# Eugenio Scarnati

List of Publications by Year
in descending order

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|---|---|---|---|
| 93<br>papers | 4,891<br>citations | 159358<br>30<br>h-index | 91712<br>69<br>g-index |
| 97<br>all docs | 97<br>docs citations | 97<br>times ranked | 3376<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Neuronal activity in monkey ventral striatum related to the expectation of reward. Journal of Neuroscience, 1992, 12, 4595-4610. | 1.7 | 755 |
| 2 | Bilateral deep brain stimulation of the pedunculopontine and subthalamic nuclei in severe Parkinson's disease. Brain, 2007, 130, 1596-1607. | 3.7 | 739 |
| 3 | Implantation of human pedunculopontine nucleus: a safe and clinically relevant target in Parkinson's disease. NeuroReport, 2005, 16, 1877-1881. | 0.6 | 383 |
| 4 | Responses to reward in monkey dorsal and ventral striatum. Experimental Brain Research, 1991, 85, 491-500. | 0.7 | 313 |
| 5 | Neuronal activity in monkey striatum related to the expectation of predictable environmental events. Journal of Neurophysiology, 1992, 68, 945-960. | 0.9 | 244 |
| 6 | Role of primate basal ganglia and frontal cortex in the internal generation of movements. Experimental Brain Research, 1992, 91, 385-395. | 0.7 | 168 |
| 7 | Tonically discharging neurons of monkey striatum respond to preparatory and rewarding stimuli. Experimental Brain Research, 1991, 84, 672-5. | 0.7 | 156 |
| 8 | A microiontophoretic study on the nature of the putative synaptic neurotransmitter involved in the pedunculopontine-substantia nigra pars compacta excitatory pathway of the rat. Experimental Brain Research, 1986, 62, 470-8. | 0.7 | 137 |
| 9 | Pedunculopontine-evoked excitation of substantia nigra neurons in the rat. Brain Research, 1984, 304, 351-361. | 1.1 | 108 |
| 10 | Chapter 15 Reward-related activity in the monkey striatum and substantia nigra. Progress in Brain Research, 1993, 99, 227-235. | 0.9 | 91 |
| 11 | Pharmacological study of the cortical-induced excitation of subthalamic nucleus neurons in the rat: Evidence for amino acids as putative neurotransmitters. Neuroscience, 1987, 21, 429-440. | 1.1 | 90 |
| 12 | The reciprocal electrophysiological influence between the nucleus tegmenti pedunculopontinus and the substantia nigra in normal and decorticated rats. Brain Research, 1987, 423, 116-124. | 1.1 | 84 |
| 13 | Evidence that non-NMDA receptors are involved in the excitatory pathway from the pedunculopontine region to nigrostriatal dopaminergic neurons. Experimental Brain Research, 1992, 89, 79-86. | 0.7 | 77 |
| 14 | Bilateral corticosubthalamic nucleus projections: An electrophysiological study in rats with chronic cerebral lesions. Neuroscience, 1985, 15, 69-79. | 1.1 | 75 |
| 15 | Stereotactic surgery of nucleus tegmenti pedunculopontini. British Journal of Neurosurgery, 2008, 22, S33-S40. | 0.4 | 72 |
| 16 | High-frequency stimulation of the subthalamic nucleus modulates the activity of pedunculopontine neurons through direct activation of excitatory fibres as well as through indirect activation of inhibitory pallidal fibres in the rat. European Journal of Neuroscience, 2007, 25, 1174-1186. | 1.2 | 60 |
| 17 | Sleep induced by low doses of apomorphine in rats. Electroencephalography and Clinical Neurophysiology, 1979, 46, 214-219. | 0.3 | 57 |
| 18 | Deficits in reaction times and movement times as correlates of hypokinesia in monkeys with MPTP-induced striatal dopamine depletion. Journal of Neurophysiology, 1989, 61, 651-668. | 0.9 | 57 |

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|---|---|---|---|
| 19 | The Deep Brain Stimulation of the Pedunculopontine Tegmental Nucleus. Neuromodulation, 2009, 12, 191-204. | 0.4 | 55 |
| 20 | Role of tonically-active neurons in the control of striatal function: Cellular mechanisms and behavioral correlates. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2001, 25, 211-230. | 2.5 | 54 |
| 21 | The deep brain stimulation of the pedunculopontine tegmental nucleus: towards a new stereotactic neurosurgery. Journal of Neural Transmission, 2011, 118, 1431-1451. | 1.4 | 48 |
| 22 | The Basal Ganglia: More than just a switching device. CNS Neuroscience and Therapeutics, 2018, 24, 677-684. | 1.9 | 48 |
| 23 | The organization of nucleus tegmenti pedunculopontinus neurons projecting to basal ganglia and thalamus: a retrograde fluorescent double labeling study in the rat. Neuroscience Letters, 1987, 79, 11-16. | 1.0 | 46 |
| 24 | Peripeduncular and pedunculopontine nuclei: a dispute on a clinically relevant target. NeuroReport, 2007, 18, 1407-1408. | 0.6 | 46 |
| 25 | Microiontophoretic studies on the nature of the neurotransmitter in the subthalamo-entopeduncular pathway of the rat. Brain Research, 1983, 271, 11-20. | 1.1 | 43 |
| 26 | Unilateral deep brain stimulation of the pedunculopontine tegmental nucleus in idiopathic Parkinsonâ€™s disease: Effects on gait initiation and performance. Gait and Posture, 2014, 40, 357-362. | 0.6 | 43 |
| 27 | The Clinical Effects of Deep Brain Stimulation of the Pedunculopontine Tegmental Nucleus in Movement Disorders May Not Be Related to the Anatomical Target, Leads Location, and Setup of Electrical Stimulation. Neurosurgery, 2013, 73, 894-906. | 0.6 | 38 |
| 28 | The catecholamine uptake blocker nomifensine protects against MPTP-induced parkinsonism in monkeys. Experimental Brain Research, 1986, 63, 216-20. | 0.7 | 35 |
| 29 | Neuronal responses to iontophoretically applied dopamine, glutamate, and GABA of identified dopaminergic cells in the rat substantia nigra after kainic acid-induced destruction of the striatum. Experimental Brain Research, 1982, 46, 377-382. | 0.7 | 34 |
| 30 | Saccadic reaction times, eye-arm coordination and spontaneous eye movements in normal and MPTP-treated monkeys. Experimental Brain Research, 1989, 78, 253-67. | 0.7 | 32 |
| 31 | In vivo electrophysiology of dopamineâ€denervated striatum: Focus on the nitric oxide/cGMP signaling pathway. Synapse, 2008, 62, 409-420. | 0.6 | 30 |
| 32 | Cholinergic excitation from the pedunculopontine tegmental nucleus to the dentate nucleus in the rat. Neuroscience, 2016, 317, 12-22. | 1.1 | 30 |
| 33 | Deep brain stimulation promotes excitation and inhibition in subthalamic nucleus in Parkinson's disease. NeuroReport, 2008, 19, 661-666. | 0.6 | 29 |
| 34 | The function of the pedunculopontine nucleus in the preparation and execution of an externally-cued bar pressing task in the rat. Behavioural Brain Research, 1999, 104, 95-104. | 1.2 | 28 |
| 35 | The pedunculopontine nucleus projection to the parafascicular nucleus of the thalamus: an electrophysiological investigation in the rat. Journal of Neural Transmission, 2003, 110, 733-747. | 1.4 | 28 |
| 36 | Influence of prelimbic and sensorimotor cortices on striatal neurons in the rat: electrophysiological evidence for converging inputs and the effects of 6-OHDA-induced degeneration of the substantia nigra. Brain Research, 1993, 619, 180-188. | 1.1 | 27 |

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|---|---|---|---|
| 37 | Our first decade of experience in deep brain stimulation of the brainstem: elucidating the mechanism of action of stimulation of the ventrolateral pontine tegmentum. Journal of Neural Transmission, 2016, 123, 751-767. | 1.4 | 26 |
| 38 | Neurophysiology of the pedunculopontine tegmental nucleus. Neurobiology of Disease, 2019, 128, 19-30. | 2.1 | 26 |
| 39 | Commentary: The pedunculopontine nucleus: clinical experience, basic questions and future directions. Journal of Neural Transmission, 2011, 118, 1391-1396. | 1.4 | 23 |
| 40 | High Cervical Spinal Cord Stimulation: A One Year Follow-Up Study on Motor and Non-Motor Functions in Parkinsonâ€™s Disease. Brain Sciences, 2019, 9, 78. | 1.1 | 23 |
| 41 | Effects of unilateral pedunculopontine stimulation on electromyographic activation patterns during gait in individual patients with Parkinsonâ€™s disease. Journal of Neural Transmission, 2011, 118, 1477-1486. | 1.4 | 21 |
| 42 | The pedunculopontine nucleus and related structures. Functional organization. Advances in Neurology, 1997, 74, 97-110. | 0.8 | 21 |
| 43 | Fluorescent light induces neurodegeneration in the rodent nigrostriatal system but near infrared LED light does not. Brain Research, 2017, 1662, 87-101. | 1.1 | 20 |
| 44 | The functional role of the pedunculopontine nucleus in the regulation of the electrical activity of entopeduncular neurons in the rat. Archives Italiennes De Biologie, 1988, 126, 145-63. | 0.1 | 20 |
| 45 | The functional role of the nucleus accumbens in the control of the substantia nigra: Electrophysiological investigations in intact and striatum-globus pallidus lesioned rats. Brain Research, 1983, 265, 249-257. | 1.1 | 19 |
| 46 | The pedunculopontine tegmental nucleus: implications for a role in modulating spinal cord motoneuron excitability. Journal of Neural Transmission, 2011, 118, 1409-1421. | 1.4 | 19 |
| 47 | Low and high-frequency somatosensory evoked potentials recorded from the human pedunculopontine nucleus. Clinical Neurophysiology, 2014, 125, 1859-1869. | 0.7 | 16 |
| 48 | Behavioural and electrocortical modifications induced in the rat by intraventricular injection of physalaemin and eledoisin. Psychopharmacology, 1974, 38, 211-218. | 1.5 | 15 |
| 49 | Protection against 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced parkinsonism by the catecholamine uptake inhibitor nomifensine: Behavioral analysis in monkeys with partial striatal dopamine depletions. Neuroscience, 1989, 31, 219-230. | 1.1 | 15 |
| 50 | Transplantation of Mesencephalic Cell Suspension in Dopamine-Denervated Striatum of the Rat. Experimental Neurology, 1996, 138, 318-326. | 2.0 | 15 |
| 51 | Dopamine denervation of specific striatal subregions differentially affects preparation and execution of a delayed response task in the rat. Behavioural Brain Research, 1999, 104, 51-62. | 1.2 | 15 |
| 52 | Unilateral lesions of the pedunculopontine nucleus do not alleviate subthalamic nucleus-mediated anticipatory responding in a delayed sensorimotor task in the rat. Behavioural Brain Research, 2001, 126, 93-103. | 1.2 | 14 |
| 53 | Low frequency stimulation of the pedunculopontine nucleus modulates electrical activity of subthalamic neurons in the rat. Journal of Neural Transmission, 2009, 116, 51-56. | 1.4 | 13 |
| 54 | Unilateral deep brain stimulation of the pedunculopontine tegmental nucleus improves oromotor movements in Parkinsonâ€™s disease. Brain Stimulation, 2012, 5, 634-641. | 0.7 | 12 |

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|---|---|---|---|
| 55 | CM-Pf deep brain stimulation and the long term management of motor and psychiatric symptoms in a case of Tourette syndrome. Journal of Clinical Neuroscience, 2019, 62, 269-272. | 0.8 | 12 |
| 56 | Increase in glutamate sensitivity of subthalamic nucleus neurons following bilateral decortication: a microiontophoretic study in the rat. Brain Research, 1987, 403, 366-370. | 1.1 | 11 |
| 57 | Behavioural learning-induced increase in spontaneous GABAA-dependent synaptic activity in rat striatal cholinergic interneurons. European Journal of Neuroscience, 2003, 17, 174-178. | 1.2 | 11 |
| 58 | Comparison between Tail Suspension Swing Test and Standard Rotation Test in Revealing Early Motor Behavioral Changes and Neurodegeneration in 6-OHDA Hemiparkinsonian Rats. International Journal of Molecular Sciences, 2020, 21, 2874. | 1.8 | 11 |
| 59 | Responsiveness of nigral neurons to the stimulation of striatal dopaminergic receptors in the rat. Life Sciences, 1980, 26, 1203-1209. | 2.0 | 10 |
| 60 | Where are the somatosensory evoked potentials recorded from DBS leads implanted in the human pedunculopontine tegmental nucleus generated?. Movement Disorders, 2011, 26, 1572-1573. | 2.2 | 10 |
| 61 | Electrophysiological evidence for an inhibitory accumbens-entopeduncular pathway in the rat. Neuroscience Letters, 1982, 33, 35-40. | 1.0 | 9 |
| 62 | Short-latency excitation of hindlimb motoneurons induced by electrical stimulation of the pontomesencephalic tegmentum in the rat. Neuroscience Letters, 1994, 169, 13-16. | 1.0 | 9 |
| 63 | Frameless Stereotaxis for Subthalamic Nucleus Deep Brain Stimulation: An Innovative Method for the Direct Visualization of Electrode Implantation by Intraoperative X-ray Control. Brain Sciences, 2018, 8, 90. | 1.1 | 9 |
| 64 | Deep Brain Stimulation of the Medial Thalamus for Movement Disorders. , 2009, , 599-615. | | 8 |
| 65 | Striatal cholinergic receptors and dyskinetic motor activity in the rat. Neuroscience Letters, 1980, 20, 363-367. | 1.0 | 7 |
| 66 | The thalamus as a place for interaction between the input and the output systems of the basal ganglia: a commentary. Journal of Chemical Neuroanatomy, 1999, 16, 149-152. | 1.0 | 7 |
| 67 | Progress in deep brain stimulation of the pedunculopontine nucleus and other structures: implications for motor and non-motor disorders. Journal of Neural Transmission, 2016, 123, 653-654. | 1.4 | 7 |
| 68 | An EM and Golgi study on the connection between the nucleus tegmenti pedunculopontinus and the pars compacta of the substantia nigra in the rat. Journal FÃ¼r Hirnforschung, 1988, 29, 95-105. | 0.0 | 7 |
| 69 | Electrophysiological and behavioural correlations during the manipulations of GABA functions in the Substantia Nigra by n-dipropylacetate and Picrotoxin. Pharmacological Research Communications, 1979, 11, 817-824. | 0.2 | 6 |
| 70 | Dopaminergic and non-dopaminergic neurons in substantia nigra: Differential response to bromocriptine. Journal of Neural Transmission, 1980, 48, 297-303. | 1.4 | 6 |
| 71 | Eyes as Gateways for Environmental Light to the Substantia Nigra: Relevance in Parkinsonâ€™s Disease. Scientific World Journal, The, 2014, 2014, 1-7. | 0.8 | 6 |
| 72 | Cholinergic input from the pedunculopontine nucleus to the cerebellum: implications for deep brain stimulation in Parkinsonâ€²s disease. Neural Regeneration Research, 2016, 11, 729. | 1.6 | 6 |

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|---|---|---|---|
| 73 | Is urinary incontinence a true consequence of deep brain stimulation of the pedunculopontine tegmental nucleus in Parkinsonâ€™s disease?. Acta Neurochirurgica, 2012, 154, 831-834. | 0.9 | 5 |
| 74 | Continuous stimulation of the pedunculopontine tegmental nucleus at 40Hz affects preparative and executive control in a delayed sensorimotor task and reduces rotational movements induced by apomorphine in the 6-OHDA parkinsonian rat. Behavioural Brain Research, 2014, 271, 333-342. | 1.2 | 5 |
| 75 | Transplantation of Mesencephalic Cell Suspension in Dopamine-Denervated Striatum of the Rat. Experimental Neurology, 1997, 146, 142-150. | 2.0 | 4 |
| 76 | Reply: The peripeduncular and pedunculopontine nuclei: a putative dispute not discouraging the effort to define a clinically relevant target. Brain, 2007, 130, e74-e74. | 3.7 | 4 |
| 77 | The deep brain stimulation of the pedunculopontine tegmental nucleus: The (un)certainty of the stimulating site. Parkinsonism and Related Disorders, 2010, 16, 148. | 1.1 | 4 |
| 78 | Uncertainty, misunderstanding and the pedunculopontine nucleus: the exhumation of an already buried dispute. Acta Neurochirurgica, 2012, 154, 1527-1529. | 0.9 | 3 |
| 79 | Pedunculopontine tegmental Nucleus-evoked prepulse inhibition of the blink reflex in Parkinsonâ€™s disease. Clinical Neurophysiology, 2021, 132, 2729-2738. | 0.7 | 3 |
| 80 | Determination of red cell survival in rabbits by fluorescent excitation analysis of stable rubidium. Medical Physics, 1980, 7, 97-100. | 1.6 | 2 |
| 81 | PEDUNCULOPONTINE PROJECTIONS TO THE EXTRAPYRAMIDAL SYSTEM AND THEIR ROLE IN THE REGULATION OF THE SUBSTANTIA NIGRA PARS COMPACTA. Clinical Neuropharmacology, 1984, 7, S37. | 0.2 | 2 |
| 82 | MRI Helps in the Early Diagnosis of Corticobasilar Degeneration. The Neuroradiology Journal, 1998, 11, 13-14. | 0.1 | 2 |
| 83 | Reply: Where are the somatosensory evoked potentials recorded from DBS leads implanted in the human pedunculopontine tegmental nucleus generated?. Movement Disorders, 2011, 26, 1573-1574. | 2.2 | 2 |
| 84 | Deep Brain Stimulation of the Pedunculopontine Tegmental Nucleus Improves Static Balance in Parkinsonâ€™s Disease. , 2018, , 967-976. | | 2 |
| 85 | Contribution of different somatosensory afferent input to subcortical somatosensory evoked potentials in humans. Clinical Neurophysiology, 2021, 132, 2357-2364. | 0.7 | 2 |
| 86 | The pedunculopontine nucleus: from basic neuroscience to translational applications for Parkinsonâ€™s disease. Journal of Neural Transmission, 2011, 118, 1389-1390. | 1.4 | 1 |
| 87 | A Commentary on the Lead Positioning for Deep Brain Stimulation in the Pedunculopontine Tegmental Nucleus in a Patient Affected by Multiple System Atrophy. Stereotactic and Functional Neurosurgery, 2012, 90, 130-133. | 0.8 | 1 |
| 88 | Deep brain stimulation of the pedunculopontine tegmental nucleus and arousal in Parkinsonâ€™s disease. , 2019, , 143-159. | | 1 |
| 89 | microinjections in behavioural rats. Bollettino Della SocietÃ Italiana Di Biologia Sperimentale, 1981, 57, 919-25. | 0.0 | 1 |
| 90 | The temporal context of certaintyâ€“uncertainty modulates the subthalamic nucleus-mediated anticipatory responding. Behavioural Brain Research, 2013, 247, 40-47. | 1.2 | 0 |

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|---|---|---|---|
| 91 | Somatosensory evoked responses and lead position for deep brain stimulation in the brainstem: their relationships are helpful in the precise targeting of the pedunculopontine tegmental nucleus. Brain Stimulation, 2015, 8, 333. | 0.7 | 0 |
| 92 | Regulatory Action of the Dopaminergic Nigrostriatal Pathway on the Corticostriatal Transmission. Advances in Behavioral Biology, 1994, , 277-283. | 0.2 | 0 |
| 93 | Evidence for an intrastriatal GABA control on motor activity arising from dopaminergic hyperfuction in the striatum. Acta Neurologica, 1978, 33, 304-313. | 0.1 | 0 |