# Astrid G Stucke

List of Publications by Year
in descending order

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| 66 | 617 | 623734 | 677142 |
|---|---|---|---|
| papers | citations | 14 h-index | 22 g-index |

| 67 | 67 | 67 | 341 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Pontine Î¼-opioid receptors mediate bradypnea caused by intravenous remifentanil infusions at clinically relevant concentrations in dogs. Journal of Neurophysiology, 2012, 108, 2430-2441. | 1.8 | 71 |
| 2 | Clinically Relevant Infusion Rates of Î¼-Opioid Agonist Remifentanil Cause Bradypnea in Decerebrate Dogs but not Via Direct Effects in the pre-BÃ¶tzinger Complex Region. Journal of Neurophysiology, 2010, 103, 409-418. | 1.8 | 55 |
| 3 | Opioid-induced Respiratory Depression Is Only Partially Mediated by the preBÃ¶tzinger Complex in Young and Adult RabbitsIn Vivo. Anesthesiology, 2015, 122, 1288-1298. | 2.5 | 48 |
| 4 | A Subregion of the Parabrachial Nucleus Partially Mediates Respiratory Rate Depression from Intravenous Remifentanil in Young and Adult Rabbits. Anesthesiology, 2017, 127, 502-514. | 2.5 | 41 |
| 5 | Characteristics of breathing rate control mediated by a subregion within the pontine parabrachial complex. Journal of Neurophysiology, 2017, 117, 1030-1042. | 1.8 | 36 |
| 6 | Inputs to medullary respiratory neurons from a pontine subregion that controls breathing frequency. Respiratory Physiology and Neurobiology, 2019, 265, 127-140. | 1.6 | 26 |
| 7 | Endogenous glutamatergic inputs to the Parabrachial Nucleus/KÃ¶lliker-Fuse Complex determine respiratory rate. Respiratory Physiology and Neurobiology, 2020, 277, 103401. | 1.6 | 26 |
| 8 | Effects of Halothane and Sevoflurane on Inhibitory Neurotransmission to Medullary Expiratory Neurons in a Decerebrate Dog Model. Anesthesiology, 2002, 96, 955-962. | 2.5 | 25 |
| 9 | Opioid Receptors on Bulbospinal Respiratory Neurons Are Not Activated During Neuronal Depression by Clinically Relevant Opioid Concentrations. Journal of Neurophysiology, 2008, 100, 2878-2888. | 1.8 | 25 |
| 10 | Multi-Level Regulation of Opioid-Induced Respiratory Depression. Physiology, 2020, 35, 391-404. | 3.1 | 23 |
| 11 | Sevoflurane Enhances Î³-Aminobutyric Acid Type A Receptor Function and Overall Inhibition of Inspiratory Premotor Neurons in a Decerebrate Dog Model. Anesthesiology, 2005, 103, 57-64. | 2.5 | 20 |
| 12 | Sevoflurane Depresses Glutamatergic Neurotransmission to Brainstem Inspiratory Premotor Neurons but Not Postsynaptic Receptor Function in a Decerebrate Dog Model. Anesthesiology, 2005, 103, 50-56. | 2.5 | 18 |
| 13 | The contribution of endogenous glutamatergic input in the ventral respiratory column to respiratory rhythm. Respiratory Physiology and Neurobiology, 2019, 260, 37-52. | 1.6 | 17 |
| 14 | Dose-dependent Respiratory Depression by Remifentanil in the Rabbit Parabrachial Nucleus/KÃ¶likerâ€“Fuse Complex and Pre-BÃ¶tzinger Complex. Anesthesiology, 2021, 135, 649-672. | 2.5 | 17 |
| 15 | The effect of caudal vs intravenous morphine on early extubation and postoperative analgesic requirements for stage 2 and 3 singleâ€ventricle palliation: a double blind randomized trial. Paediatric Anaesthesia, 2011, 21, 441-453. | 1.1 | 16 |
| 16 | Effects of Anesthetics, Sedatives, and Opioids on Ventilatory Control. , 2012, 2, 2281-2367. | | 15 |
| 17 | Anesthetic effects on synaptic transmission and gain control in respiratory control. Respiratory Physiology and Neurobiology, 2008, 164, 151-159. | 1.6 | 13 |
| 18 | Isoflurane Depresses the Response of Inspiratory Hypoglossal Motoneurons to Serotonin In VivoÂ. Anesthesiology, 2007, 106, 736-745. | 2.5 | 13 |

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|---|---|---|---|
| 19 | Hemoglobin M (Milwaukee) Affects Arterial Oxygen Saturation and Makes Pulse Oximetry Unreliable. Anesthesiology, 2006, 104, 887-888. | 2.5 | 12 |
| 20 | Contribution of the caudal medullary raphe to opioid induced respiratory depression. Respiratory Physiology and Neurobiology, 2022, 299, 103855. | 1.6 | 12 |
| 21 | Automatic classification of canine PRG neuronal discharge patterns using K-means clustering. Respiratory Physiology and Neurobiology, 2015, 207, 28-39. | 1.6 | 10 |
| 22 | Activation of 5-HT1A receptors in the preBÃ¶tzinger region has little impact on the respiratory pattern. Respiratory Physiology and Neurobiology, 2015, 212-214, 9-19. | 1.6 | 9 |
| 23 | Halothane Depresses Glutamatergic Neurotransmission to Brain Stem Inspiratory Premotor Neurons in a Decerebrate Dog Model. Anesthesiology, 2003, 98, 897-905. | 2.5 | 8 |
| 24 | Major Components of Endogenous Neurotransmission Underlying the Discharge Activity of Hypoglossal Motoneurons in vivo. Advances in Experimental Medicine and Biology, 2008, 605, 279-284. | 1.6 | 8 |
| 25 | Evaluation of visible diffuse reflectance spectroscopy in liver tissue: validation of tissue saturations using extracorporeal circulation. Journal of Biomedical Optics, 2021, 26, . | 2.6 | 7 |
| 26 | Halothane Enhances Î³-Aminobutyric Acid Receptor Type A Function but Does Not Change Overall Inhibition in Inspiratory Premotor Neurons in a Decerebrate Dog Model. Anesthesiology, 2003, 99, 1303-1312. | 2.5 | 6 |
| 27 | Role of Inhibitory Neurotransmission in the Control of Canine Hypoglossal Motoneuron Activity In Vivo. Journal of Neurophysiology, 2009, 101, 1211-1221. | 1.8 | 6 |
| 28 | Perioperative opiate requirements in children with previous opiate infusion. Paediatric Anaesthesia, 2012, 22, 203-208. | 1.1 | 5 |
| 29 | Anesthesia for children with complete trisomy 18 (Edwards syndrome): A cohort review of 84 anesthesia encounters in nine patients. Paediatric Anaesthesia, 2021, 31, 419-428. | 1.1 | 5 |
| 30 | Interaction between the pulmonary stretch receptor and pontine control of expiratory duration. Respiratory Physiology and Neurobiology, 2021, 293, 103715. | 1.6 | 4 |
| 31 | Retrieving multiple magnetic foreign bodies from the glottic entrance and stomach: A case report. Saudi Journal of Anaesthesia, 2021, 15, 56. | 0.7 | 4 |
| 32 | Droperidol Transiently Prolongs the QT Interval in Children Undergoing Single Ventricle Palliation. Pediatric Cardiology, 2015, 36, 196-204. | 1.3 | 3 |
| 33 | Can we tell emergence agitation from pain? Comment on Bortone et al.: the effect of fentanyl and clonidine on early postoperative negative behavior in children. Paediatric Anaesthesia, 2014, 24, 1114-1114. | 1.1 | 2 |
| 34 | Neurons in a Subregion of the Medial Parabrachial Nucleus (mPBN) Attenuate the Gain of the Heringâ€Breuer (Hâ€B) Reflex. FASEB Journal, 2018, 32, 893.1. | 0.5 | 2 |
| 35 | Neurons in the Pontine Medial Parabrachial (PB) Region Play a Key Role In the Control of Breathing Frequency. FASEB Journal, 2015, 29, 1032.7. | 0.5 | 2 |
| 36 | Effects of Different Systemic Opioid Doses on Subareas of the Ventral Respiratory Column. FASEB Journal, 2020, 34, 1-1. | 0.5 | 1 |

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|---|---|---|---|
| 37 | Endogenous GABA <sub>A</sub> receptorâ€mediated attenuation of hypoglossal motorneuronal discharge activity in vivo. FASEB Journal, 2007, 21, A560. | 0.5 | 1 |
| 38 | Characteristics of drug concentration profiles for picoejection studies of brainstem neurons. FASEB Journal, 2006, 20, A784. | 0.5 | 1 |
| 39 | Local microejection of muâ€opioids into the preâ€BÃ¶tzinger complex (pBC) region produces opposite effects on breathing rate to systemic muâ€opioid infusion in decerebrate dogs. FASEB Journal, 2009, 23, 960.6. | 0.5 | 1 |
| 40 | Effects of local microejection of biogenic amines into the preâ€Botzinger complex (pBC) and adjacent ventral respiratory column (VRC) on the canine breathing pattern. FASEB Journal, 2009, 23, 960.7. | 0.5 | 1 |
| 41 | Hepatic artery flow, inspired oxygen, and hemoglobin determine liver tissue saturation measured with visible diffuse reflectance spectroscopy (visâ€DRS) in an in vivo swine model. Pediatric Transplantation, 2022, , e14230. | 1.0 | 1 |
| 42 | Nitazenes are potent muâ€opioid receptor agonists with profound respiratory depression. FASEB Journal, 2022, 36, . | 0.5 | 1 |
| 43 | Should Deidentified Case Data Be Treated as Independent Data Points?. Anesthesiology, 2016, 124, 1418-1419. | 2.5 | 0 |
| 44 | Naloxone Injections into the Parabrachial Nucleus/ KÃ¶llikerâ€Fuse Complex, the preBÃ¶tzinger Complex and the Caudal Medullary Raphe Reverse Remifentanilâ€Induced Respiratory Depression. FASEB Journal, 2021, 35, . | 0.5 | 0 |
| 45 | Endogenous Opioid Receptor Activation in the Caudal Medullary Raphe Depresses Respiratory Rate in Decerebrate Rabbits. FASEB Journal, 2021, 35, . | 0.5 | 0 |
| 46 | Endogenous activation of NMDA receptors strongly contributes to the discharge patterns of canine inspiratory hypoglossal motoneurons (IHMN) in vivo. FASEB Journal, 2006, 20, A782. | 0.5 | 0 |
| 47 | Doseâ€dependent effects of morphine (MOR) applied directly onto canine respiratory bulbospinal neurons. FASEB Journal, 2007, 21, A560. | 0.5 | 0 |
| 48 | Depression of Respiratory Bulbospinal Neurons (RBSNs) by Clinical Doseâ€Rates of Intravenous Remifentanil is not due to Direct Opioid Receptor Activation at the RBSN Level. FASEB Journal, 2007, 21, A560. | 0.5 | 0 |
| 49 | Developmental changes in the pattern of the hypoxic ventilatory response in rabbits. FASEB Journal, 2008, 22, 955.8. | 0.5 | 0 |
| 50 | Depression of respiratory rate by intravenous opioids is not due to direct opioid effects on neurons within the preBotzinger Complex (pBC) region. FASEB Journal, 2008, 22, 755.9. | 0.5 | 0 |
| 51 | Effects of IV Remifentanil (Remi) on the discharge patterns of canine preâ€Botzinger complex (pBC) neurons. FASEB Journal, 2010, 24, 614.6. | 0.5 | 0 |
| 52 | Changes in CO 2 during acute hypoxia in immature and adult rabbits and the development of apnea. FASEB Journal, 2010, 24, 799.26. | 0.5 | 0 |
| 53 | Doseâ€dependent depression of preBotzinger Complex (pBC) region neurons by local application of the 5HT1A receptor agonist 8OHâ€DPAT. FASEB Journal, 2010, 24, . | 0.5 | 0 |
| 54 | Pontine Î¼â€opioid receptors mediate the bradypnea caused by clinically relevant rates of intravenous remifentanil in dogs. FASEB Journal, 2012, 26, 1088.10. | 0.5 | 0 |

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|---|---|---|---|
| 55 | The effect of DAMGO on the preBÃ¶tzinger Complex (preBC) in young and adult rabbits. FASEB Journal, 2012, 26, lb826. | 0.5 | 0 |
| 56 | Effects of IV remifentanil (Remi) on the discharge of canine pontine respiratory group (PRG) neurons in the parabrachial complex (PB). FASEB Journal, 2013, 27, 1214.4. | 0.5 | 0 |
| 57 | The PreBÃ¶tzinger Complex (preBC) Partially Mediates Opioidâ€induced Respiratory Depression in Young but not in Adult Rabbits. FASEB Journal, 2013, 27, 931.6. | 0.5 | 0 |
| 58 | Relative contributions of NMDA and AMPA receptorâ€mediated excitation to the spontaneous discharge of canine pontine respiratory group neurons (712.5). FASEB Journal, 2014, 28, 712.5. | 0.5 | 0 |
| 59 | Pontine respiratory group neuronal discharge is modulated by powerful GABAergic tonic inhibition (712.7). FASEB Journal, 2014, 28, 712.7. | 0.5 | 0 |
| 60 | The pontine respiratory group is involved in opioidâ€induced respiratory depression in adult rabbits (712.6). FASEB Journal, 2014, 28, 712.6. | 0.5 | 0 |
| 61 | Automatic Classification of Canine Pontine Neuronal Discharge Patterns using Kâ€means Clustering. FASEB Journal, 2015, 29, 1032.6. | 0.5 | 0 |
| 62 | The effect of DAMGO injections on the respiratory pattern varies between subareas of the ventral respiratory column in adult rabbits. FASEB Journal, 2018, 32, 893.8. | 0.5 | 0 |
| 63 | The Parabrachial Nucleus and KÃ¶llikerâ€Fuse Nucleus contribute jointly to inspiratory and expiratory phase duration. FASEB Journal, 2019, 33, . | 0.5 | 0 |
| 64 | Neuronal Correlates Mediating the Pontine Modulation of the Heringâ€Breuer Expiratory Facilitatory (HBEF) Reflex. FASEB Journal, 2019, 33, 548.6. | 0.5 | 0 |
| 65 | Vagal Feedback Obscures the Effects of Systemic Opioids on Respiratory Rate in the preBÃ¶tzinger Complex in Young Rabbits in vivo. FASEB Journal, 2020, 34, 1-1. | 0.5 | 0 |
| 66 | Pontine Parabrachial Nucleus (PBN) Neuron Subtypes Involved With the Control of Breathing Frequency. FASEB Journal, 2020, 34, 1-1. | 0.5 | 0 |