Nicholas Andrew Veldhuis

List of Publications by Year
in descending order

50 papers	2,291 citations	293460 24 h-index	252626 46 g-index
52 all docs	52 docs citations	52 times ranked	3541 citing authors

#	Article	IF	Citations
1	Selective G protein signaling driven by substance Pâ€“neurokinin receptor dynamics. Nature Chemical Biology, 2022, 18, 109-115.	3.9	40
2	Mini-review: Dissecting receptor-mediated stimulation of TRPV4 in nociceptive and inflammatory pathways. Neuroscience Letters, 2022, 770, 136377.	1.0	8
3	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
4	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
5	Schwann cell endosome CGRP signals elicit periorbital mechanical allodynia in mice. Nature Communications, 2022, 13, 646.	5.8	57
6	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
7	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
8	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
9	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
10	Diverse Roles of TRPV4 in Macrophages: A Need for Unbiased Profiling. Frontiers in Immunology, 2021, 12, 828115.	2.2	16
11	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
12	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
13	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
14	Cellular Interactions of Liposomes and PISA Nanoparticles during Human Blood Flow in a Microvascular Network. Small, 2020, 16, e2002861.	5.2	67
15	A pH-responsive nanoparticle targets the neurokinin 1 receptor in endosomes to prevent chronic pain. Nature Nanotechnology, 2019, 14, 1150-1159.	15.6	103
16	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
17	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
18	Agonist-dependent development of delta opioid receptor tolerance in the colon. Cellular and Molecular Life Sciences, 2019, 76, 3033-3050.	2.4	9

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19	Rapid Assessment of Nanoparticle Extravasation in a Microfluidic Tumor Model. ACS Applied Nano Materials, 2019, 2, 1844-1856.	2.4	36
20	G-Proteinâ€“Coupled Receptors Are Dynamic Regulators of Digestion and Targets for Digestive Diseases. Gastroenterology, 2019, 156, 1600-1616.	0.6	22
21	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
22	Internalized GPCRs as Potential Therapeutic Targets for the Management of Pain. Frontiers in Molecular Neuroscience, 2019, 12, 273.	1.4	27
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Role of Nonneuronal TRPV4 Signaling in Inflammatory Processes. Advances in Pharmacology, 2017, 79, 117-139.	1.2	22
31	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
32	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
33	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
34	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
35	Targeting of Transient Receptor Potential Channels in Digestive Disease. , 2015, , 385-403.		2
36	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

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37	G Protein-Coupled Receptors: Dynamic Machines for Signaling Pain and Itch. Neuron, 2015, 88, 635-649.	3.8	115
38	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
39	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
40	Cathepsin S Causes Inflammatory Pain via Biased Agonism of PAR2 and TRPV4. Journal of Biological Chemistry, 2014, 289, 27215-27234.	1.6	153
41	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
42	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
43	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
44	N-Glycosylation Determines Ionic Permeability and Desensitization of the TRPV1 Capsaicin Receptor. Journal of Biological Chemistry, 2012, 287, 21765-21772.	1.6	44
45	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
46	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
47	Conservation of copper-transporting P(IB)-type ATPase function. BioMetals, 2010, 23, 681-694.	1.8	22
48	The multi-layered regulation of copper translocating P-type ATPases. BioMetals, 2009, 22, 177-190.	1.8	64
49	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
50	Protein kinase-dependent phosphorylation of the Menkes copper P-type ATPase. Biochemical and Biophysical Research Communications, 2003, 303, 337-342.	1.0	29