

# LuÃ-s M Antunes

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

1,352  
citations

304743

22  
h-index

395702

33  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ketamine induction of p53-dependent apoptosis and oxidative stress in zebrafish ( <i>Danio rerio</i> ) embryos. <i>Chemosphere</i> , 2018, 201, 730-739.	8.2	66
2	Comparison of Anesthetic Depth Indexes Based on Thalamocortical Local Field Potentials in Rats. <i>Anesthesiology</i> , 2010, 112, 355-363.	2.5	61
3	Ketamine NMDA receptor-independent toxicity during zebrafish ( <i>Danio rerio</i> ) embryonic development. <i>Neurotoxicology and Teratology</i> , 2014, 41, 27-34.	2.4	59
4	Lower Isoflurane Concentration Affects Spatial Learning and Neurodegeneration in Adult Mice Compared with Higher Concentrations. <i>Anesthesiology</i> , 2010, 113, 1099-1108.	2.5	53
5	Acute Ketamine Impairs Mitochondrial Function and Promotes Superoxide Dismutase Activity in the Rat Brain. <i>Anesthesia and Analgesia</i> , 2015, 120, 320-328.	2.2	48
6	A New Anaesthetic Protocol for Adult Zebrafish ( <i>Danio rerio</i> ): Propofol Combined with Lidocaine. <i>PLoS ONE</i> , 2016, 11, e0147747.	2.5	46
7	Ketamine-induced oxidative stress at different developmental stages of zebrafish ( <i>Danio rerio</i> ) embryos. <i>RSC Advances</i> , 2016, 6, 61254-61266.	3.6	45
8	Anaesthesia with ketamine/medetomidine in the rabbit: influence of route of administration and the effect of combination with butorphanol. <i>Veterinary Anaesthesia and Analgesia</i> , 2002, 29, 14-19.	0.6	44
9	Morphological and behavioral responses of zebrafish after 24 h of ketamine embryonic exposure. <i>Toxicology and Applied Pharmacology</i> , 2017, 321, 27-36.	2.8	41
10	Behavioral alterations of zebrafish larvae after early embryonic exposure to ketamine. <i>Psychopharmacology</i> , 2017, 234, 549-558.	3.1	41
11	Potential effects of sulforaphane to fight obesity. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 2837-2844.	3.5	41
12	Anaesthesia and analgesia in laboratory adult zebrafish: a question of refinement. <i>Laboratory Animals</i> , 2016, 50, 476-488.	1.0	40
13	Intraperitoneal anaesthesia with propofol, medetomidine and fentanyl in mice. <i>Laboratory Animals</i> , 2009, 43, 27-33.	1.0	36
14	Evaluation of anaesthetic protocols for laboratory adult zebrafish ( <i>Danio rerio</i> ). <i>PLoS ONE</i> , 2018, 13, e0197846.	2.5	34
15	Anaesthetics and analgesics used in adult fish for research: A review. <i>Laboratory Animals</i> , 2019, 53, 325-341.	1.0	34
16	Performance of Anesthetic Depth Indexes in Rabbits under Propofol Anesthesia. <i>Anesthesiology</i> , 2011, 115, 303-314.	2.5	34
17	Assessment of ketamine/medetomidine anaesthesia in the New Zealand White rabbit. <i>Veterinary Anaesthesia and Analgesia</i> , 2001, 28, 18-25.	0.6	33
18	Embryonic Stage-Dependent Teratogenicity of Ketamine in Zebrafish ( <i>Danio rerio</i> ). <i>Chemical Research in Toxicology</i> , 2016, 29, 1298-1309.	3.3	32

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19	Intraperitoneal propofol and propofol fentanyl, sufentanil and remifentanil combinations for mouse anaesthesia. <i>Laboratory Animals</i> , 2007, 41, 329-336.	1.0	31
20	Clinically relevant concentrations of ketamine mainly affect long-term potentiation rather than basal excitatory synaptic transmission and do not change paired-pulse facilitation in mouse hippocampal slices. <i>Brain Research</i> , 2014, 1560, 10-17.	2.2	26
21	Euthanasia using gaseous agents in laboratory rodents. <i>Laboratory Animals</i> , 2016, 50, 241-253.	1.0	26
22	Performance of electroencephalogram-derived parameters in prediction of depth of anaesthesia in a rabbit model. <i>British Journal of Anaesthesia</i> , 2011, 106, 540-547.	3.4	24
23	Effects of different propofol infusion rates on EEG activity and AEP responses in rats. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2003, 26, 369-376.	1.3	22
24	Correlation between clinical signs of depth of anaesthesia and cerebral state index responses in dogs during induction of anaesthesia with propofol. <i>Research in Veterinary Science</i> , 2009, 87, 287-291.	1.9	20
25	The effect of a remifentanil bolus on the bispectral index of the EEG (BIS) in anaesthetized patients independently from intubation and surgical stimuli. <i>European Journal of Anaesthesiology</i> , 2006, 23, 305-310.	1.7	19
26	Electroencephalogram-based anaesthetic depth monitoring in laboratory animals. <i>Laboratory Animals</i> , 2012, 46, 85-94.	1.0	19
27	Chronic ketamine administration impairs mitochondrial complex I in the rat liver. <i>Life Sciences</i> , 2013, 93, 464-470.	4.3	19
28	Are fentanyl and remifentanil safe opioids for rat brain mitochondrial bioenergetics?. <i>Mitochondrion</i> , 2009, 9, 247-253.	3.4	18
29	Clinical Variables Related to Propofol Effect-Site Concentrations at Recovery of Consciousness After Neurosurgical Procedures. <i>Journal of Neurosurgical Anesthesiology</i> , 2005, 17, 110-114.	1.2	17
30	Mice aversion to sevoflurane, isoflurane and carbon dioxide using an approach-avoidance task. <i>Applied Animal Behaviour Science</i> , 2017, 189, 91-97.	1.9	17
31	MS-222 short exposure induces developmental and behavioural alterations in zebrafish embryos. <i>Reproductive Toxicology</i> , 2018, 81, 122-131.	2.9	17
32	Individual effect-site concentrations of propofol at return of consciousness are related to the concentrations at loss of consciousness and age in neurosurgical patients. <i>Journal of Clinical Anesthesia</i> , 2009, 21, 3-8.	1.6	15
33	<i>Laurus nobilis</i> (laurel) aqueous leaf extract's toxicological and anti-tumor activities in HPV16-transgenic mice. <i>Food and Function</i> , 2018, 9, 4419-4428.	4.6	15
34	Review on the use of zebrafish embryos to study the effects of anesthetics during early development. <i>Critical Reviews in Toxicology</i> , 2019, 49, 357-370.	3.9	15
35	Brain monitoring in dogs using the cerebral state index during the induction of anaesthesia via target-controlled infusion of propofol. <i>Research in Veterinary Science</i> , 2008, 85, 227-232.	1.9	14
36	Apoptosis-related genes induced in response to ketamine during early life stages of zebrafish. <i>Toxicology Letters</i> , 2017, 279, 1-8.	0.8	14

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37	Murine Models of Obesity. <i>Obesities</i> , 2022, 2, 127-147.	0.8	14
38	A single intraperitoneal injection of ketamine does not affect spatial working, reference memory or neurodegeneration in adult mice. <i>European Journal of Anaesthesiology</i> , 2013, 30, 618-626.	1.7	12
39	MS-222 induces biochemical and transcriptional changes related to oxidative stress, cell proliferation and apoptosis in zebrafish embryos. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020, 237, 108834.	2.6	12
40	Malformations and mortality in zebrafish early stages associated with elevated caspase activity after 24h exposure to MS-222. <i>Toxicology and Applied Pharmacology</i> , 2021, 412, 115385.	2.8	11
41	Evaluation of auditory evoked potentials to predict depth of anaesthesia during fentanyl/fluanisone/midazolam anaesthesia in rats. <i>Veterinary Anaesthesia and Analgesia</i> , 2001, 28, 196-203.	0.6	10
42	Excitatory effects of fentanyl upon the rat electroencephalogram and auditory-evoked potential responses during anaesthesia. <i>European Journal of Anaesthesiology</i> , 2003, 20, 800-808.	1.7	9
43	The memory stages of a spatial Y-maze task are not affected by a low dose of ketamine/midazolam. <i>European Journal of Pharmacology</i> , 2013, 712, 39-47.	3.5	9
44	The anaesthetic combination of ketamine/midazolam does not alter the acquisition of spatial and motor tasks in adult mice. <i>Laboratory Animals</i> , 2013, 47, 19-25.	1.0	9
45	Ketamine alone or combined with midazolam or dexmedetomidine does not affect anxiety-like behaviours and memory in adult Wistar rats. <i>Laboratory Animals</i> , 2017, 51, 147-159.	1.0	9
46	MODELLING DRUGS' PHARMACODYNAMIC INTERACTION DURING GENERAL ANAESTHESIA: THE CHOICE OF PHARMACOKINETIC MODEL. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006, 39, 447-452.	0.4	8
47	Brain tumors may alter the relationship between bispectral index values and propofol concentrations during induction of anesthesia. <i>Journal of Clinical Anesthesia</i> , 2008, 20, 116-121.	1.6	8
48	Effects of depth of isoflurane anaesthesia on a cognition task in mice. <i>British Journal of Anaesthesia</i> , 2008, 101, 434-435.	3.4	8
49	Correlation between clinical signs of depth of anaesthesia and cerebral state index responses in dogs with different target-controlled infusions of propofol. <i>Veterinary Anaesthesia and Analgesia</i> , 2012, 39, 21-28.	0.6	8
50	Propofol affinity to mitochondrial membranes does not alter mitochondrial function. <i>European Journal of Pharmacology</i> , 2017, 803, 48-56.	3.5	8
51	Implementation of Human Endpoints in a Urinary Bladder Carcinogenesis Study in Rats. <i>In Vivo</i> , 2017, 31, 1073-1080.	1.3	8
52	Effect of a Sub-Chronic Oral Exposure of Broccoli ( <i>Brassica oleracea</i> L. Var. <i>Italica</i> ) By-Products Flour on the Physiological Parameters of FVB/N Mice: A Pilot Study. <i>Foods</i> , 2022, 11, 120.	4.3	8
53	In vivo study of hepatic oxidative stress and mitochondrial function in rabbits with severe hypotension after propofol prolonged infusion. <i>SpringerPlus</i> , 2016, 5, 1349.	1.2	7
54	Evidence of Different Propofol Pharmacokinetics under Short and Prolonged Infusion Times in Rabbits. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2016, 118, 421-431.	2.5	6

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55	Parasympathetic Tone Activity Evaluation to Discriminate Ketorolac and Ketorolac/Tramadol Analgesia Level in Swine. <i>Anesthesia and Analgesia</i> , 2019, 129, 882-889.	2.2	6
56	Dogs mean arterial pressure and heart rate responses during high propofol plasma concentrations estimated by a pharmacokinetic model. <i>Research in Veterinary Science</i> , 2011, 91, 278-280.	1.9	5
57	Apoptotic neurodegeneration and spatial memory are not affected by sedative and anaesthetics doses of ketamine/medetomidine combinations in adult mice. <i>British Journal of Anaesthesia</i> , 2012, 108, 807-814.	3.4	5
58	Hippocampal long-term potentiation in adult mice after recovery from ketamine anesthesia. <i>Lab Animal</i> , 2014, 43, 353-357.	0.4	5
59	Propofol and Remifentanyl Pharmacokinetics/Pharmacodynamics During Induction May Predict Recovery of Anesthesia. <i>Journal of Neurosurgical Anesthesiology</i> , 2005, 17, 252-253.	1.2	4
60	Synchronization Software for Automation in Anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 5298-301.	0.5	4
61	Expression of CYP1A1 and CYP1A2 in the liver and kidney of rabbits after prolonged infusion of propofol. <i>Experimental and Toxicologic Pathology</i> , 2016, 68, 521-531.	2.1	4
62	Refinement of Animal Model of Colorectal Carcinogenesis through the Definition of Novel Humane Endpoints. <i>Animals</i> , 2021, 11, 985.	2.3	4
63	Obesity Rodent Models Applied to Research with Food Products and Natural Compounds. <i>Obesities</i> , 2022, 2, 171-204.	0.8	4
64	The Effects of Different Concentrations of the $\hat{\pm}2$ -Adrenoceptor Agonist Medetomidine on Basal Excitatory Synaptic Transmission and Synaptic Plasticity in Hippocampal Slices of Adult Mice. <i>Anesthesia and Analgesia</i> , 2015, 120, 1130-1137.	2.2	3
65	Propofol Predicted Effect Concentrations at Loss of Consciousness are Strongly Correlated with Predicted Concentrations at Recovery of Consciousness. <i>Journal of Neurosurgical Anesthesiology</i> , 2004, 16, 342-343.	1.2	2
66	Controlling the hypnotic drug (propofol) to maintain a stable depth of anesthesia, in dogs. , 2014, , .		2
67	Development of a respiratory rate monitoring device for mice anesthesia induction chamber. , 2014, , .		2
68	Recreational Use of Ketamine and Its Interaction with NMDA Receptors. , 2016, , 672-680.		1
69	In Response. <i>Anesthesia and Analgesia</i> , 2016, 122, 918-920.	2.2	1
70	Radial basis function neural networks versus fuzzy models to predict return of consciousness after general anesthesia. , 2004, 2004, 865-8.		0
71	Nonlinear Modeling of Cerebral State Index in Dogs. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 537-40.	0.5	0
72	EMG contributes to improve Cerebral State Index modeling in dogs anesthesia. , 2011, 2011, 6593-6.		0

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73	Importance of Body Temperature and Clinical Data in Behavioral and Anesthesia Studies. Anesthesiology, 2012, 116, 226-227.	2.5	0