i>Neuron</i> , 2001, 29, 171-184.	3.8	248
8	p75 neurotrophin receptor signaling in nervous system injury and degeneration: paradox and opportunity. <i>Trends in Neurosciences</i> , 2012, 35, 431-440.	4.2	206
9	Biology of GDNF and its receptors – Relevance for disorders of the central nervous system. <i>Neurobiology of Disease</i> , 2017, 97, 80-89.	2.1	175
10	Multiple GPI-Anchored Receptors Control GDNF-Dependent and Independent Activation of the c-Ret Receptor Tyrosine Kinase. <i>Molecular and Cellular Neurosciences</i> , 1998, 11, 47-63.	1.0	172
11	GDNF and GFR $\alpha$ 1 Promote Differentiation and Tangential Migration of Cortical GABAergic Neurons. <i>Neuron</i> , 2005, 45, 701-713.	3.8	169
12	GDNF and GFR $\alpha$ 1 promote formation of neuronal synapses by ligand-induced cell adhesion. <i>Nature Neuroscience</i> , 2007, 10, 293-300.	7.1	145
13	Activation of the p75 Neurotrophin Receptor through Conformational Rearrangement of Disulphide-Linked Receptor Dimers. <i>Neuron</i> , 2009, 62, 72-83.	3.8	134
14	GDNF is a chemoattractant factor for neuronal precursor cells in the rostral migratory stream. <i>Molecular and Cellular Neurosciences</i> , 2006, 31, 505-514.	1.0	130
15	Structure and Physiology of the RET Receptor Tyrosine Kinase. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a009134-a009134.	2.3	128
16	Growth/differentiation factor 3 signals through ALK7 and regulates accumulation of adipose tissue and diet-induced obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7252-7256.	3.3	116
17	Jekyll–Hyde neurotrophins: the story of proNGF. <i>Trends in Neurosciences</i> , 2002, 25, 284-286.	4.2	115
18	Message in a bottle: long-range retrograde signaling in the nervous system. <i>Trends in Cell Biology</i> , 2007, 17, 519-528.	3.6	113

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19	Target-Derived GFR $\beta$ 1 as an Attractive Guidance Signal for Developing Sensory and Sympathetic Axons via Activation of Cdk5. <i>Neuron</i> , 2002, 36, 387-401.	3.8	107
20	Lipid rafts and the control of neurotrophic factor signaling in the nervous system: variations on a theme. <i>Current Opinion in Neurobiology</i> , 2002, 12, 542-549.	2.0	106
21	Neurotrophin-7: a novel member of the neurotrophin family from the zebrafish. <i>FEBS Letters</i> , 1998, 424, 285-290.	1.3	105
22	Activin B receptor ALK7 is a negative regulator of pancreatic $\beta$ -cell function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7246-7251.	3.3	87
23	Synergistic interaction between Gdf1 and Nodal during anterior axis development. <i>Developmental Biology</i> , 2006, 293, 370-381.	0.9	82
24	Structure-function relationships in the neurotrophin family. <i>Journal of Neurobiology</i> , 1994, 25, 1349-1361.	3.7	78
25	Structural basis of death domain signaling in the p75 neurotrophin receptor. <i>ELife</i> , 2015, 4, e11692.	2.8	69
26	A Novel Type I Receptor Serine-Threonine Kinase Predominantly Expressed in the Adult Central Nervous System. <i>Journal of Biological Chemistry</i> , 1996, 271, 30603-30609.	1.6	68
27	Neurotrophin-4: The odd one out in the neurotrophin family. <i>Neurochemical Research</i> , 1996, 21, 787-793.	1.6	67
28	Adipocyte ALK7 links nutrient overload to catecholamine resistance in obesity. <i>ELife</i> , 2014, 3, e03245.	2.8	65
29	Regionalized Loss of Parvalbumin Interneurons in the Cerebral Cortex of Mice with Deficits in GFR $\beta$ 1 Signaling. <i>Journal of Neuroscience</i> , 2009, 29, 10695-10705.	1.7	57
30	Genetic Dissection of Neurotrophin Signaling through the p75 Neurotrophin Receptor. <i>Cell Reports</i> , 2012, 2, 1563-1570.	2.9	56
31	The Orphan Receptor Serine/Threonine Kinase ALK7 Signals Arrest of Proliferation and Morphological Differentiation in a Neuronal Cell Line. <i>Journal of Biological Chemistry</i> , 2001, 276, 5140-5146.	1.6	49
32	Critical Role of GFR $\beta$ 1 in the Development and Function of the Main Olfactory System. <i>Journal of Neuroscience</i> , 2012, 32, 17306-17320.	1.7	49
33	ALK7, a Receptor for Nodal, Is Dispensable for Embryogenesis and Left-Right Patterning in the Mouse. <i>Molecular and Cellular Biology</i> , 2004, 24, 9383-9389.	1.1	47
34	An ethanol-inducible MDR ethanol dehydrogenase/acetaldehyde reductase in <i>Escherichia coli</i> . Structural and enzymatic relationships to the eukaryotic protein forms. <i>FEBS Journal</i> , 1999, 263, 305-311.	0.2	45
35	The p75 Neurotrophin Receptor Is an Essential Mediator of Impairments in Hippocampal-Dependent Associative Plasticity and Memory Induced by Sleep Deprivation. <i>Journal of Neuroscience</i> , 2019, 39, 5452-5465.	1.7	44
36	Neuron-type-specific signaling by the p75NTR death receptor regulated by differential proteolytic cleavage. <i>Journal of Cell Science</i> , 2015, 128, 1507-17.	1.2	42

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37	Beyond the cell surface: New mechanisms of receptor function. <i>Biochemical and Biophysical Research Communications</i> , 2010, 396, 24-27.	1.0	34
38	Compromised Survival of Cerebellar Molecular Layer Interneurons Lacking GDNF Receptors GFR $\alpha$ 1 or RET Impairs Normal Cerebellar Motor Learning. <i>Cell Reports</i> , 2017, 19, 1977-1986.	2.9	32
39	RIP2 Gates TRAF6 Interaction with Death Receptor p75NTR to Regulate Cerebellar Granule Neuron Survival. <i>Cell Reports</i> , 2018, 24, 1013-1024.	2.9	32
40	Age-related changes in hippocampal-dependent synaptic plasticity and memory mediated by p75 neurotrophin receptor. <i>Aging Cell</i> , 2021, 20, e13305.	3.0	31
41	Death Domain Signaling by Disulfide-Linked Dimers of the p75 Neurotrophin Receptor Mediates Neuronal Death in the CNS. <i>Journal of Neuroscience</i> , 2016, 36, 5587-5595.	1.7	30
42	GFR $\alpha$ 1 Regulates Purkinje Cell Migration by Counteracting NCAM Function. <i>Cell Reports</i> , 2017, 18, 367-379.	2.9	30
43	Topographical transcriptome mapping of the mouse medial ganglionic eminence by spatially resolved RNA-seq. <i>Genome Biology</i> , 2014, 15, 486.	3.8	29
44	Disruption of the GDNF Binding Site in NCAM Dissociates Ligand Binding and Homophilic Cell Adhesion. <i>Journal of Biological Chemistry</i> , 2007, 282, 12734-12740.	1.6	28
45	Neuroendocrine control of female reproductive function by the activin receptor ALK7. <i>FASEB Journal</i> , 2012, 26, 4966-4976.	0.2	28
46	Abnormal TDP-43 function impairs activity-dependent BDNF secretion, synaptic plasticity, and cognitive behavior through altered Sortilin splicing. <i>EMBO Journal</i> , 2019, 38, .	3.5	28
47	Thalamo-cortical axons regulate the radial dispersion of neocortical GABAergic interneurons. <i>ELife</i> , 2016, 5, .	2.8	25
48	RET-independent signaling by GDNF ligands and GFR $\alpha$ receptors. <i>Cell and Tissue Research</i> , 2020, 382, 71-82.	1.5	23
49	Hierarchical Control of Sensory Neuron Development by Neurotrophic Factors. <i>Neuron</i> , 2007, 54, 673-675.	3.8	22
50	A Small Molecule Targeting the Transmembrane Domain of Death Receptor p75NTR Induces Melanoma Cell Death and Reduces Tumor Growth. <i>Cell Chemical Biology</i> , 2018, 25, 1485-1494.e5.	2.5	20
51	Death domain of p75 neurotrophin receptor: a structural perspective on an intracellular signalling hub. <i>Biological Reviews</i> , 2019, 94, 1282-1293.	4.7	20
52	Insights into GFR $\alpha$ 1 Regulation of Neural Cell Adhesion Molecule (NCAM) Function from Structure-Function Analysis of the NCAM/GFR $\alpha$ 1 Receptor Complex. <i>Journal of Biological Chemistry</i> , 2008, 283, 13792-13798.	1.6	18
53	Catecholaminergic neuron survival: getting hooked on GDNF. <i>Nature Neuroscience</i> , 2008, 11, 735-736.	7.1	16
54	MET signaling in GABAergic neuronal precursors of the medial ganglionic eminence restricts GDNF activity in cells that express GFR $\alpha$ 1 and a new transmembrane receptor partner. <i>Journal of Cell Science</i> , 2011, 124, 2797-2805.	1.2	14

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55	MAG induces apoptosis in cerebellar granule neurons through p75NTR demarcating granule layer/white matter boundary. <i>Cell Death and Disease</i> , 2019, 10, 732.	2.7	14
56	CD137 negatively affects browning of white adipose tissue during cold exposure. <i>Journal of Biological Chemistry</i> , 2020, 295, 2034-2042.	1.6	13
57	Lipid Rafts as Organizing Platforms for Cell Chemotaxis and Axon Guidance. <i>Neuron</i> , 2004, 42, 3-5.	3.8	12
58	Inactive variants of death receptor p75 <sup>NTR</sup> reduce Alzheimer's neuropathology by interfering with APP internalization. <i>EMBO Journal</i> , 2021, 40, e104450.	3.5	11
59	Regulation of metabolic homeostasis by the TGF $\beta$ 2 superfamily receptor ALK7. <i>FEBS Journal</i> , 2022, 289, 5776-5797.	2.2	10
60	Control of brown adipose tissue adaptation to nutrient stress by the activin receptor ALK7. <i>ELife</i> , 2020, 9, .	2.8	10
61	On the role of the low-affinity neurotrophin receptor p75LNTR in nerve growth factor induction of differentiation and AP 1 binding activity in PC12 cells. <i>Journal of Molecular Neuroscience</i> , 1997, 8, 29-44.	1.1	9
62	ALK4 coordinates extracellular and intrinsic signals to regulate development of cortical somatostatin interneurons. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	6
63	Structural basis of NF- $\kappa$ B signaling by the p75 neurotrophin receptor interaction with adaptor protein TRADD through their respective death domains. <i>Journal of Biological Chemistry</i> , 2021, 297, 100916.	1.6	6
64	Structure-activity relationship of the p55 TNF receptor death domain and its lymphoproliferation mutants. <i>FEBS Journal</i> , 2001, 268, 1382-1391.	0.2	5
65	Cell-autonomous role of GFR $\beta$ 1 in the development of olfactory bulb GABAergic interneurons. <i>Biology Open</i> , 2018, 7, .	0.6	5
66	Sustained anti-obesity effects of life style change and anti-inflammatory interventions after conditional inactivation of the activin receptor ALK7. <i>FASEB Journal</i> , 2021, 35, e21759.	0.2	5
67	Convergent dopamine and ALK4 signaling to PCBP1 controls FosB alternative splicing and cocaine behavioral sensitization. <i>EMBO Journal</i> , 2022, 41, .	3.5	5
68	Topographical transcriptome mapping of the mouse medial ganglionic eminence by spatially-resolved RNA-seq. <i>Genome Biology</i> , 2014, 15, 486.	13.9	3
69	Novel, testis-specific mRNA transcripts encoding N-terminally truncated choline acetyltransferase. <i>Molecular Reproduction and Development</i> , 1999, 53, 274-281.	1.0	2
70	Comment on Bu et al. Insulin Regulates Lipolysis and Fat Mass by Upregulating Growth/Differentiation Factor 3 in Adipose Tissue Macrophages. <i>Diabetes</i> 2018;67:1761-1772. <i>Diabetes</i> , 2018, 67, e1-e1.	0.3	2
71	Adult medial habenula neurons require GDNF receptor GFR $\beta$ 1 for synaptic stability and function. <i>PLoS Biology</i> , 2021, 19, e3001350.	2.6	2
72	Introducing Oxford Open Neuroscience, 2022, 1, .		0