

Rachael I Scahill

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

9,245
citations

125106

35
h-index

56606

87
g-index

128
all docs

128
docs citations

128
times ranked

9760
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Timing of selective basal ganglia white matter loss in premanifest Huntington's disease. <i>NeuroImage: Clinical</i> , 2022, 33, 102927. | 1.4 | 10 |
| 2 | Potential disease-modifying therapies for Huntington's disease: lessons learned and future opportunities. <i>Lancet Neurology</i> , The, 2022, 21, 645-658. | 4.9 | 96 |
| 3 | Neurofilament light-associated connectivity in young-adult Huntington's disease is related to neuronal genes. <i>Brain</i> , 2022, 145, 3953-3967. | 3.7 | 3 |
| 4 | Fronto-striatal circuits for cognitive flexibility in far from onset Huntington's disease: evidence from the Young Adult Study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 143-149. | 0.9 | 26 |
| 5 | Diffusion imaging in Huntington's disease: comprehensive review. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2021, 92, 62-69. | 0.9 | 22 |
| 6 | Dynamics of Cortical Degeneration Over a Decade in Huntington's Disease. <i>Biological Psychiatry</i> , 2021, 89, 807-816. | 0.7 | 32 |
| 7 | Brain-derived neurotrophic factor in cerebrospinal fluid and plasma is not a biomarker for Huntington's disease. <i>Scientific Reports</i> , 2021, 11, 3481. | 1.6 | 12 |
| 8 | Altered iron and myelin in premanifest Huntington's Disease more than 20 years before clinical onset: Evidence from the cross-sectional HD Young Adult Study. <i>EBioMedicine</i> , 2021, 65, 103266. | 2.7 | 20 |
| 9 | Validating Automated Segmentation Tools in the Assessment of Caudate Atrophy in Huntington's Disease. <i>Frontiers in Neurology</i> , 2021, 12, 616272. | 1.1 | 3 |
| 10 | Kynurenine pathway metabolites in cerebrospinal fluid and blood as potential biomarkers in Huntington's disease. <i>Journal of Neurochemistry</i> , 2021, 158, 539-553. | 2.1 | 18 |
| 11 | A Multi-Study Model-Based Evaluation of the Sequence of Imaging and Clinical Biomarker Changes in Huntington's Disease. <i>Frontiers in Big Data</i> , 2021, 4, 662200. | 1.8 | 2 |
| 12 | Aberrant Striatal Value Representation in Huntington's Disease Gene Carriers 25 Years Before Onset. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 910-918. | 1.1 | 1 |
| 13 | F05...Biological and clinical characteristics of gene carriers far from predicted onset in the hd-yas study: a cross-sectional analysis. , 2021, , . | | 0 |
| 14 | Composite <scp>UHDRS</scp> Correlates With Progression of Imaging Biomarkers in Huntington's Disease. <i>Movement Disorders</i> , 2021, 36, 1259-1264. | 2.2 | 12 |
| 15 | Revealing the Timeline of Structural MRI Changes in Premanifest to Manifest Huntington Disease. <i>Neurology: Genetics</i> , 2021, 7, e617. | 0.9 | 20 |
| 16 | Recommendations to Optimize the Use of Volumetric MRI in Huntington's Disease Clinical Trials. <i>Frontiers in Neurology</i> , 2021, 12, 712565. | 1.1 | 5 |
| 17 | Volumetric MRI-Based Biomarkers in Huntington's Disease: An Evidentiary Review. <i>Frontiers in Neurology</i> , 2021, 12, 712555. | 1.1 | 3 |
| 18 | Identifying disease-associated biomarker network features through conditional graphical model. <i>Biometrics</i> , 2020, 76, 995-1006. | 0.8 | 6 |

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|----|---|-----|-----------|
| 19 | Characterizing White Matter in Huntington's Disease. <i>Movement Disorders Clinical Practice</i> , 2020, 7, 52-60. | 0.8 | 20 |
| 20 | Mutant huntingtin and neurofilament light have distinct longitudinal dynamics in Huntington's disease. <i>Science Translational Medicine</i> , 2020, 12, . | 5.8 | 64 |
| 21 | Longitudinal Structural MRI in Neurologically Healthy Adults. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1385-1399. | 1.9 | 5 |
| 22 | Biological and clinical characteristics of gene carriers far from predicted onset in the Huntington's disease Young Adult Study (HD-YAS): a cross-sectional analysis. <i>Lancet Neurology</i> , The, 2020, 19, 502-512. | 4.9 | 122 |
| 23 | Robust Markers and Sample Sizes for Multicenter Trials of Huntington Disease. <i>Annals of Neurology</i> , 2020, 87, 751-762. | 2.8 | 22 |
| 24 | The Dementias Platform UK (DPUK) Data Portal. <i>European Journal of Epidemiology</i> , 2020, 35, 601-611. | 2.5 | 45 |
| 25 | Association of CAG Repeats With Long-term Progression in Huntington Disease. <i>JAMA Neurology</i> , 2019, 76, 1375. | 4.5 | 44 |
| 26 | Multimodal characterization of the visual network in Huntington's disease gene carriers. <i>Clinical Neurophysiology</i> , 2019, 130, 2053-2059. | 0.7 | 0 |
| 27 | Cerebrospinal fluid flow dynamics in Huntington's disease evaluated by phase contrast MRI. <i>European Journal of Neuroscience</i> , 2019, 49, 1632-1639. | 1.2 | 5 |
| 28 | Automated Segmentation of Cortical Grey Matter from T1-Weighted MRI Images. <i>Journal of Visualized Experiments</i> , 2019, , . | 0.2 | 0 |
| 29 | MSH3 modifies somatic instability and disease severity in Huntington's and myotonic dystrophy type 1. <i>Brain</i> , 2019, 142, 1876-1886. | 3.7 | 114 |
| 30 | Fluid and imaging biomarkers for Huntington's disease. <i>Molecular and Cellular Neurosciences</i> , 2019, 97, 67-80. | 1.0 | 41 |
| 31 | Apathy Associated With Impaired Recognition of Happy Facial Expressions in Huntington's Disease. <i>Journal of the International Neuropsychological Society</i> , 2019, 25, 453-461. | 1.2 | 6 |
| 32 | Natural biological variation of white matter microstructure is accentuated in Huntington's disease. <i>Human Brain Mapping</i> , 2018, 39, 3516-3527. | 1.9 | 19 |
| 33 | Predicting clinical diagnosis in Huntington's disease: An imaging polymarker. <i>Annals of Neurology</i> , 2018, 83, 532-543. | 2.8 | 26 |
| 34 | Neurofilament light protein in blood predicts regional atrophy in Huntington disease. <i>Neurology</i> , 2018, 90, e717-e723. | 1.5 | 65 |
| 35 | Cross-sectional and longitudinal voxel-based grey matter asymmetries in Huntington's disease. <i>NeuroImage: Clinical</i> , 2018, 17, 312-324. | 1.4 | 23 |
| 36 | Apathy and atrophy of subcortical brain structures in Huntington's disease: A two-year follow-up study. <i>NeuroImage: Clinical</i> , 2018, 19, 66-70. | 1.4 | 14 |

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|----|--|-----|-----------|
| 37 | An image-based model of brain volume biomarker changes in Huntington's disease. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 570-582. | 1.7 | 50 |
| 38 | Cerebrospinal fluid neurogranin and TREM2 in Huntington's disease. <i>Scientific Reports</i> , 2018, 8, 4260. | 1.6 | 25 |
| 39 | D10...Neurofilament light protein in blood predicts regional atrophy in huntington's disease. , 2018, , . | | 0 |
| 40 | E11...Compensation in huntington's disease. , 2018, , . | | 0 |
| 41 | F22...Robust biomarkers of huntington's disease progression: observations from the track-hd, predict-hd and image-hd studies. , 2018, , . | | 0 |
| 42 | F45...Apathy associated with impaired recognition of happy facial expressions in huntington's disease. , 2018, , . | | 0 |
| 43 | D09...Parallel evaluation of mutant huntingtin and neurofilament light as biomarkers for huntington's disease: the hd-csf study. , 2018, , . | | 0 |
| 44 | Functional Magnetic Resonance Imaging in Huntington's Disease. <i>International Review of Neurobiology</i> , 2018, 142, 381-408. | 0.9 | 6 |
| 45 | Evaluation of mutant huntingtin and neurofilament proteins as potential markers in Huntington's disease. <i>Science Translational Medicine</i> , 2018, 10, . | 5.8 | 134 |
| 46 | Testing a longitudinal compensation model in premanifest Huntington's disease. <i>Brain</i> , 2018, 141, 2156-2166. | 3.7 | 33 |
| 47 | Magnetic Resonance Imaging in Huntington's Disease. <i>Methods in Molecular Biology</i> , 2018, 1780, 303-328. | 0.4 | 2 |
| 48 | In vivo characterization of white matter pathology in premanifest huntington's disease. <i>Annals of Neurology</i> , 2018, 84, 497-504. | 2.8 | 53 |
| 49 | E01...Modelling the trajectory of cortical atrophy in huntington's disease. , 2018, , . | | 0 |
| 50 | F21...Cag-dependent huntington's disease patterns over decades: the track-hd and track-on studies. , 2018, , . | | 0 |
| 51 | E07...Cerebrospinal fluid flow dynamics in huntington's disease using phase contrast MRI: a pilot cross-sectional study. , 2018, , . | | 0 |
| 52 | F59...Huntington's disease young adult study (HD-YAS). , 2018, , . | | 0 |
| 53 | D08...Neurofilament light protein in blood as a potential biomarker of neurodegeneration in huntington's disease: a retrospective cohort analysis. , 2018, , . | | 0 |
| 54 | White matter predicts functional connectivity in premanifest Huntington's disease. <i>Annals of Clinical and Translational Neurology</i> , 2017, 4, 106-118. | 1.7 | 38 |

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|----|--|-----|-----------|
| 55 | Neurofilament light protein in blood as a potential biomarker of neurodegeneration in Huntington's disease: a retrospective cohort analysis. <i>Lancet Neurology</i> , The, 2017, 16, 601-609. | 4.9 | 272 |
| 56 | Embodied emotion impairment in Huntington's Disease. <i>Cortex</i> , 2017, 92, 44-56. | 1.1 | 28 |
| 57 | Operationalizing compensation over time in neurodegenerative disease. <i>Brain</i> , 2017, 140, 1158-1165. | 3.7 | 62 |
| 58 | Structural and functional brain network correlates of depressive symptoms in premanifest Huntington's disease. <i>Human Brain Mapping</i> , 2017, 38, 2819-2829. | 1.9 | 28 |
| 59 | Survival End Points for Huntington Disease Trials Prior to a Motor Diagnosis. <i>JAMA Neurology</i> , 2017, 74, 1352. | 4.5 | 12 |
| 60 | Design optimization for clinical trials in early-stage manifest Huntington's disease. <i>Movement Disorders</i> , 2017, 32, 1610-1619. | 2.2 | 11 |
| 61 | 1609...Length of white matter connexions determine their rate of atrophy in premanifest huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, A9.2-A9. | 0.9 | 0 |
| 62 | Structural imaging in premanifest and manifest Huntington disease. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2017, 144, 247-261. | 1.0 | 18 |
| 63 | Recommendations for the Use of Automated Gray Matter Segmentation Tools: Evidence from Huntington's Disease. <i>Frontiers in Neurology</i> , 2017, 8, 519. | 1.1 | 31 |
| 64 | Topological length of white matter connections predicts their rate of atrophy in premanifest Huntington's disease. <i>JCI Insight</i> , 2017, 2, . | 2.3 | 37 |
| 65 | Quantification of huntingtin protein species in Huntington's disease patient leukocytes using optimised electrochemiluminescence immunoassays. <i>PLoS ONE</i> , 2017, 12, e0189891. | 1.1 | 14 |
| 66 | D16...White matter microstructure and natural biological variation in huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A39.2-A39. | 0.9 | 0 |
| 67 | D18...Brain network breakdown and pathophysiological correlates in huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A40.2-A40. | 0.9 | 0 |
| 68 | D21...Longitudinal compensation in the cognitive network in huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A42.1-A42. | 0.9 | 0 |
| 69 | Natural variation in sensory-motor white matter organization influences manifestations of Huntington's disease. <i>Human Brain Mapping</i> , 2016, 37, 4615-4628. | 1.9 | 18 |
| 70 | D9...An evaluation of methods for the volumetric measurement of grey matter in huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A37.1-A37. | 0.9 | 0 |
| 71 | D20...Operationalising compensation over time in neurodegenerative disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A41.2-A41. | 0.9 | 0 |
| 72 | D22...Compensation in preclinical huntington's disease: evidence from the track-on HD study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2016, 87, A42.2-A42. | 0.9 | 0 |

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|----|---|------|-----------|
| 73 | Visuospatial Processing Deficits Linked to Posterior Brain Regions in Premanifest and Early Stage Huntington's Disease. <i>Journal of the International Neuropsychological Society</i> , 2016, 22, 595-608. | 1.2 | 44 |
| 74 | Longitudinal Diffusion Tensor Imaging Shows Progressive Changes in White Matter in Huntington's Disease. <i>Journal of Huntington's Disease</i> , 2015, 4, 333-346. | 0.9 | 31 |
| 75 | Compensation in Preclinical Huntington's Disease: Evidence From the Track-On HD Study. <i>EBioMedicine</i> , 2015, 2, 1420-1429. | 2.7 | 122 |
| 76 | Neuropsychiatry and White Matter Microstructure in Huntington's Disease. <i>Journal of Huntington's Disease</i> , 2015, 4, 239-249. | 0.9 | 33 |
| 77 | Huntington disease. <i>Nature Reviews Disease Primers</i> , 2015, 1, 15005. | 18.1 | 1,031 |
| 78 | Increased central microglial activation associated with peripheral cytokine levels in premanifest Huntington's disease gene carriers. <i>Neurobiology of Disease</i> , 2015, 83, 115-121. | 2.1 | 133 |
| 79 | Selective vulnerability of Rich Club brain regions is an organizational principle of structural connectivity loss in Huntington's disease. <i>Brain</i> , 2015, 138, 3327-3344. | 3.7 | 96 |
| 80 | Short-interval observational data to inform clinical trial design in Huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2015, 86, 1291-1298. | 0.9 | 22 |
| 81 | The impact of occipital lobe cortical thickness on cognitive task performance: An investigation in Huntington's Disease. <i>Neuropsychologia</i> , 2015, 79, 138-146. | 0.7 | 56 |
| 82 | Huntington disease: natural history, biomarkers and prospects for therapeutics. <i>Nature Reviews Neurology</i> , 2014, 10, 204-216. | 4.9 | 873 |
| 83 | White matter integrity in premanifest and early Huntington's disease is related to caudate loss and disease progression. <i>Cortex</i> , 2014, 52, 98-112. | 1.1 | 57 |
| 84 | Inconsistent emotion recognition deficits across stimulus modalities in Huntington's disease. <i>Neuropsychologia</i> , 2014, 64, 99-104. | 0.7 | 20 |
| 85 | Biomarker development for Huntington's disease. <i>Drug Discovery Today</i> , 2014, 19, 972-979. | 3.2 | 18 |
| 86 | Correction of inter-scanner and within-subject variance in structural MRI based automated diagnosing. <i>NeuroImage</i> , 2014, 98, 405-415. | 2.1 | 40 |
| 87 | Test-Retest Reliability of Diffusion Tensor Imaging in Huntington's Disease. <i>PLOS Currents</i> , 2014, 6, . | 1.4 | 11 |
| 88 | Clinical impairment in premanifest and early Huntington's disease is associated with regionally specific atrophy. <i>Human Brain Mapping</i> , 2013, 34, 519-529. | 1.9 | 113 |
| 89 | Evaluation of multi-modal, multi-site neuroimaging measures in Huntington's disease: Baseline results from the PADDINGTON study. <i>NeuroImage: Clinical</i> , 2013, 2, 204-211. | 1.4 | 34 |
| 90 | Structural MRI in Huntington's disease and recommendations for its potential use in clinical trials. <i>Neuroscience and Biobehavioral Reviews</i> , 2013, 37, 480-490. | 2.9 | 81 |

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|-----|---|-----|-----------|
| 91 | Predictors of phenotypic progression and disease onset in premanifest and early-stage Huntington's disease in the TRACK-HD study: analysis of 36-month observational data. <i>Lancet Neurology</i> , The, 2013, 12, 637-649. | 4.9 | 704 |
| 92 | Corpus Callosal Atrophy in Premanifest and Early Huntington's Disease. <i>Journal of Huntington's Disease</i> , 2013, 2, 517-526. | 0.9 | 29 |
| 93 | Recent advances in imaging the onset and progression of Huntington's disease. <i>Neurodegenerative Disease Management</i> , 2013, 3, 241-252. | 1.2 | 0 |
| 94 | Genetic Influences on Atrophy Patterns in Familial Alzheimer's Disease: A Comparison of APP and PSEN1 Mutations. <i>Journal of Alzheimer's Disease</i> , 2013, 35, 199-212. | 1.2 | 36 |
| 95 | Longitudinal Neuroimaging Biomarkers in Huntington's Disease. <i>Journal of Huntington's Disease</i> , 2013, 2, 21-39. | 0.9 | 16 |
| 96 | An event-based model for disease progression and its application in familial Alzheimer's disease and Huntington's disease. <i>NeuroImage</i> , 2012, 60, 1880-1889. | 2.1 | 192 |
| 97 | Biomarkers for Huntington's disease: an update. <i>Expert Opinion on Medical Diagnostics</i> , 2012, 6, 371-375. | 1.6 | 9 |
| 98 | Potential endpoints for clinical trials in premanifest and early Huntington's disease in the TRACK-HD study: analysis of 24 month observational data. <i>Lancet Neurology</i> , The, 2012, 11, 42-53. | 4.9 | 479 |
| 99 | Biological and clinical changes in premanifest and early stage Huntington's disease in the TRACK-HD study: the 12-month longitudinal analysis. <i>Lancet Neurology</i> , The, 2011, 10, 31-42. | 4.9 | 530 |
| 100 | Early atrophy of pallidum and accumbens nucleus in Huntington's disease. <i>Journal of Neurology</i> , 2011, 258, 412-420. | 1.8 | 121 |
| 101 | The structural involvement of the cingulate cortex in premanifest and early Huntington's disease. <i>Movement Disorders</i> , 2011, 26, 1684-1690. | 2.2 | 56 |
| 102 | The progression of regional atrophy in premanifest and early Huntington's disease: a longitudinal voxel-based morphometry study. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, 756-763. | 0.9 | 105 |
| 103 | Biological and clinical manifestations of Huntington's disease in the longitudinal TRACK-HD study: cross-sectional analysis of baseline data. <i>Lancet Neurology</i> , The, 2009, 8, 791-801. | 4.9 | 856 |
| 104 | Automated quantification of caudate atrophy by local registration of serial MRI: Evaluation and application in Huntington's disease. <i>NeuroImage</i> , 2009, 47, 1659-1665. | 2.1 | 46 |
| 105 | Defective emotion recognition in early HD is neuropsychologically and anatomically generic. <i>Neuropsychologia</i> , 2008, 46, 2152-2160. | 0.7 | 93 |
| 106 | P3-062 Predictors and correlates of inter-individual variation in MRI derived atrophy rates in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2004, 25, S369. | 1.5 | 0 |
| 107 | A Longitudinal Study of Brain Volume Changes in Normal Aging Using Serial Registered Magnetic Resonance Imaging. <i>Archives of Neurology</i> , 2003, 60, 989. | 4.9 | 736 |
| 108 | Mapping the evolution of regional atrophy in Alzheimer's disease: Unbiased analysis of fluid-registered serial MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4703-4707. | 3.3 | 613 |

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|-----|---|-----|-----------|
| 109 | Patterns of cerebral atrophy in Alzheimer's disease and semantic dementia: A comparison of voxel based morphometry and region of interest measurements. <i>NeuroImage</i> , 2001, 13, 317. | 2.1 | 0 |
| 110 | Automated Hippocampal Segmentation by Regional Fluid Registration of Serial MRI: Validation and Application in Alzheimer.s Disease. <i>Lecture Notes in Computer Science</i> , 2001, , 1298-1299. | 1.0 | 0 |