May Khanna

List of Publications by Year
in descending order

67	2,331	147726 31	223716 46
papers	citations	h-index	g-index

73	73	73	2742
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Animal Models of Neurodegenerative Disease: Recent Advances in Fly Highlight Innovative Approaches to Drug Discovery. Frontiers in Molecular Neuroscience, 2022, 15, 883358.	1.4	17
2	Aptamers Targeting Hallmark Proteins of Neurodegeneration. Nucleic Acid Therapeutics, 2022, 32, 235-250.	2.0	3
3	Heat shock protein Grp78/BiP/HspA5 binds directly to TDP-43 and mitigates toxicity associated with disease pathology. Scientific Reports, 2022, 12, 8140.	1.6	12
4	In Silico Targeting of the Long Noncoding RNA MALAT1. ACS Medicinal Chemistry Letters, 2021, 12, 915-921.	1.3	10
5	Antihypertensive drug treatment and susceptibility to SARS-CoV-2 infection in human PSC-derived cardiomyocytes and primary endothelial cells. Stem Cell Reports, 2021, 16, 2459-2472.	2.3	11
6	Direct targeting of TDP-43, from small molecules to biologics: the therapeutic landscape. RSC Chemical Biology, 2021, 2, 1158-1166.	2.0	6
7	Selective targeting of NaV1.7 via inhibition of the CRMP2-Ubc9 interaction reduces pain in rodents. Science Translational Medicine, 2021, 13, eabh1314.	5.8	23
8	An Allosteric Modulator of RNA Binding Targeting the N-Terminal Domain of TDP-43 Yields Neuroprotective Properties. ACS Chemical Biology, 2020, 15, 2854-2859.	1.6	19
9	Discovery and Characterization of 2,5-Substituted Benzoic Acid Dual Inhibitors of the Anti-apoptotic Mcl-1 and Bfl-1 Proteins. Journal of Medicinal Chemistry, 2020, 63, 2489-2510.	2.9	23
10	Abstract LB-226: Discovery of small molecule Mcl-1 and Bfl-1 inhibitors. , 2020, , .		0
11	Chemical Probes to Control RNA Function. Chemical Biology, 2020, , 214-246.	0.1	0
12	The Natural Flavonoid Naringenin Elicits Analgesia through Inhibition of NaV1.8 Voltage-Gated Sodium Channels. ACS Chemical Neuroscience, 2019, 10, 4834-4846.	1.7	20
13	1H, 15N and 13C backbone assignment of apo TDP-43 RNA recognition motifs. Biomolecular NMR Assignments, 2019, 13, 163-167.	0.4	3
14	Small Molecule Targeting TDP-43â€™s RNA Recognition Motifs Reduces Locomotor Defects in a Drosophila Model of Amyotrophic Lateral Sclerosis (ALS). ACS Chemical Biology, 2019, 14, 2006-2013.	1.6	45
15	Structural Insights Into TDP-43 and Effects of Post-translational Modifications. Frontiers in Molecular Neuroscience, 2019, 12, 301.	1.4	86
16	Targeting the CaVÎ±â€“CaVÎ² interaction yields an antagonist of the N-type CaV2.2 channel with broad antinociceptive efficacy. Pain, 2019, 160, 1644-1661.	2.0	30
17	Evaluation of edonerpic maleate as a CRMP2 inhibitor for pain relief. Channels, 2019, 13, 498-504.	1.5	2
18	(â˜)-Hardwickiic Acid and Hautriwaic Acid Induce Antinociception via Blockade of Tetrodotoxin-Sensitive Voltage-Dependent Sodium Channels. ACS Chemical Neuroscience, 2019, 10, 1716-1728.	1.7	22

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19	Betulinic acid, derived from the desert lavender Hyptis emoryi, attenuates paclitaxel-, HIV-, and nerve injuryâ€“associated peripheral sensory neuropathy via block of N- and T-type calcium channels. Pain, 2019, 160, 117-135.	2.0	44
20	Remodeling the interactions between TDP43 and RNA for development of therapeutics for ALS. FASEB Journal, 2019, 33, 670.1.	0.2	0
21	Homologyâ€guided mutational analysis reveals the functional requirements for antinociceptive specificity of collapsin response mediator protein 2â€derived peptides. British Journal of Pharmacology, 2018, 175, 2244-2260.	2.7	40
22	Blocking CRMP2 SUMOylation reverses neuropathic pain. Molecular Psychiatry, 2018, 23, 2119-2121.	4.1	47
23	A novel variant in TAF1 affects gene expression and is associated with X-linked TAF1 intellectual disability syndrome. Neuronal Signaling, 2018, 2, NS20180141.	1.7	16
24	A Chemical Biology Approach to Model Pontocerebellar Hypoplasia Type 1B (PCH1B). ACS Chemical Biology, 2018, 13, 3000-3010.	1.6	9
25	Chemical shift perturbation mapping of the Ubc9-CRMP2 interface identifies a pocket in CRMP2 amenable for allosteric modulation of Nav1.7 channels. Channels, 2018, 12, 219-227.	1.5	17
26	Inhibition of the Ubc9 E2 SUMO-conjugating enzymeâ€“CRMP2 interaction decreases NaV1.7 currents and reverses experimental neuropathic pain. Pain, 2018, 159, 2115-2127.	2.0	49
27	The principles of tomorrow's university. F1000Research, 2018, 7, 1926.	0.8	6
28	A single structurally conserved SUMOylation site in CRMP2 controls NaV1.7 function. Channels, 2017, 11, 316-328.	1.5	34
29	CRISPR/Cas9 editing of Nf1 gene identifies CRMP2 as a therapeutic target in neurofibromatosis type 1-related pain that is reversed by (S)-Lacosamide. Pain, 2017, 158, 2301-2319.	2.0	67
30	Hierarchical CRMP2 posttranslational modifications control NaV1.7 function. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8443-E8452.	3.3	103
31	Sustained relief of ongoing experimental neuropathic pain by a CRMP2 peptide aptamer with low abuse potential. Pain, 2016, 157, 2124-2140.	2.0	30
32	(S)-lacosamide inhibition of CRMP2 phosphorylation reduces postoperative and neuropathic pain behaviors through distinct classes of sensory neurons identified by constellation pharmacology. Pain, 2016, 157, 1448-1463.	2.0	54
33	(S)-Lacosamide Binding to Collapsin Response Mediator Protein 2 (CRMP2) Regulates CaV2.2 Activity by Subverting Its Phosphorylation by Cdk5. Molecular Neurobiology, 2016, 53, 1959-1976.	1.9	50
34	A membrane-delimited N-myristoylated CRMP2 peptide aptamer inhibits CaV2.2 trafficking and reverses inflammatory and postoperative pain behaviors. Pain, 2015, 156, 1247-1264.	2.0	71
35	Differential neuroprotective potential of CRMP2 peptide aptamers conjugated to cationic, hydrophobic, and amphipathic cell penetrating peptides. Frontiers in Cellular Neuroscience, 2015, 8, 471.	1.8	37
36	(399) A membrane-delimited N-myristoylated CRMP2 peptide aptamer inhibits CaV2.2 trafficking and reverses post-operative pain behaviors. Journal of Pain, 2015, 16, S75.	0.7	0

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37	The functionalized amino acid (S)-Lacosamide subverts CRMP2-mediated tubulin polymerization to prevent constitutive and activity-dependent increase in neurite outgrowth. Frontiers in Cellular Neuroscience, 2014, 8, 196.	1.8	38
38	Discovery and characterization of small molecules that target the GTPase Ral. Nature, 2014, 515, 443-447.	13.7	126
39	Small-molecule inhibition of the uPARÂ·uPA interaction: Synthesis, biochemical, cellular, in vivo pharmacokinetics and efficacy studies in breast cancer metastasis. Bioorganic and Medicinal Chemistry, 2013, 21, 2145-2155.	1.4	43
40	Mapping CRMP3 domains involved in dendrite morphogenesis and voltage-gated calcium channel regulation. Journal of Cell Science, 2013, 126, 4262-73.	1.2	21
41	Expression and purification of functional human glycogen synthase-1 (hGYS1) in insect cells. Protein Expression and Purification, 2013, 90, 78-83.	0.6	12
42	Structural basis for 2â€²-phosphate incorporation into glycogen by glycogen synthase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20976-20981.	3.3	29
43	Design, synthesis, biochemical studies, cellular characterization, and structure-based computational studies of small molecules targeting the urokinase receptor. Bioorganic and Medicinal Chemistry, 2012, 20, 4760-4773.	1.4	34
44	CRMP-2 Peptide Mediated Decrease of High and Low Voltage-Activated Calcium Channels, Attenuation of Nociceptor Excitability, and Anti-Nociception in a Model of AIDS Therapy-Induced Painful Peripheral Neuropathy. Molecular Pain, 2012, 8, 1744-8069-8-54.	1.0	48
45	A peptide uncoupling CRMP-2 from the presynaptic Ca2+ channel complex demonstrates efficacy in animal models of migraine and AIDS therapy-induced neuropathy. Translational Neuroscience, 2012, 3, 1-8.	0.7	36
46	NMR Studies of Proteinâ€“RNA Interactions. Methods in Molecular Biology, 2012, 831, 197-218.	0.4	2
47	Suppression of inflammatory and neuropathic pain by uncoupling CRMP-2 from the presynaptic Ca2+ channel complex. Nature Medicine, 2011, 17, 822-829.	15.2	200
48	Targeting Multiple Conformations Leads to Small Molecule Inhibitors of the uPARÂ·uPA Proteinâ€“Protein Interaction That Block Cancer Cell Invasion. ACS Chemical Biology, 2011, 6, 1232-1243.	1.6	48
49	Targeting Ovarian Tumor Cell Adhesion Mediated by Tissue Transglutaminase. Molecular Cancer Therapeutics, 2011, 10, 626-636.	1.9	35
50	Virtual Screening Targeting the Urokinase Receptor, Biochemical and Cell-Based Studies, Synthesis, Pharmacokinetic Characterization, and Effect on Breast Tumor Metastasis. Journal of Medicinal Chemistry, 2011, 54, 7193-7205.	2.9	32
51	Target-Specific Support Vector Machine Scoring in Structure-Based Virtual Screening: Computational Validation, In Vitro Testing in Kinases, and Effects on Lung Cancer Cell Proliferation. Journal of Chemical Information and Modeling, 2011, 51, 755-759.	2.5	59
52	Discovery of novel regulators of aldehyde dehydrogenase isoenzymes. Chemico-Biological Interactions, 2011, 191, 153-158.	1.7	33
53	Further insights into the antinociceptive potential of a peptide disrupting the N-type calcium channelâ€“CRMP-2 signaling complex. Channels, 2011, 5, 449-456.	1.5	40
54	Discovery of a Novel Class of Covalent Inhibitor for Aldehyde Dehydrogenases. Journal of Biological Chemistry, 2011, 286, 43486-43494.	1.6	65

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55	Docking to Erlotinib Off-Targets Leads to Inhibitors of Lung Cancer Cell Proliferation with Suitable in Vitro Pharmacokinetics. ACS Medicinal Chemistry Letters, 2010, 1, 229-233.	1.3	18
56	Relative Inhibitory Potency of Molinate and Metabolites with Aldehyde Dehydrogenase 2: Implications for the Mechanism of Enzyme Inhibition. Chemical Research in Toxicology, 2010, 23, 1843-1850.	1.7	19
57	A systematic characterization of Cwc21, the yeast ortholog of the human spliceosomal protein SRm300. Rna, 2009, 15, 2174-2185.	1.6	34
58	Molecular chaperone Hsp90 stabilizes Pih1/Nop17 to maintain R2TP complex activity that regulates snoRNA accumulation. Journal of Cell Biology, 2008, 180, 563-578.	2.3	159
59	RNA in control. Nature, 2007, 447, 391-393.	13.7	7
60	Structural study of the H/ACA snoRNP components Nop10p and the 3' hairpin of U65 snoRNA. Rna, 2006, 12, 40-52.	1.6	34
61	Photoinduced cleavage by a rhodium complex at GÂ·U mismatches and exposed guanines in large and small RNAs. Biochimie, 2002, 84, 859-868.	1.3	7
62	Synthesis of a 3-methyluridine phosphoramidite to investigate the role of methylation in a ribosomal RNA hairpin. Bioorganic and Medicinal Chemistry, 2002, 10, 325-332.	1.4	13
63	Reactions of platinum(II) complexes with a DNA hairpin, d(CGCGTTGTTCGCG): structural characterization and kinetic studies. Inorganica Chimica Acta, 2000, 297, 145-155.	1.2	12
64	Unique structural and stabilizing roles for the individual pseudouridine residues in the 1920 region of Escherichia coli 23S rRNA. Nucleic Acids Research, 2000, 28, 2075-2083.	6.5	83
65	Thermodynamics of RNA hairpins containing single internal mismatches. Nucleic Acids Research, 1999, 27, 1118-1125.	6.5	34
66	Modeling of Pontocerebellar Hypoplasia Type 1B and Chemical Mimicry in Patient-Derived Neural Stem Cells. SSRN Electronic Journal, 0, , .	0.4	0
67	Small Molecules Targeting RIPK3/MLKL Interactions Disrupt Necroptosis. SSRN Electronic Journal, 0, , .	0.4	0