Nicholas Andrew Veldhuis

List of Publications by Year
in descending order

50 papers	2,291 citations	257357 24 h-index	223716 46 g-index
52 all docs	52 docs citations	52 times ranked	3250 citing authors

#	Article	IF	Citations
1	Neurokinin 1 receptor signaling in endosomes mediates sustained nociception and is a viable therapeutic target for prolonged pain relief. Science Translational Medicine, 2017, 9, .	5.8	158
2	Cathepsin S Causes Inflammatory Pain via Biased Agonism of PAR2 and TRPV4. Journal of Biological Chemistry, 2014, 289, 27215-27234.	1.6	153
3	Protease-activated Receptor 2 (PAR2) Protein and Transient Receptor Potential Vanilloid 4 (TRPV4) Protein Coupling Is Required for Sustained Inflammatory Signaling*. Journal of Biological Chemistry, 2013, 288, 5790-5802.	1.6	140
4	Endosomal signaling of the receptor for calcitonin gene-related peptide mediates pain transmission. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12309-12314.	3.3	136
5	The G Proteinâ€“Coupled Receptorâ€“Transient Receptor Potential Channel Axis: Molecular Insights for Targeting Disorders of Sensation and Inflammation. Pharmacological Reviews, 2015, 67, 36-73.	7.1	131
6	Protease-activated receptor-2 in endosomes signals persistent pain of irritable bowel syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7438-E7447.	3.3	128
7	Quantification and Potential Functions of Endogenous Agonists of Transient Receptor Potential Channels in Patients With Irritable Bowel Syndrome. Gastroenterology, 2015, 149, 433-444.e7.	0.6	116
8	G Protein-Coupled Receptors: Dynamic Machines for Signaling Pain and Itch. Neuron, 2015, 88, 635-649.	3.8	115
9	A pH-responsive nanoparticle targets the neurokinin 1 receptor in endosomes to prevent chronic pain. Nature Nanotechnology, 2019, 14, 1150-1159.	15.6	103
10	Cysteine-rich secretory protein 4 is an inhibitor of transient receptor potential M8 with a role in establishing sperm function. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7034-7039.	3.3	96
11	Endosomal signaling of delta opioid receptors is an endogenous mechanism and therapeutic target for relief from inflammatory pain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15281-15292.	3.3	72
12	Cellular Interactions of Liposomes and PISA Nanoparticles during Human Blood Flow in a Microvascular Network. Small, 2020, 16, e2002861.	5.2	67
13	A Novel Ultra-Stable, Monomeric Green Fluorescent Protein For Direct Volumetric Imaging of Whole Organs Using CLARITY. Scientific Reports, 2018, 8, 667.	1.6	66
14	The multi-layered regulation of copper translocating P-type ATPases. BioMetals, 2009, 22, 177-190.	1.8	64
15	Schwann cell endosome CGRP signals elicit periorbital mechanical allodynia in mice. Nature Communications, 2022, 13, 646.	5.8	57
16	Phosphorylation regulates copper-responsive trafficking of the Menkes copper transporting P-type ATPase. International Journal of Biochemistry and Cell Biology, 2009, 41, 2403-2412.	1.2	52
17	N-Glycosylation Determines Ionic Permeability and Desensitization of the TRPV1 Capsaicin Receptor. Journal of Biological Chemistry, 2012, 287, 21765-21772.	1.6	44
18	The tyrosine kinase inhibitor bafetinib inhibits <scp>PAR</scp>2â€induced activation of <scp>TRPV</scp>4 channels <i>in vitro</i> and pain <i>in vivo</i>. British Journal of Pharmacology, 2014, 171, 3881-3894.	2.7	44

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19	Selective G protein signaling driven by substance Pâ€“neurokinin receptor dynamics. Nature Chemical Biology, 2022, 18, 109-115.	3.9	40
20	Activation of Mu Opioid Receptors Sensitizes Transient Receptor Potential Vanilloid Type 1 (TRPV1) via Î2-Arrestin-2-Mediated Cross-Talk. PLoS ONE, 2014, 9, e93688.	1.1	39
21	P2Y1 Receptor Activation of the TRPV4 Ion Channel Enhances Purinergic Signaling in Satellite Glial Cells. Journal of Biological Chemistry, 2015, 290, 29051-29062.	1.6	39
22	Rapid Assessment of Nanoparticle Extravasation in a Microfluidic Tumor Model. ACS Applied Nano Materials, 2019, 2, 1844-1856.	2.4	36
23	Transient receptor potential vanilloid 4 inhibits mouse colonic motility by activating NO-dependent enteric neurotransmission. Journal of Molecular Medicine, 2015, 93, 1297-1309.	1.7	31
24	Protein kinase-dependent phosphorylation of the Menkes copper P-type ATPase. Biochemical and Biophysical Research Communications, 2003, 303, 337-342.	1.0	29
25	Internalized GPCRs as Potential Therapeutic Targets for the Management of Pain. Frontiers in Molecular Neuroscience, 2019, 12, 273.	1.4	27
26	Mu and Delta Opioid Receptors Are Coexpressed and Functionally Interact in the Enteric Nervous System of the Mouse Colon. Cellular and Molecular Gastroenterology and Hepatology, 2020, 9, 465-483.	2.3	23
27	Conservation of copper-transporting P(IB)-type ATPase function. BioMetals, 2010, 23, 681-694.	1.8	22
28	Role of Nonneuronal TRPV4 Signaling in Inflammatory Processes. Advances in Pharmacology, 2017, 79, 117-139.	1.2	22
29	G-Proteinâ€“Coupled Receptors Are Dynamic Regulators of Digestion and Targets for Digestive Diseases. Gastroenterology, 2019, 156, 1600-1616.	0.6	22
30	Inflammation-associated changes in DOR expression and function in the mouse colon. American Journal of Physiology - Renal Physiology, 2018, 315, G544-G559.	1.6	20
31	Polymers with acyl-protected perthiol chain termini as convenient building blocks for doubly responsive H₂S-donating nanoparticles. Polymer Chemistry, 2017, 8, 6362-6367.	1.9	18
32	A lipid-anchored neurokinin 1 receptor antagonist prolongs pain relief by a three-pronged mechanism of action targeting the receptor at the plasma membrane and in endosomes. Journal of Biological Chemistry, 2021, 296, 100345.	1.6	17
33	Diverse Roles of TRPV4 in Macrophages: A Need for Unbiased Profiling. Frontiers in Immunology, 2021, 12, 828115.	2.2	16
34	Sustained endosomal release of a neurokinin-1 receptor antagonist from nanostars provides long-lasting relief of chronic pain. Biomaterials, 2022, 285, 121536.	5.7	16
35	Inflammation-induced abnormalities in the subcellular localization and trafficking of the neurokinin 1 receptor in the enteric nervous system. American Journal of Physiology - Renal Physiology, 2015, 309, G248-G259.	1.6	15
36	Mice expressing fluorescent PAR ₂ reveal that endocytosis mediates colonic inflammation and pain. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	14

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37	Localisation and activation of the neurokinin 1 receptor in the enteric nervous system of the mouse distal colon. Cell and Tissue Research, 2014, 356, 319-332.	1.5	11
38	The transient receptor potential vanilloid 4 (TRPV4) ion channel mediates protease activated receptor 1 (PAR1)-induced vascular hyperpermeability. Laboratory Investigation, 2020, 100, 1057-1067.	1.7	11
39	Linker chemistry dictates the delivery of a phototoxic organometallic rhenium(<scp>i</scp>) complex to human cervical cancer cells from core crosslinked star polymer nanoparticles. Journal of Materials Chemistry B, 2018, 6, 7805-7810.	2.9	9
40	Clathrin and GRK2/3 inhibitors block Î´-opioid receptor internalization in myenteric neurons and inhibit neuromuscular transmission in the mouse colon. American Journal of Physiology - Renal Physiology, 2019, 317, G79-G89.	1.6	9
41	Agonist-dependent development of delta opioid receptor tolerance in the colon. Cellular and Molecular Life Sciences, 2019, 76, 3033-3050.	2.4	9
42	Serotonin-induced vascular permeability is mediated by transient receptor potential vanilloid 4 in the airways and upper gastrointestinal tract of mice. Laboratory Investigation, 2021, 101, 851-864.	1.7	8
43	Mini-review: Dissecting receptor-mediated stimulation of TRPV4 in nociceptive and inflammatory pathways. Neuroscience Letters, 2022, 770, 136377.	1.0	8
44	Development of a shapeâ€controlled H 2 S delivery system using epoxideâ€functional nanoparticles. Journal of Polymer Science Part A, 2019, 57, 1982-1993.	2.5	7
45	Positive allosteric modulation of endogenous delta opioid receptor signaling in the enteric nervous system is a potential treatment for gastrointestinal motility disorders. American Journal of Physiology - Renal Physiology, 2022, 322, G66-G78.	1.6	7
46	In silico modeling of the Menkes copper-translocating P-type ATPase 3rd metal binding domain predicts that phosphorylation regulates copper-binding. BioMetals, 2011, 24, 477-487.	1.8	6
47	G protein-coupled receptor trafficking and signaling: new insights into the enteric nervous system. American Journal of Physiology - Renal Physiology, 2019, 316, G446-G452.	1.6	6
48	Demonstration of elevated levels of active cathepsin S in dextran sulfate sodium colitis using a new activatable probe. Neurogastroenterology and Motility, 2015, 27, 1675-1680.	1.6	5
49	New small molecule fluorescent probes for G protein-coupled receptors: valuable tools for drug discovery. Future Medicinal Chemistry, 2021, 13, 63-90.	1.1	4
50	Targeting of Transient Receptor Potential Channels in Digestive Disease. , 2015, , 385-403.		2