# Gerlinda E Hermann

List of Publications by Year
in descending order



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|---|---|---|---|
| 78 papers | 3,892 citations | 117625<br>34 h-index | 123424<br>61 g-index |
| 78 all docs | 78 docs citations | 78 times ranked | 2967 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | BRAINSTEM CIRCUITS REGULATING GASTRIC FUNCTION. Annual Review of Physiology, 2006, 68, 279-305. | 13.1 | 426 |
| 2 | Chapter 4 Cell death in models of spinal cord injury. Progress in Brain Research, 2002, 137, 37-47. | 1.4 | 387 |
| 3 | Tumor Necrosis Factor-Î± Induces cFOS and Strongly Potentiates Glutamate-Mediated Cell Death in the Rat Spinal Cord. Neurobiology of Disease, 2001, 8, 590-599. | 4.4 | 181 |
| 4 | Convergence of vagal and gustatory afferent input within the parabrachial nucleus of the rat. Journal of the Autonomic Nervous System, 1985, 13, 1-17. | 1.9 | 174 |
| 5 | Oxytocin, oxytocin antagonist, TRH, and hypothalamic paraventricular nucleus stimulation effects on gastric motility. Peptides, 1987, 8, 505-513. | 2.4 | 165 |
| 6 | Dorsal medullary oxytocin, vasopressin, oxytocin antagonist, and TRH effects on gastric acid secretion and heart rate. Peptides, 1985, 6, 1143-1148. | 2.4 | 114 |
| 7 | Vagal control of digestion: Modulation by central neural and peripheral endocrine factors. Neuroscience and Biobehavioral Reviews, 1996, 20, 57-66. | 6.1 | 112 |
| 8 | Central connections of the hepatic branch of the vagus nerve: a horseradish peroxidase histochemical study. Journal of the Autonomic Nervous System, 1983, 7, 165-174. | 1.9 | 99 |
| 9 | Astrocytes Regulate GLP-1 Receptor-Mediated Effects on Energy Balance. Journal of Neuroscience, 2016, 36, 3531-3540. | 3.6 | 92 |
| 10 | Thyrotropin-releasing hormone: effects on identified neurons of the dorsal vagal complex. Journal of the Autonomic Nervous System, 1989, 26, 107-112. | 1.9 | 85 |
| 11 | Kinetics of glucocorticoid response to restraint stress and/or experimental influenza viral infection in two inbred strains of mice. Journal of Neuroimmunology, 1994, 49, 25-33. | 2.3 | 84 |
| 12 | In vitro and in vivo analysis of the Effects of corticotropin releasing factor on rat dorsal vagal complex. Journal of Physiology, 2002, 543, 135-146. | 2.9 | 75 |
| 13 | Hypothalamic paraventricular nucleus stimulation-induced gastric acid secretion and bradycardia suppressed by oxytocin antagonist. Peptides, 1986, 7, 695-700. | 2.4 | 73 |
| 14 | III. Activity-dependent plasticity in vago-vagal reflexes controlling the stomach. American Journal of Physiology - Renal Physiology, 2003, 284, G180-G187. | 3.4 | 73 |
| 15 | Restraint stress differentially affects the pathogenesis of an experimental influenza viral infection in three inbred strains of mice. Journal of Neuroimmunology, 1993, 47, 83-93. | 2.3 | 70 |
| 16 | Hepatic-vagal and gustatory afferent interactions in the brainstem of the rat. Journal of the Autonomic Nervous System, 1983, 9, 477-495. | 1.9 | 68 |
| 17 | IL-1Î² reciprocally regulates chemokine and insulin secretion in pancreatic Î²-cells via NF-ÎºB. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E715-E726. | 3.5 | 66 |
| 18 | TNF-Î± activates solitary nucleus neurons responsive to gastric distension. American Journal of Physiology - Renal Physiology, 2000, 279, G582-G586. | 3.4 | 65 |

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|---|---|---|---|
| 19 | Vagal Afferent Stimulation Activates Astrocytes in the Nucleus of the Solitary Tract Via AMPA Receptors: Evidence of an Atypical Neuralâ€"Glial Interaction in the Brainstem. Journal of Neuroscience, 2011, 31, 14037-14045. | 3.6 | 64 |
| 20 | Tumor Necrosis Factor-Alpha in the Dorsal Vagal Complex Suppresses Gastric Motility. NeuroImmunoModulation, 1995, 2, 74-81. | 1.8 | 60 |
| 21 | TNF Î±: A Trigger of Autonomic Dysfunction. Neuroscientist, 2008, 14, 53-67. | 3.5 | 56 |
| 22 | Proteinase-Activated Receptors in the Nucleus of the Solitary Tract: Evidence for Glialâ€"Neural Interactions in Autonomic Control of the Stomach. Journal of Neuroscience, 2009, 29, 9292-9300. | 3.6 | 54 |
| 23 | Descending spinal projections from the rostral gigantocellular reticular nuclei complex. Journal of Comparative Neurology, 2003, 455, 210-221. | 1.6 | 53 |
| 24 | Nucleus raphe obscurus (nRO) influences vagal control of gastric motility in rats. Brain Research, 1989, 486, 181-184. | 2.2 | 52 |
| 25 | Stress-induced changes attributable to the sympathetic nervous system during experimental influenza viral infection in DBA/2 inbred mouse strain. Journal of Neuroimmunology, 1994, 53, 173-180. | 2.3 | 50 |
| 26 | Hydrogen sulfide augments synaptic neurotransmission in the nucleus of the solitary tract. Journal of Neurophysiology, 2011, 106, 1822-1832. | 1.8 | 48 |
| 27 | PAR1-Activated Astrocytes in the Nucleus of the Solitary Tract Stimulate Adjacent Neurons via NMDA Receptors. Journal of Neuroscience, 2015, 35, 776-785. | 3.6 | 48 |
| 28 | Immunocytochemical localization of TNF type 1 and type 2 receptors in the rat spinal cord. Brain Research, 2004, 1025, 210-219. | 2.2 | 44 |
| 29 | Mechanisms of action of CCK to activate central vagal afferent terminals. Peptides, 2008, 29, 1716-1725. | 2.4 | 43 |
| 30 | Astrocytes in the nucleus of the solitary tract are activated by low glucose or glucoprivation: evidence for glial involvement in glucose homeostasis. Frontiers in Neuroscience, 2013, 7, 249. | 2.8 | 42 |
| 31 | Norepinephrine effects on identified neurons of the rat dorsal motor nucleus of the vagus. American Journal of Physiology - Renal Physiology, 2004, 286, G333-G339. | 3.4 | 38 |
| 32 | Î±-1 adrenergic input to solitary nucleus neurones: calcium oscillations, excitation and gastric reflex control. Journal of Physiology, 2005, 562, 553-568. | 2.9 | 37 |
| 33 | Dopamine Inhibits N-Type Channels in Visceral Afferents to Reduce Synaptic Transmitter Release Under Normoxic and Chronic Intermittent Hypoxic Conditions. Journal of Neurophysiology, 2009, 101, 2270-2278. | 1.8 | 36 |
| 34 | TNF activates astrocytes and catecholaminergic neurons in the solitary nucleus: Implications for autonomic control. Brain Research, 2009, 1273, 72-82. | 2.2 | 36 |
| 35 | LPS-induced suppression of gastric motility relieved by TNFR:Fc construct in dorsal vagal complex. American Journal of Physiology - Renal Physiology, 2002, 283, G634-G639. | 3.4 | 35 |
| 36 | Dorsal medullary serotonin and gastric motility: enhancement of effects by thyrotropin-releasing hormone. Journal of the Autonomic Nervous System, 1988, 25, 35-40. | 1.9 | 34 |

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|---|---|---|---|
| 37 | TNF-Î±-induced c-Fos generation in the nucleus of the solitary tract is blocked by NBQX and MK-801. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1394-R1400. | 1.8 | 34 |
| 38 | Tumor necrosis factor-Î± inhibits physiologically identified dorsal motor nucleus neurons in vivo. Brain Research, 2002, 951, 311-315. | 2.2 | 34 |
| 39 | Tumor Necrosis Factor Potentiates Central Vagal Afferent Signaling by Modulating Ryanodine Channels. Journal of Neuroscience, 2006, 26, 12642-12646. | 3.6 | 31 |
| 40 | Leptin and thyrotropin-releasing hormone: Cooperative action in the hindbrain to activate brown adipose thermogenesis. Brain Research, 2006, 1117, 118-124. | 2.2 | 30 |
| 41 | Descending projections from the nucleus raphe obscurus to pudendal motoneurons in the male rat. , 1998, 397, 458-474. | | 28 |
| 42 | Live-cell imaging methods for the study of vagal afferents within the nucleus of the solitary tract. Journal of Neuroscience Methods, 2006, 150, 47-58. | 2.5 | 28 |
| 43 | Co-localization of TRHR1 and LepRb receptors on neurons in the hindbrain of the rat. Brain Research, 2010, 1355, 70-85. | 2.2 | 28 |
| 44 | Astrocytes in the hindbrain detect glucoprivation and regulate gastric motility. Autonomic Neuroscience: Basic and Clinical, 2013, 175, 61-69. | 2.8 | 27 |
| 45 | Leptin â€œgatesâ€•thermogenic action of thyrotropin-releasing hormone in the hindbrain. Brain Research, 2009, 1295, 135-141. | 2.2 | 26 |
| 46 | Induction of endogenous tumor necrosis factor-Î±: suppression of centrally stimulated gastric motility. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R59-R68. | 1.8 | 25 |
| 47 | Esophageal-gastric relaxation reflex in rat: dual control of peripheral nitrergic and cholinergic transmission. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R1570-R1576. | 1.8 | 25 |
| 48 | Hindbrain Glucoprivation Effects on Gastric Vagal Reflex Circuits and Gastric Motility in the Rat Are Suppressed by the Astrocyte Inhibitor Fluorocitrate. Journal of Neuroscience, 2014, 34, 10488-10496. | 3.6 | 25 |
| 49 | Response of catecholaminergic neurons in the mouse hindbrain to glucoprivic stimuli is astrocyte dependent. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R153-R164. | 1.8 | 22 |
| 50 | Mechanisms of action of long-acting analogs of somatostatin. Regulatory Peptides, 1993, 44, 285-295. | 1.9 | 21 |
| 51 | Tumor Necrosis Factor Activation of Vagal Afferent Terminal Calcium Is Blocked by Cannabinoids. Journal of Neuroscience, 2012, 32, 5237-5241. | 3.6 | 20 |
| 52 | Activation of the bed nucleus of the stria terminalis increases gastric motility in the rat. Journal of the Autonomic Nervous System, 1990, 30, 123-128. | 1.9 | 19 |
| 53 | TNFÎ±-stimulation of cFos-activation of neurons in the solitary nucleus is suppressed by TNFR:Fc adsorbant construct in the dorsal vagal complex. Brain Research, 2003, 976, 69-74. | 2.2 | 18 |
| 54 | TNFÎ± -p55 receptors: medullary brainstem immunocytochemical localization in normal and vagus nerve-transected rats. Brain Research, 2004, 1004, 156-166. | 2.2 | 18 |

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|---|---|---|---|
| 55 | Hindbrain cytoglucopenia-induced increases in systemic blood glucose levels by 2-deoxyglucose depend on intact astrocytes and adenosine release. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R1102-R1108. | 1.8 | 18 |
| 56 | Projection of the hepatic branch of the splanchnic nerve to the brainstem of the rat. Journal of the Autonomic Nervous System, 1984, 11, 223-225. | 1.9 | 15 |
| 57 | Dorsal vagal complex and hypothalamic glia differentially respond to leptin and energy balance dysregulation. Translational Psychiatry, 2020, 10, 90. | 4.8 | 15 |
| 58 | St. Johnâ€™s Wort enhances the synaptic activity of the nucleus of the solitary tract. Nutrition, 2014, 30, S37-S42. | 2.4 | 14 |
| 59 | CXCR4 receptors in the dorsal medulla: implications for autonomic dysfunction. European Journal of Neuroscience, 2008, 27, 855-864. | 2.6 | 13 |
| 60 | Leptin amplifies the action of thyrotropin-releasing hormone in the solitary nucleus: an in vitro calcium imaging study. Brain Research, 2011, 1385, 47-55. | 2.2 | 13 |
| 61 | Brainstem Control of the Gastric Function. , 2012, , 861-891. | | 13 |
| 62 | Evidence that hindbrain astrocytes in the rat detect low glucose with a glucose transporter 2-phospholipase C-calcium release mechanism. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R38-R48. | 1.8 | 13 |
| 63 | Hindbrain astrocytes and glucose counter-regulation. Physiology and Behavior, 2019, 204, 140-150. | 2.1 | 12 |
| 64 | NMDA receptors control vagal afferent excitability in the nucleus of the solitary tract. Brain Research, 2015, 1595, 84-91. | 2.2 | 9 |
| 65 | Loss of excitatory amino acid transporter restraint following chronic intermittent hypoxia contributes to synaptic alterations in nucleus tractus solitarii. Journal of Neurophysiology, 2020, 123, 2122-2135. | 1.8 | 9 |
| 66 | Modulation of IgA synthesis by neuroendocrine peptides. Trends in Endocrinology and Metabolism, 1991, 2, 68-72. | 7.1 | 8 |
| 67 | Astrocytic glutamate transporters reduce the neuronal and physiological influence of metabotropic glutamate receptors in nucleus tractus solitarii. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R545-R564. | 1.8 | 8 |
| 68 | Dynamin-related protein 1 regulates substrate oxidation in skeletal muscle by stabilizing cellular and mitochondrial calcium dynamics. Journal of Biological Chemistry, 2021, 297, 101196. | 3.4 | 8 |
| 69 | Brainstem Control of Gastric Function. , 2006, , 851-875. | | 8 |
| 70 | Systemic cholecystokinin amplifies vagoâ€vagal reflex responses recorded in vagal motor neurones. Journal of Physiology, 2012, 590, 631-646. | 2.9 | 6 |
| 71 | Stress and the colon: central-vagal or direct peripheral effect of CRF?. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R1535-R1536. | 1.8 | 4 |
| 72 | CXCL12 sensitizes vago-vagal reflex neurons in the dorsal medulla. Brain Research, 2013, 1492, 46-52. | 2.2 | 3 |

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|---|---|---|---|
| 73 | Artemisia santolinifolia enhances glutamatergic neurotransmission in the nucleus of the solitary tract. Neuroscience Letters, 2014, 582, 115-119. | 2.1 | 2 |
| 74 | Thrombin action on astrocytes in the hindbrain of the rat disrupts glycemic and respiratory control. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R1068-R1077. | 1.8 | 2 |
| 75 | Thrombin action on NST astrocytes disrupts glycemic and respiratory control. FASEB Journal, 2018, 32, . | 0.5 | 1 |
| 76 | Involvement of adrenoceptors in brainstem circuits controlling the receptive relaxation reflex. Gastroenterology, 2003, 124, A613. | 1.3 | 0 |
| 77 | Donald Novin. Appetite, 2008, 51, 417-418. | 3.7 | 0 |
| 78 | Glucoprivic sensitivity of hindbrain catecholamine neurons is astrocyteâ€dependent. FASEB Journal, 2018, 32, 738.2. | 0.5 | 0 |