# Karl Herrup

List of Publications by Year
in descending order



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|---|---|---|---|
| 128 papers | 15,723 citations | 36303 51 h-index | 18130 120 g-index |
| 138 all docs | 138 docs citations | 138 times ranked | 18111 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Neuroinflammation in Alzheimer's disease. Lancet Neurology, The, 2015, 14, 388-405. | 10.2 | 4,129 |
| 2 | Mice deficient for Rb are nonviable and show defects in neurogenesis and haematopoiesis. Nature, 1992, 359, 288-294. | 27.8 | 1,259 |
| 3 | The case for rejecting the amyloid cascade hypothesis. Nature Neuroscience, 2015, 18, 794-799. | 14.8 | 613 |
| 4 | DNA Replication Precedes Neuronal Cell Death in Alzheimer's Disease. Journal of Neuroscience, 2001, 21, 2661-2668. | 3.6 | 589 |
| 5 | Ectopic Cell Cycle Proteins Predict the Sites of Neuronal Cell Death in Alzheimerâ€™s Disease Brain. Journal of Neuroscience, 1998, 18, 2801-2807. | 3.6 | 512 |
| 6 | Cell cycle regulation in the postmitotic neuron: oxymoron or new biology?. Nature Reviews Neuroscience, 2007, 8, 368-378. | 10.2 | 454 |
| 7 | Neuronal Cell Death Is Preceded by Cell Cycle Events at All Stages of Alzheimer's Disease. Journal of Neuroscience, 2003, 23, 2557-2563. | 3.6 | 441 |
| 8 | Social Interaction and Sensorimotor Gating Abnormalities in Mice Lacking Dvl1. Cell, 1997, 90, 895-905. | 28.9 | 440 |
| 9 | Reimagining Alzheimer's Diseaseâ€"An Age-Based Hypothesis. Journal of Neuroscience, 2010, 30, 16755-16762. | 3.6 | 330 |
| 10 | Cyclin-Dependent Kinase 5-Deficient Mice Demonstrate Novel Developmental Arrest in Cerebral Cortex. Journal of Neuroscience, 1998, 18, 6370-6377. | 3.6 | 294 |
| 11 | Divide and Die: Cell Cycle Events as Triggers of Nerve Cell Death. Journal of Neuroscience, 2004, 24, 9232-9239. | 3.6 | 268 |
| 12 | Pax-2 expression defines a subset of GABAergic interneurons and their precursors in the developing murine cerebellum. Journal of Neurobiology, 1999, 41, 281-294. | 3.6 | 222 |
| 13 | Regional variation and absence of large neurons in the cerebellum of the staggerer mouse. Brain Research, 1979, 172, 1-12. | 2.2 | 196 |
| 14 | Interaction of granule, Purkinje and inferior olivary neurons in lurcher chimeric mice. II. Granule cell death. Brain Research, 1982, 250, 358-362. | 2.2 | 195 |
| 15 | Nuclear accumulation of HDAC4 in ATM deficiency promotes neurodegeneration in ataxia telangiectasia. Nature Medicine, 2012, 18, 783-790. | 30.7 | 185 |
| 16 | Ectopic Cell Cycle Events Link Human Alzheimer's Disease and Amyloid Precursor Protein Transgenic Mouse Models. Journal of Neuroscience, 2006, 26, 775-784. | 3.6 | 164 |
| 17 | Staggerer chimeras: Intrinsic nature of purkinje cell defects and implications for normal cerebellar development. Brain Research, 1979, 178, 443-457. | 2.2 | 163 |
| 18 | Genomic integrity and the ageing brain. Nature Reviews Neuroscience, 2015, 16, 672-684. | 10.2 | 155 |

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|---|---|---|---|
| 19 | Cyclin-Dependent Kinase 5 Is Essential for Neuronal Cell Cycle Arrest and Differentiation. Journal of Neuroscience, 2005, 25, 9658-9668. | 3.6 | 153 |
| 20 | The PI3K-Akt-mTOR pathway regulates AÎ² oligomer induced neuronal cell cycle events. Molecular Neurodegeneration, 2009, 4, 14. | 10.8 | 151 |
| 21 | EZH2-mediated H3K27 trimethylation mediates neurodegeneration in ataxia-telangiectasia. Nature Neuroscience, 2013, 16, 1745-1753. | 14.8 | 143 |
| 22 | Pattern Deformities and Cell Loss inEngrailed-2Mutant Mice Suggest Two Separate Patterning Events during Cerebellar Development. Journal of Neuroscience, 1997, 17, 7881-7889. | 3.6 | 136 |
| 23 | Direct correlation between Purkinje and granule cell number in the cerebella of lurcher chimeras and wild-type mice. Developmental Brain Research, 1983, 10, 41-47. | 1.7 | 133 |
| 24 | Migration Defects of<i>cdk5</i><sup>âˆ’/âˆ’</sup>Neurons in the Developing Cerebellum is Cell Autonomous. Journal of Neuroscience, 1999, 19, 6017-6026. | 3.6 | 130 |
| 25 | Cell division in the CNS: Protective response or lethal event in post-mitotic neurons?. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 457-466. | 3.8 | 130 |
| 26 | Loss of Neuronal Cell Cycle Control in Ataxia-Telangiectasia: A Unified Disease Mechanism. Journal of Neuroscience, 2005, 25, 2522-2529. | 3.6 | 128 |
| 27 | AÎ² Oligomers Induce Neuronal Cell Cycle Events in Alzheimer's Disease. Journal of Neuroscience, 2008, 28, 10786-10793. | 3.6 | 126 |
| 28 | Role of staggerer gene in determining cell number in cerebellar cortex. I. Granule cell death is an indirect consequence of staggerer gene action. Developmental Brain Research, 1983, 11, 267-274. | 1.7 | 124 |
| 29 | Microglial derived tumor necrosis factor-Î± drives Alzheimer's disease-related neuronal cell cycle events. Neurobiology of Disease, 2014, 62, 273-285. | 4.4 | 120 |
| 30 | Aldolase C/zebrin II and the regionalization of the cerebellum. Journal of Molecular Neuroscience, 1995, 6, 147-158. | 2.3 | 117 |
| 31 | Cytoplasmic ATM in Neurons Modulates Synaptic Function. Current Biology, 2009, 19, 2091-2096. | 3.9 | 117 |
| 32 | Nuclear localization of Cdk5 is a key determinant in the postmitotic state of neurons. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8772-8777. | 7.1 | 111 |
| 33 | NSAIDs prevent, but do not reverse, neuronal cell cycle reentry in a mouse model of Alzheimer disease. Journal of Clinical Investigation, 2009, 119, 3692-3702. | 8.2 | 106 |
| 34 | Cdk5 Suppresses the Neuronal Cell Cycle by Disrupting the E2F1â€“DP1 Complex. Journal of Neuroscience, 2010, 30, 5219-5228. | 3.6 | 100 |
| 35 | Accumulation of Cytoplasmic DNA Due to ATM Deficiency Activates the Microglial Viral Response System with Neurotoxic Consequences. Journal of Neuroscience, 2019, 39, 6378-6394. | 3.6 | 86 |
| 36 | Beta-amyloid activated microglia induce cell cycling and cell death in cultured cortical neurons. Neurobiology of Aging, 2000, 21, 797-806. | 3.1 | 85 |

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|---|---|---|---|
| 37 | Age-related hyperinsulinemia leads to insulin resistance in neurons and cell-cycle-induced senescence. Nature Neuroscience, 2019, 22, 1806-1819. | 14.8 | 85 |
| 38 | Reâ€imagining Alzheimer's disease â€“ the diminishing importance of amyloid and a glimpse of what lies ahead. Journal of Neurochemistry, 2017, 143, 432-444. | 3.9 | 83 |
| 39 | Re-expression of cell cycle proteins induces neuronal cell death during Alzheimer's disease. Journal of Alzheimer's Disease, 2002, 4, 243-247. | 2.6 | 82 |
| 40 | Ibuprofen attenuates oxidative damage through NOX2 inhibition in Alzheimer's disease. Neurobiology of Aging, 2012, 33, 197.e21-197.e32. | 3.1 | 81 |
| 41 | DNA damage in the oligodendrocyte lineage and its role in brain aging. Mechanisms of Ageing and Development, 2017, 161, 37-50. | 4.6 | 80 |
| 42 | Neurons in Vulnerable Regions of the Alzheimerâ€™s Disease Brain Display Reduced ATM Signaling. ENeuro, 2016, 3, ENEURO.0124-15.2016. | 1.9 | 73 |
| 43 | Glutamine Acts as a Neuroprotectant against DNA Damage, Beta-Amyloid and H2O2-Induced Stress. PLoS ONE, 2012, 7, e33177. | 2.5 | 69 |
| 44 | Alteration in 5-hydroxymethylcytosine-mediated epigenetic regulation leads to Purkinje cell vulnerability in ATM deficiency. Brain, 2015, 138, 3520-3536. | 7.6 | 69 |
| 45 | CDK5 activator protein p25 preferentially binds and activates GSK3Î². Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4887-95. | 7.1 | 67 |
| 46 | Cortical development: Receiving Reelin. Current Biology, 2000, 10, R162-R166. | 3.9 | 66 |
| 47 | 2014 Report on the Milestones for the US National Plan to Address Alzheimer's Disease. , 2014, 10, S430-S452. | | 64 |
| 48 | The role of ATM and DNA damage in neurons: Upstream and downstream connections. DNA Repair, 2013, 12, 600-604. | 2.8 | 62 |
| 49 | Neocortical Cell Migration: GABAergic Neurons and Cells in Layers I and VI Move in a Cyclin-Dependent Kinase 5-Independent Manner. Journal of Neuroscience, 2001, 21, 9690-9700. | 3.6 | 59 |
| 50 | ATM and ATR play complementary roles in the behavior of excitatory and inhibitory vesicle populations. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E292-E301. | 7.1 | 58 |
| 51 | ATM is activated by ATP depletion and modulates mitochondrial function through NRF1. Journal of Cell Biology, 2019, 218, 909-928. | 5.2 | 55 |
| 52 | Role of the staggerer gene in determining Purkinje cell number in the cerebellar cortex of mouse chimeras. Developmental Brain Research, 1981, 1, 475-485. | 1.7 | 54 |
| 53 | Effects of Alzheimer's Disease on Different Cortical Layers: The Role of Intrinsic Differences in AÎ² Susceptibility. Journal of Neuroscience, 2007, 27, 8496-8504. | 3.6 | 54 |
| 54 | Cdk5 Nuclear Localization Is p27-dependent in Nerve Cells. Journal of Biological Chemistry, 2010, 285, 14052-14061. | 3.4 | 53 |

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| 55 | Failed Cell Migration and Death of Purkinje Cells and Deep Nuclear Neurons in theweaverCerebellum. Journal of Neuroscience, 1997, 17, 3675-3683. | 3.6 | 52 |
| 56 | Factors in the Genetic Background Suppress the<i>Engrailed-1</i>Cerebellar Phenotype. Journal of Neuroscience, 2003, 23, 5105-5112. | 3.6 | 52 |
| 57 | Cell Loss in the Inferior Olive of the Staggerer Mutant Mouse is an Indirect Effect of the Gene. Journal of Neurogenetics, 1990, 6, 229-241. | 1.4 | 50 |
| 58 | Progressive atrophy of cerebellar Purkinje cell dendrites during aging of the heterozygous staggerer mouse (Rora+/sg). Developmental Brain Research, 2001, 126, 201-209. | 1.7 | 50 |
| 59 | DNA damage and cell cycle events implicate cerebellar dentate nucleus neurons as targets of Alzheimer's disease. Molecular Neurodegeneration, 2010, 5, 60. | 10.8 | 50 |
| 60 | Cortical development: Layers of complexity. Current Biology, 1997, 7, R231-R234. | 3.9 | 47 |
| 61 | Role of staggerer gene in determining cell number in cerebellar cortex. II. Granule cell death and persistence of the external granule cell layer in young mouse chimeras. Developmental Brain Research, 1984, 12, 271-283. | 1.7 | 46 |
| 62 | Differential Responses of Individuals with Late-Stage Dementia to Two Novel Environments: A Multimedia Room and an Interior Garden. Journal of Alzheimer's Disease, 2014, 42, 985-998. | 2.6 | 46 |
| 63 | The numerical matching of source and target populations in the CNS: the inferior olive to Purkinje cell projection. Developmental Brain Research, 1996, 96, 28-35. | 1.7 | 43 |
| 64 | Quantitative examination of the deep cerebellar nuclei in the staggerer mutant mouse. Brain Research, 1981, 215, 49-59. | 2.2 | 42 |
| 65 | Cdk5 and the non-catalytic arrest of the neuronal cell cycle. Cell Cycle, 2008, 7, 3487-3490. | 2.6 | 42 |
| 66 | Nucleocytoplasmic Cdk5 is involved in neuronal cell cycle and death in post-mitotic neurons. Cell Cycle, 2011, 10, 1208-1214. | 2.6 | 42 |
| 67 | Neuronal cell loss in heterozygous staggerer mutant mice: a model for genetic contributions to the aging process. Developmental Brain Research, 1992, 67, 153-160. | 1.7 | 41 |
| 68 | E2F1 Works as a Cell Cycle Suppressor in Mature Neurons. Journal of Neuroscience, 2007, 27, 12555-12564. | 3.6 | 39 |
| 69 | A Comparative Study of Five Mouse Models of Alzheimer's Disease: Cell Cycle Events Reveal New Insights into Neurons at Risk for Death. International Journal of Alzheimer's Disease, 2011, 2011, 1-10. | 2.0 | 39 |
| 70 | Developmental studies of the inferior olivary nucleus in staggerer mutant mice. Developmental Brain Research, 1994, 82, 18-28. | 1.7 | 38 |
| 71 | Non-Neuronal Cells Are Required to Mediate the Effects of Neuroinflammation: Results from a Neuron-Enriched Culture System. PLoS ONE, 2016, 11, e0147134. | 2.5 | 38 |
| 72 | Stunted morphologies of cerebellar Purkinje cells inlurcher andstaggerer mice are cell-Intrinsic effects of the mutant genes. Journal of Comparative Neurology, 1995, 357, 65-75. | 1.6 | 37 |

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| 73 | DNA damageâ€associated oligodendrocyte degeneration precedes amyloid pathology and contributes to Alzheimer's disease and dementia. Alzheimer's and Dementia, 2018, 14, 664-679. | 0.8 | 37 |
| 74 | The Interaction of the Atm Genotype with Inflammation and Oxidative Stress. PLoS ONE, 2014, 9, e85863. | 2.5 | 36 |
| 75 | Interaction of granule, Purkinje and inferior olivary neurons in Lurcher chimaeric mice. Development (Cambridge), 1982, 68, 87-98. | 2.5 | 36 |
| 76 | The Role of Tangential Migration in the Establishment of Mammalian Cortex. Neuron, 2001, 31, 175-178. | 8.1 | 35 |
| 77 | ATM loss disrupts the autophagy-lysosomal pathway. Autophagy, 2021, 17, 1998-2010. | 9.1 | 35 |
| 78 | The involvement of cell cycle events in the pathogenesis of Alzheimer's disease. Alzheimer's Research and Therapy, 2010, 2, 13. | 6.2 | 34 |
| 79 | Purkinje cell loss in heterozygous staggerer mutant mice during aging. Developmental Brain Research, 1997, 98, 1-8. | 1.7 | 33 |
| 80 | Cdk5 Levels Oscillate during the Neuronal Cell Cycle. Journal of Biological Chemistry, 2012, 287, 25985-25994. | 3.4 | 33 |
| 81 | The impact of glutamine supplementation on the symptoms of ataxia-telangiectasia: a preclinical assessment. Molecular Neurodegeneration, 2016, 11, 60. | 10.8 | 29 |
| 82 | Selective loss of 5hmC promotes neurodegeneration in the mouse model of Alzheimer's disease. FASEB Journal, 2020, 34, 16364-16382. | 0.5 | 29 |
| 83 | Patterns of cell lineage in the cerebral cortex reveal evidence for developmental boundaries. Experimental Neurology, 1990, 109, 131-139. | 4.1 | 27 |
| 84 | Context-Dependent Functions of E2F1: Cell Cycle, Cell Death, and DNA Damage Repair in Cortical Neurons. Molecular Neurobiology, 2020, 57, 2377-2390. | 4.0 | 27 |
| 85 | Numerical matching in the mammalian CNS: Lack of a competitive advantage of early over late-generated cerebellar granule cells. Journal of Comparative Neurology, 1989, 283, 118-128. | 1.6 | 26 |
| 86 | Commentary on â€œRecommendations from the National Institute on Agingâ€Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease.â€• Addressing the challenge of Alzheimer's disease in the 21st century. Alzheimer's and Dementia, 2011, 7, 335-337. | 0.8 | 26 |
| 87 | Post-mitotic role of the cell cycle machinery. Current Opinion in Cell Biology, 2013, 25, 711-716. | 5.4 | 26 |
| 88 | Stable Brain<i>ATM</i>Message and Residual Kinase-Active ATM Protein in Ataxia-Telangiectasia. Journal of Neuroscience, 2011, 31, 7568-7577. | 3.6 | 25 |
| 89 | Elements between the protein-coding regions of the adjacent ?4 and ?3 acetylcholine receptor genes direct neuron-specific expression in the central nervous system. , 1997, 32, 311-324. | | 24 |
| 90 | Cyclin-Dependent Kinase 5â€“Dependent BAG3 Degradation Modulates Synaptic Protein Turnover. Biological Psychiatry, 2020, 87, 756-769. | 1.3 | 23 |

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| 91 | Studies of the dendritic tree of wild-type cerebellar Purkinje cells in lurcher chimeric mice. Journal of Comparative Neurology, 1990, 297, 121-131. | 1.6 | 22 |
| 92 | The Roles of Cdk5-Mediated Subcellular Localization of FOXO1 in Neuronal Death. Journal of Neuroscience, 2015, 35, 2624-2635. | 3.6 | 22 |
| 93 | ATM protein is located on presynaptic vesicles and its deficit leads to failures in synaptic plasticity. Journal of Neurophysiology, 2016, 116, 201-209. | 1.8 | 22 |
| 94 | The contributions of unscheduled neuronal cell cycle events to the death of neurons in Alzheimer's disease. Frontiers in Bioscience - Elite, 2012, E4, 2101. | 1.8 | 21 |
| 95 | Ibuprofen prevents progression of ataxia telangiectasia symptoms in ATM-deficient mice. Journal of Neuroinflammation, 2018, 15, 308. | 7.2 | 18 |
| 96 | Cortical development and topographic maps: patterns of cell dispersion in developing cerebral cortex. Current Opinion in Neurobiology, 1994, 4, 108-111. | 4.2 | 15 |
| 97 | Individual Cytokines Modulate the Neurological Symptoms of<i>ATM</i>Deficiency in a Region Specific Manner. ENeuro, 2015, 2, ENEURO.0032-15.2015. | 1.9 | 15 |
| 98 | CELL NUMBER IN THE INFERIOR OLIVE OFNERVOUSANDLEANERMUTANT MICE. Journal of Neurogenetics, 2004, 18, 327-339. | 1.4 | 14 |
| 99 | Changes in visual interaction: Viewing a Japanese garden directly, through glass or as a projected image. Journal of Environmental Psychology, 2018, 60, 116-121. | 5.1 | 14 |
| 100 | DNA Repair Inhibition Leads to Active Export of Repetitive Sequences to the Cytoplasm Triggering an Inflammatory Response. Journal of Neuroscience, 2021, 41, 9286-9307. | 3.6 | 13 |
| 101 | The fine structure of the Purkinje cell and its afferents inlurcher chimeric mice. Journal of Comparative Neurology, 1991, 305, 421-434. | 1.6 | 12 |
| 102 | ATM and the epigenetics of the neuronal genome. Mechanisms of Ageing and Development, 2013, 134, 434-439. | 4.6 | 12 |
| 103 | The Positive Effects of Viewing Gardens for Persons with Dementia. Journal of Alzheimer's Disease, 2018, 66, 1705-1720. | 2.6 | 11 |
| 104 | A genetic study of the suppressors of the Engrailed-1 cerebellar phenotype. Brain Research, 2007, 1140, 170-178. | 2.2 | 10 |
| 105 | Apolipoprotein E Îµ4 Mediates Myelin Breakdown by Targeting Oligodendrocytes in Sporadic Alzheimer Disease. Journal of Neuropathology and Experimental Neurology, 2022, 81, 717-730. | 1.7 | 10 |
| 106 | Purkinje cell dendrites instaggerer ? wild type mouse chimeras lack the aberrant morphologies found inlurcher ? wild type chimeras. Journal of Comparative Neurology, 1993, 331, 540-550. | 1.6 | 9 |
| 107 | Fallacies in Neuroscience: The Alzheimer's Edition. ENeuro, 2022, 9, ENEURO.0530-21.2021. | 1.9 | 9 |
| 108 | Chapter 3 Roles of Cell Lineage in the Developing Mammalian Brain. Current Topics in Developmental Biology, 1987, 21, 65-97. | 2.2 | 8 |

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| 109 | Selective Vulnerability of Neurons in Primary Cultures and in Neurodegenerative Diseases. Reviews in the Neurosciences, 2008, 19, 317-26. | 2.9 | 8 |
| 110 | Of neurons and oncogenes. Trends in Neurosciences, 1985, 8, 511-512. | 8.6 | 7 |
| 111 | Dissecting complex genetic interactions that influence theEngrailed-1 limb phenotype. Mammalian Genome, 2004, 15, 352-360. | 2.2 | 6 |
| 112 | Marine bacterial extracts as a new rich source of drugs against Alzheimerâ€™s disease. Journal of Neurochemistry, 2020, 152, 493-508. | 3.9 | 6 |
| 113 | Abnormal Purkinje cell dendrites inLurcher chimeric mice result from a deafferentation-induced atrophy. , 1996, 29, 330-340. | | 5 |
| 114 | Testing the Neuroprotective Properties of PCSO-524Â® Using a Neuronal Cell Cycle Suppression Assay. Marine Drugs, 2019, 17, 79. | 4.6 | 5 |
| 115 | The Mechanism of Relaxation by Viewing a Japanese Garden: A Pilot Study. Herd, 2020, 13, 31-43. | 1.5 | 5 |
| 116 | Thoughts on the Cerebellum as a Model for Cerebral Cortical Development and Evolution. Novartis Foundation Symposium, 2008, 228, 15-29. | 1.1 | 4 |
| 117 | Breaking news: thinking may be bad for DNA. Nature Neuroscience, 2013, 16, 518-519. | 14.8 | 4 |
| 118 | Identifying a Population of Glial Progenitors That Have Been Mistaken for Neurons in Embryonic Mouse Cortical Culture. ENeuro, 2021, 8, ENEURO.0388-20.2020. | 1.9 | 2 |
| 119 | The molecular genetics of myelin basic protein. Trends in Neurosciences, 1984, 7, 36-37. | 8.6 | 1 |
| 120 | Loopholes in the DNA contract kill neurons. Nature Neuroscience, 2017, 20, 1192-1194. | 14.8 | 1 |
| 121 | Asymmetric leftâ€“right hippocampal glutamatergic modulation of cognitive control in ApoEâ€isoform subjects is unrelated to neuroinflammation. European Journal of Neuroscience, 2021, 54, 5310-5326. | 2.6 | 1 |
| 122 | Pax-2 expression defines a subset of GABAergic interneurons and their precursors in the developing murine cerebellum. , 1999, 41, 281. | | 1 |
| 123 | The Use of Experimental Genetics to Study Pattern Formation in the Mammalian CNS. , 1992, , 99-111. | | 1 |
| 124 | Monoclonal antibodies reveal geometric relationships in the rat cerebellar cortex. Trends in Neurosciences, 1984, 7, 361-362. | 8.6 | 0 |
| 125 | Ataxia-Telangiectasia and the Biology of Ataxia-Telangiectasia Mutated (ATM). , 2015, , 1025-1032. | | 0 |
| 126 | Alterations in epigenetic regulation contribute to neurodegeneration of ataxia-telangiectasia. , 2019, , 119-133. | | 0 |

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|---|---|---|---|
| 127 | The Role of Cdk5 as a Cell Cycle Suppressor in Post-mitotic Neurons. Research and Perspectives in Alzheimer's Disease, 2011, , 17-25. | 0.1 | 0 |
| 128 | Neurodegeneration and Loss of Cell Cycle Control in Postmitotic Neurons. , 2006, , 281-297. | | 0 |