

# Beverley Anne Orser

## List of Publications by Year in descending order

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Version: 2024-02-01

118  
papers

6,707  
citations

81889

39  
h-index

64791

79  
g-index

132  
all docs

132  
docs citations

132  
times ranked

5895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perioperative Neurocognitive Screening Tools for At-Risk Surgical Patients. <i>Neurology: Clinical Practice</i> , 2022, 12, 76-84.	1.6	2
2	In reply: Initiatives to support rural access to anesthesia. <i>Canadian Journal of Anaesthesia</i> , 2022, , 1.	1.6	0
3	Before the Next Wave: Reducing Viral Infections Among Health Care Workers Performing Tracheal Intubation. <i>Anesthesia and Analgesia</i> , 2022, 134, e30-e31.	2.2	0
4	Cognitive decline among older adults: A hidden preexisting condition and its role in "brain at risk"™ surgical patients. <i>Brain and Behavior</i> , 2021, 11, e02095.	2.2	2
5	Inhibition of a tonic inhibitory conductance in mouse hippocampal neurones by negative allosteric modulators of $\gamma$ 5 subunit-containing $\gamma$ 3-aminobutyric acid type A receptors: implications for treating cognitive deficits. <i>British Journal of Anaesthesia</i> , 2021, 126, 674-683.	3.4	8
6	Anesthesiology: Resetting Our Sights on Long-term Outcomes: The 2020 John W. Severinghaus Lecture on Translational Science. <i>Anesthesiology</i> , 2021, 135, 18-30.	2.5	3
7	Cognitive Outcomes after DEXmedetomidine sedation in cardiac surgery: CODEX randomised controlled trial protocol. <i>BMJ Open</i> , 2021, 11, e046851.	1.9	3
8	Improving anesthesia care and pain medicine in rural Canada: nothing about us without us. <i>Canadian Journal of Anaesthesia</i> , 2021, 68, 1731-1737.	1.6	5
9	The International Anesthesia Research Society Coronavirus Disease 2019 Pandemic Scientific Advisory Board: Supporting a Pandemic of Positivity. <i>Anesthesia and Analgesia</i> , 2021, 133, 903-905.	2.2	1
10	2020 Severinghaus Lecture on Translational Science: Reply. <i>Anesthesiology</i> , 2021, , .	2.5	0
11	GABAA Receptors in Astrocytes Are Targets for Commonly Used Intravenous and Inhalational General Anesthetic Drugs. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 802582.	3.4	5
12	Perioperative Neurocognitive Disorder. <i>Anesthesiology</i> , 2020, 132, 55-68.	2.5	106
13	Inhibiting $\gamma$ 5 Subunit-Containing $\gamma$ 3-Aminobutyric Acid Type A Receptors Attenuates Cognitive Deficits After Traumatic Brain Injury. <i>Critical Care Medicine</i> , 2020, 48, 533-544.	0.9	10
14	Canada needs a national strategy for anesthesia services in rural and remote regions. <i>Cmaj</i> , 2020, 192, E861-E863.	2.0	21
15	Targeting microglia to mitigate perioperative neurocognitive disorders. <i>British Journal of Anaesthesia</i> , 2020, 125, 229-232.	3.4	10
16	Developing practice guidelines for anesthesia services in rural Canada: the importance of the family physician perspective. <i>Canadian Journal of Anaesthesia</i> , 2020, 67, 1653-1654.	1.6	2
17	In Response. <i>Anesthesia and Analgesia</i> , 2020, 131, e134-e134.	2.2	0
18	Sedating ventilated COVID-19 patients with inhalational anesthetic drugs. <i>EBioMedicine</i> , 2020, 55, 102770.	6.1	14

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19	Global PROMiSe (Perioperative Recommendations for Medication Safety): protocol for a mixed-methods study. <i>BMJ Open</i> , 2020, 10, e038313.	1.9	3
20	Nitrous oxide as a putative novel dual-mechanism treatment for bipolar depression: Proof-of-concept study design and methodology. <i>Contemporary Clinical Trials Communications</i> , 2020, 19, 100600.	1.1	8
21	Locating and repurposing anesthetic machines as intensive care unit ventilators during the COVID-19 pandemic. <i>Canadian Journal of Anaesthesia</i> , 2020, 67, 1066-1067.	1.6	2
22	Recommendations for Endotracheal Intubation of COVID-19 Patients. <i>Anesthesia and Analgesia</i> , 2020, 130, 1109-1110.	2.2	164
23	Towards a Comprehensive Understanding of Anesthetic Mechanisms of Action: A Decade of Discovery. <i>Trends in Pharmacological Sciences</i> , 2019, 40, 464-481.	8.7	156
24	Gabapentin increases expression of $\gamma$ subunit-containing GABAA receptors. <i>EBioMedicine</i> , 2019, 42, 203-213.	6.1	33
25	Predictive factors for sleep apnoea in patients on opioids for chronic pain. <i>BMJ Open Respiratory Research</i> , 2019, 6, e000523.	3.0	23
26	GABAA Receptor Theory of Perioperative Neurocognitive Disorders. <i>Anesthesiology</i> , 2019, 130, 618-619.	2.5	9
27	Musings from an Unlikely Clinicianâ€“Scientist. <i>Anesthesiology</i> , 2019, 131, 795-800.	2.5	1
28	Improving Access to Safe Anesthetic Care in Rural and Remote Communities in Affluent Countries. <i>Anesthesia and Analgesia</i> , 2019, 129, 294-300.	2.2	22
29	Anesthesiology in the 21st century: our science is our destiny. <i>Canadian Journal of Anaesthesia</i> , 2019, 66, 1-13.	1.6	3
30	SmartTots Update Regarding Anesthetic Neurotoxicity in the Developing Brain. <i>Anesthesia and Analgesia</i> , 2018, 126, 1393-1396.	2.2	40
31	Ketamine augmentation for major depressive disorder and suicidal ideation: Preliminary experience in an inpatient psychiatry setting. <i>Journal of Affective Disorders</i> , 2018, 241, 103-109.	4.1	21
32	Recommendations for the nomenclature of cognitive change associated with anaesthesia and surgeryâ€“2018. <i>British Journal of Anaesthesia</i> , 2018, 121, 1005-1012.	3.4	420
33	Dexmedetomidine Prevents Excessive $\gamma$ -Aminobutyric Acid Type A Receptor Function after Anesthesia. <i>Anesthesiology</i> , 2018, 129, 477-489.	2.5	44
34	High Concentrations of Tranexamic Acid Inhibit Ionotropic Glutamate Receptors. <i>Anesthesiology</i> , 2017, 127, 89-97.	2.5	11
35	Ketamine Increases the Function of $\gamma$ -Aminobutyric Acid Type A Receptors in Hippocampal and Cortical Neurons. <i>Anesthesiology</i> , 2017, 126, 666-677.	2.5	43
36	Preventing delirium: beyond dexmedetomidine. <i>Lancet, The</i> , 2017, 389, 1009.	13.7	5

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37	Reduced expression of $\alpha 5$ GABA <sub>A</sub> receptors elicits autism-like alterations in EEG patterns and sleep-wake behavior. <i>Neurotoxicology and Teratology</i> , 2017, 61, 115-122.	2.4	19
38	$\alpha 5$ GABA <sub>A</sub> Receptors Mediate Tonic Inhibition in the Spinal Cord Dorsal Horn and Contribute to the Resolution Of Hyperalgesia. <i>Journal of Neuroscience Research</i> , 2017, 95, 1307-1318.	2.9	27
39	$\alpha 5$ -Subunit Containing GABA <sub>A</sub> Receptors Modulate Respiratory Networks. <i>Scientific Reports</i> , 2017, 7, 18105.	3.3	5
40	Sex-Dependent Anti-Stress Effect of an $\alpha 5$ Subunit Containing GABA <sub>A</sub> Receptor Positive Allosteric Modulator. <i>Frontiers in Pharmacology</i> , 2016, 7, 446.	3.5	60
41	Perioperative Medication Errors. <i>Anesthesiology</i> , 2016, 124, 1-3.	2.5	30
42	P311: Do Postanesthetic Memory Deficits and Alzheimer's Disease Share A Common Signaling Pathway?. <i>Alzheimer's and Dementia</i> , 2016, 12, P861.	0.8	0
43	The GAS trial. <i>Lancet, The</i> , 2016, 387, 1613-1614.	13.7	0
44	Single and repeated exposures to the volatile anesthetic isoflurane do not impair operant performance in aged rats. <i>NeuroToxicology</i> , 2016, 56, 159-169.	3.0	7
45	Tranexamic acid-associated seizures: Causes and treatment. <i>Annals of Neurology</i> , 2016, 79, 18-26.	5.3	196
46	$\alpha 5$ GABA <sub>A</sub> Receptors Are Necessary for Synaptic Plasticity in the Hippocampus: Implications for Memory Behavior. <i>Anesthesia and Analgesia</i> , 2016, 123, 1247-1252.	2.2	15
47	$\alpha 5$ GABA <sub>A</sub> receptor deficiency causes autism-like behaviors. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 392-398.	3.7	43
48	Unlocking the Mechanisms of Anesthesia. <i>Anesthesia and Analgesia</i> , 2016, 123, 1070-1071.	2.2	1
49	In Reply. <i>Anesthesiology</i> , 2016, 125, 604-605.	2.5	0
50	Anesthesia research training: preparing for the future of our speciality. <i>Canadian Journal of Anaesthesia</i> , 2016, 63, 633-634.	1.6	2
51	Inflammation Increases Neuronal Sensitivity to General Anesthetics. <i>Anesthesiology</i> , 2016, 124, 417-427.	2.5	35
52	Managing Ebola. <i>Anesthesia and Analgesia</i> , 2015, 121, 834-835.	2.2	6
53	Understanding Anesthesia-Induced Memory Loss. , 2015, , 847-858.		1
54	$\alpha 6$ -Containing GABA <sub>A</sub> Receptors Are the Principal Mediators of Inhibitory Synapse Strengthening by Insulin in Cerebellar Granule Cells. <i>Journal of Neuroscience</i> , 2015, 35, 9676-9688.	3.6	25

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55	Altered expression of $\gamma$ -GABA <sub>A</sub> receptors in health and disease. <i>Neuropharmacology</i> , 2015, 88, 24-35.	4.1	63
56	Thalamic $\gamma$ -Subunit Containing GABA <sub>A</sub> Receptors Promote Electrocardial Signatures of Deep Non-REM Sleep But Do Not Mediate the Effects of Etomidate at the Thalamus <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2014, 34, 12253-12266.	3.6	24
57	Repeated intermittent alcohol exposure during the third trimester-equivalent increases expression of the GABA <sub>A</sub> receptor $\gamma$ -subunit in cerebellar granule neurons and delays motor development in rats. <i>Neuropharmacology</i> , 2014, 79, 262-274.	4.1	28
58	Hydrogen Peroxide Increases GABA <sub>A</sub> Receptor-Mediated Tonic Current in Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 10624-10634.	3.6	25
59	Sustained increase in $\gamma$ -5GABA <sub>A</sub> receptor function impairs memory after anesthesia. <i>Journal of Clinical Investigation</i> , 2014, 124, 5437-5441.	8.2	140
60	Gabapentin reduces preoperative anxiety and pain catastrophizing in highly anxious patients prior to major surgery: a blinded randomized placebo-controlled trial. <i>Canadian Journal of Anaesthesia</i> , 2013, 60, 432-443.	1.6	46
61	Review article: Improving drug safety for patients undergoing anesthesia and surgery. <i>Canadian Journal of Anaesthesia</i> , 2013, 60, 127-135.	1.6	32
62	$\beta$ -Aminobutyric acid type A receptors that contain the $\gamma$ -subunit promote memory and neurogenesis in the dentate gyrus. <i>Annals of Neurology</i> , 2013, 74, 611-621.	5.3	40
63	Acutely increasing $\gamma$ -GABA <sub>A</sub> receptor activity impairs memory and inhibits synaptic plasticity in the hippocampus. <i>Frontiers in Neural Circuits</i> , 2013, 7, 146.	2.8	43
64	Hyperpolarization-Activated Current (I <sub>h</sub> ) Is Reduced in Hippocampal Neurons from <i>Gabra5</i> <sup>-/-</sup> Mice. <i>PLoS ONE</i> , 2013, 8, e58679.	2.5	23
65	Inhibition of $\gamma$ -5 $\beta$ -Aminobutyric Acid Type A Receptors Restores Recognition Memory After General Anesthesia. <i>Anesthesia and Analgesia</i> , 2012, 114, 845-855.	2.2	66
66	Memory Deficits Induced by Inflammation Are Regulated by $\gamma$ -5-Subunit-Containing GABA <sub>A</sub> Receptors. <i>Cell Reports</i> , 2012, 2, 488-496.	6.4	147
67	Canadian Anesthesiologists' Society 2011 Royal College Lecture: Anesthesiology: A Profession at a Crossroads. <i>Canadian Journal of Anaesthesia</i> , 2012, 59, 882-888.	1.6	0
68	Tranexamic acid concentrations associated with human seizures inhibit glycine receptors. <i>Journal of Clinical Investigation</i> , 2012, 122, 4654-4666.	8.2	151
69	Sleep and Anesthesia: Neural Correlates in Theory and Experiment. <i>Canadian Journal of Anaesthesia</i> , 2012, 59, 236-237.	1.6	2
70	The sedative but not the memory-blocking properties of ethanol are modulated by $\gamma$ -5-subunit-containing $\beta$ -aminobutyric acid type A receptors. <i>Behavioural Brain Research</i> , 2011, 217, 379-385.	2.2	10
71	Intraoperative Awareness. <i>Anesthesiology</i> , 2011, 114, 1218-1233.	2.5	89
72	Pharmacological enhancement of $\gamma$ -subunit-containing GABA <sub>A</sub> receptors that generate a tonic inhibitory conductance in spinal neurons attenuates acute nociception in mice. <i>Pain</i> , 2011, 152, 1317-1326.	4.2	60

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73	Inhibition de l'apprentissage et de la mémoire par les anesthésiques généraux. Canadian Journal of Anaesthesia, 2011, 58, 167-177.	1.6	48
74	Mechanisms of anesthesia: past, present, and a glimpse into the future. Canadian Journal of Anaesthesia, 2011, 58, 131-138.	1.6	3
75	An anti-coagulation agent Futhan preferentially targets GABA(A) receptors in lung epithelia: implication in treating asthma. International Journal of Physiology, Pathophysiology and Pharmacology, 2011, 3, 249-56.	0.8	4
76	$\hat{1}\pm 5$ GABA <sub>A</sub> Receptor Activity Sets the Threshold for Long-Term Potentiation and Constrains Hippocampus-Dependent Memory. Journal of Neuroscience, 2010, 30, 5269-5282.	3.6	156
77	$\hat{1}\pm 5$ Subunit-containing GABAA receptors mediate a slowly decaying inhibitory synaptic current in CA1 pyramidal neurons following Schaffer collateral activation. Neuropharmacology, 2010, 58, 668-675.	4.1	44
78	Short-term Memory Impairment after Isoflurane in Mice Is Prevented by the $\hat{1}\pm 5$ $\hat{1}\pm 3$ -Aminobutyric Acid Type A Receptor Inverse Agonist L-655,708. Anesthesiology, 2010, 113, 1061-1071.	2.5	99
79	The physiological properties and therapeutic potential of $\hat{1}\pm 5$ -GABAA receptors. Biochemical Society Transactions, 2009, 37, 1334-1337.	3.4	32
80	Distinct properties of murine $\hat{1}\pm 5$ $\hat{1}\pm 3$ -aminobutyric acid type a receptors revealed by biochemical fractionation and mass spectroscopy. Journal of Neuroscience Research, 2009, 87, 1737-1747.	2.9	22
81	Silence, power and communication in the operating room. Journal of Advanced Nursing, 2009, 65, 1390-1399.	3.3	104
82	Etomidate Targets $\hat{1}\pm 5$ $\hat{1}\pm 3$ -Aminobutyric Acid Subtype A Receptors to Regulate Synaptic Plasticity and Memory Blockade. Anesthesiology, 2009, 111, 1025-1035.	2.5	83
83	GABAA receptor subtypes underlying general anesthesia. Pharmacology Biochemistry and Behavior, 2008, 90, 105-112.	2.9	84
84	Awareness during anesthesia. Cmaj, 2008, 178, 185-188.	2.0	51
85	Medication Safety in the Operating Room: Teaming Up to Improve Patient Safety. Healthcare Quarterly, 2008, 11, 54-57.	0.7	12
86	Insulin Increases the Potency of Glycine at Ionotropic Glycine Receptors. Molecular Pharmacology, 2007, 71, 1277-1287.	2.3	18
87	$\hat{1}\pm 5$ GABA <sub>A</sub> Receptors Regulate the Intrinsic Excitability of Mouse Hippocampal Pyramidal Neurons. Journal of Neurophysiology, 2007, 98, 2244-2254.	1.8	109
88	A GABAergic system in airway epithelium is essential for mucus overproduction in asthma. Nature Medicine, 2007, 13, 862-867.	30.7	174
89	Lifting the Fog around Anesthesia. Scientific American, 2007, 296, 54-61.	1.0	31
90	Extrasynaptic GABA <sub>A</sub> Receptors Are Critical Targets for Sedative-Hypnotic Drugs. Journal of Clinical Sleep Medicine, 2006, 02, .	2.6	56

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91	Gabapentin Increases a Tonic Inhibitory Conductance in Hippocampal Pyramidal Neurons. <i>Anesthesiology</i> , 2006, 105, 325-333.	2.5	19
92	Intubation of SARS patients: infection and perspectives of healthcare workers. <i>Canadian Journal of Anaesthesia</i> , 2006, 53, 122-129.	1.6	101
93	Drug safety in Canada: 2 steps forward, 1 step back. <i>Cmaj</i> , 2006, 174, 66-66.	2.0	1
94	Î5GABAA Receptors Mediate the Amnestic But Not Sedative-Hypnotic Effects of the General Anesthetic Etomidate. <i>Journal of Neuroscience</i> , 2006, 26, 3713-3720.	3.6	219
95	Extrasynaptic GABAA receptors are critical targets for sedative-hypnotic drugs. <i>Journal of Clinical Sleep Medicine</i> , 2006, 2, S12-8.	2.6	39
96	The Î±5 GABAA receptor subunit confers resistance to isoflurane inhibition. <i>International Congress Series</i> , 2005, 1283, 189-192.	0.2	0
97	Anesthetic sensitivity is reduced in hippocampal pyramidal neurons from GABAA receptor Î±5 subunit null mutant mice. <i>International Congress Series</i> , 2005, 1283, 38-42.	0.2	0
98	Emerging molecular mechanisms of general anesthetic action. <i>Trends in Pharmacological Sciences</i> , 2005, 26, 503-510.	8.7	487
99	Selective Enhancement of Tonic GABAergic Inhibition in Murine Hippocampal Neurons by Low Concentrations of the Volatile Anesthetic Isoflurane. <i>Journal of Neuroscience</i> , 2004, 24, 8454-8458.	3.6	153
100	Anesthesia-related medication error: time to take action. <i>Canadian Journal of Anaesthesia</i> , 2004, 51, 756-760.	1.6	34
101	Tonic inhibition in mouse hippocampal CA1 pyramidal neurons is mediated by Î±5 subunit-containing Î±-aminobutyric acid type A receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 3662-3667.	7.1	510
102	Tonically Activated GABAA Receptors in Hippocampal Neurons Are High-Affinity, Low-Conductance Sensors for Extracellular GABA. <i>Molecular Pharmacology</i> , 2003, 63, 2-8.	2.3	164
103	Desensitization of Î±-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptors Facilitates Use-Dependent Inhibition by Pentobarbital. <i>Molecular Pharmacology</i> , 2003, 64, 395-406.	2.3	17
104	Inhaled Anesthetics and Immobility: Mechanisms, Mysteries, and Minimum Alveolar Anesthetic Concentration. <i>Anesthesia and Analgesia</i> , 2003, 97, 718-740.	2.2	265
105	Mechanisms of general anesthesia. <i>Current Opinion in Anaesthesiology</i> , 2002, 15, 427-433.	2.0	28
106	New opportunities for anesthesia research in Canada. <i>Canadian Journal of Anaesthesia</i> , 2002, 49, 895-899.	1.6	8
107	Tyrosine kinases enhance the function of glycine receptors in rat hippocampal neurons and human Î±1 Î²2 glycine receptors. <i>Journal of Physiology</i> , 2002, 539, 495-502.	2.9	25
108	Reply. <i>Canadian Journal of Anaesthesia</i> , 2001, 48, 614-614.	1.6	0

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109	Medication errors in anesthetic practice: a survey of 687 practitioners. Canadian Journal of Anaesthesia, 2001, 48, 139-146.	1.6	171
110	Propofol-benzodiazepine interactions: insights from a "bench to bedside" approach. Canadian Journal of Anaesthesia, 2001, 48, 431-434.	1.6	7
111	Distinct Functional and Pharmacological Properties of Tonic and Quantal Inhibitory Postsynaptic Currents Mediated by $\gamma$ -Aminobutyric Acid <sub>A</sub> Receptors in Hippocampal Neurons. Molecular Pharmacology, 2001, 59, 814-824.	2.3	335
112	Medication safety in anesthetic practice: first do no harm. Canadian Journal of Anaesthesia, 2000, 47, 1051-1054.	1.6	24
113	Multiple sites of action of neomycin, Mg <sup>2+</sup> and spermine on the NMDA receptors of rat hippocampal CA1 pyramidal neurones. Journal of Physiology, 1998, 512, 29-46.	2.9	26
114	Magnesium deficiency increases ketamine sensitivity in rats. Canadian Journal of Anaesthesia, 1997, 44, 883-890.	1.6	17
115	Medication labels: for whose benefit?. Canadian Journal of Anaesthesia, 1996, 43, 194-195.	1.6	3
116	Inhibition by propofol (2,6-diisopropylphenol) of the N-methyl-D-aspartate subtype of glutamate receptor in cultured hippocampal neurones. British Journal of Pharmacology, 1995, 116, 1761-1768.	5.4	209
117	An anaesthetic drug error: minimizing the risk. Canadian Journal of Anaesthesia, 1994, 41, 120-124.	1.6	47
118	Propranolol protection from bupivacaine toxicity. Canadian Journal of Anaesthesia, 1992, 39, 407-408.	1.6	3