Symptom interconnectivity in multiple sclerosis: A narrative review of potential underlying biological disease processes – *supplementary material*

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Table S1. List of references identified in the literature search

Title	DOI	PMID	CI	Fatigue	Depression	Pain	Neuroanatomy	Inflammation	HPA Axis	Monoamines	Other
Benign multiple sclerosis: a new definition of this entity is needed	10.1177/1352458511419702	21865415	CI	Fatigue	Depression	Pain	Neuroanatomy				
Cortical thickness and surface area relate to specific symptoms in early relapsing-remitting multiple sciences is	10.1177/1352458514543811	25139946	CI	Fatigue	Depression		Neuroanatomy				4
Default mode network changes in multiple sciences: a link between depression and cognitive impairment? Structural correlates for fatious in early relansing remitting multiple sciences.	10.1111/ene.13112 10.1007/s00330-015-3857-2	26026721	CI	Fatigue	Depression		Neuroanatomy				-
Fatigue and cognition: Pupillary responses to problem-solving in early multiple sclerosis patients	10.1002/brb3.717	28729927	CI	Fatigue			Neuroanatomy				
Functional Magnetic Resonance Imaging Correlations Between Fatigue and Cognitive Performance in Patients With Relapsing Remitting Multiple Sclerosis	10.3389/fpsyt.2019.00754	31749716	CI	Fatigue			Neuroanatomy				
The effect of morphological and microstructural integrity of the corpus callosum on cognition, fatigue and depression in mildly disabled MS patients	10.1016/j.mri.2017.04.010	28438714	CI	Fatique			Neuroanatomy				4
The relationship between total and regional corpus callosum atrophy, cognitive impairment and tatigue in multiple scienosis patients Duality of the in-multiple scienosis is associated with besing burgen and brain volume measures.	10.1177/1352458513496880 10.1212/WNL.0b013e3181a609f8	23959709	CI	Fatigue			Neuroanatomy				
Water of the first matter correlates of fatious and contrive impairment in benion multiple sciencesis	10.1016/i.ins.2013.04.005	23643443	CI	Fatigue			Neuroanatomy				
Health-related quality of life, neuropsychiatric symptoms and structural brain changes in clinically isolated syndrome	10.1371/journal.pone.0200254	29979757	CI		Depression		Neuroanatomy				
Decreased hippocampal volume, indirectly measured, is associated with depressive symptoms and consolidation deficits in multiple sclerosis	10.1177/1352458511403530	21546523	CI		Depression		Neuroanatomy				4
Structural brain correlates of emotional disorder in multiple sciences Craumater transities — compiline impairment and devression in patients with multiple sciences	10.1093/brain/109.4.585	3/30806	CI		Depression		Neuroanatomy				4
Orey maker down with Common section and depression in patients with money sources and personality Disorder in Multiple Sclerosis	10.1111/i.1552-6569.2004.tb00277.x	15228758	CI		Depression		Neuroanatomy				
Association of cognitive impairment and lesion volumes in multiple sclerosisa MRI study	10.1016/j.clineuro.2014.09.019	25459243	CI				Neuroanatomy				
Association of MRI metrics and cognitive impairment in radiologically isolated syndromes	10.1212/WNL.0b013e31824528c9	22262744	CI				Neuroanatomy				
Cognitive and brain reserve in multiple sclerosis-A cross-sectional study	10.1016/j.msard.2019.07.027	313/4461	CI				Neuroanatomy				4
Cognitive rangeolinity is independent of subjective cognitive range and wood in whole sciencesis Cognitive processing speed in multiple sciencias incide and incide: association with nationt-reported outcomes employment and magnetic resonance imaging metrics	10.1097/WNN.0000000000000228	32496296	CI				Neuroanatomy				-
Contribution of cortical and white matter lesions to cognitive impairment in multiple sclerosis	10.1177/1352458513475490	23459568	CI				Neuroanatomy				
Contribution of cortical lesions to cognitive impairment in Japanese patients with multiple sclerosis	10.1038/s41598-020-61012-3	32251297	CI				Neuroanatomy				
Education, and the balance between dynamic and stationary functional connectivity jointly support executive functions in relapsing-remitting multiple sclerosis	10.1002/hbm.24343	30240533	CI				Neuroanatomy				4
Leven reaces poendar and response une give evidence for a physiological reserve in conflute functioning in relapsing-remitting multiple sciences Immained self-Other Distinction and subordical Crav-Matter Atterations Characterize Socio-Coontive Distuthances in Multiple Sciences	10.1010/j.jns.2015.06.025 10.3389/fneur 2019.00525	2011/301	CI				Neuroanatomy				
Quality and quantity of diffuse and focal white matter disease and cognitive disability of patients with multiple sclerosis	10.1111/j.1552-6569.2010.00488.x	20626570	CI				Neuroanatomy				
Reduced magnetisation transfer ratio in cognitively impaired patients at the very early stage of multiple sclerosis: a prospective, multicenter, cross-sectional study	10.1136/bmjopen-2013-004409	24722197	CI				Neuroanatomy				
Relationship between Social Cognition and traditional cognitive impairment in Progressive Multiple Sclerosis and possible implicated neuroanatomical regions	10.1016/j.msard.2018.01.013	29414284	CI				Neuroanatomy				4
Subjective cognitive concern in multiple sciences is associated with reduced malanic and cortical gray matter volumes Thalanic atrophy correlates with dysfunctional impulsivity in multiple sciences	10.11///205521/31982/618 10.1016/i.msard.2020.102374	32652509	CI				Neuroanatomy				
The influence of posterior visual pathway damage on visual information processing speed in multiple sclerosis	10.1177/1352458516676642	28273763	CI				Neuroanatomy				
On the relation between self-reported cognitive fatigue and the posterior hypothalamic-brainstem network	10.1111/ene.12815	26278274	CI				Neuroanatomy				
Third ventricular enlargement in early stages of multiple sclerosis is a predictor of motor and neuropsychological deficits: a cross-sectional study	10.1136/bmjopen-2013-003582	24022394	CI				Neuroanatomy				4
Iranslational validity of PASA1 and the effect of tatigue and mood in patients with relapsing remitting MS: A functional MRI study	10.1111/jep.12913	29611255	CI				Neuroanatomy				4
Recipcial contex autophy predicts cognitive impainment in multiple sclerosis	10.1170/jiip.14.1.44	16091537	CI				Neuroanatomy				
Evidence for a direct association between cortical atrophy and cognitive impairment in relapsing-remitting MS	10.1016/j.neuroimage.2005.10.032	16360321	CI				Neuroanatomy				
Thalamic atrophy and cognition in multiple sclerosis	10.1212/01.wnl.0000276992.17011.b5	17875909	CI				Neuroanatomy				
Regional hippocampal atrophy in multiple sclerosis	10.1093/brain/awn030	18375977	CI				Neuroanatomy				4
basai gangia, maamus ano meoconical autophy predicang sowed cognitive processing in multiple sciencesis Cortical lesions and atrophy associated with contribute impairment in relation-arenithing multiple sciences	10.1007/s00415-011-0147-1 10.1001/archneurol 2009 174	19752305	CI				Neuroanatomy				
Regional DTI differences in multiple sclerosis patients	10.1016/j.neuroimage.2008.10.026	19027076	CI				Neuroanatomy				
Fornix damage limits verbal memory functional compensation in multiple sclerosis	10.1016/j.neuroimage.2011.09.071	22001266	CI				Neuroanatomy				
Diffusion tensor MRI tractography and cognitive impairment in multiple sclerosis	10.1212/WNL.0b013e31824d5859	22377806	CI				Neuroanatomy				4
Increased functional connectivity at rests increasing of cognitive impairment in montple sciences Assessing hear connectivity at rests is clinically relevant in a grant multiple sciences assessing the science of th	10.1073/pnas.1110024106	22005776	CI				Neuroanatomy				
Altered inter-subregion connectivity of the default mode network in relaping remitting multiple sclerosis; a functional and structural connectivity study	10.1371/journal.pone.0101198	24999807	CI				Neuroanatomy				
The link between resting-state functional connectivity and cognition in MS patients	10.1177/1352458513495584	23828871	CI				Neuroanatomy				
Brain networks disconnection in early multiple sclerosis cognitive deficits: an anatomofunctional study	10.1002/hbm.22505	24687771	CI				Neuroanatomy				4
11 cortical hypointensities and their association with ecogotic version in multiple sclerosis	10.1177/1352458510377223 10.1212/wpl 39.2.161	20699284	CI				Neuroanatomy				4
Changes in the normal appearing brain tissue and cognitive impairment in multiple sclerosis	10.1136/jnnp.68.2.157	10644780	CI				Neuroanatomy				
Serial neuropsychological assessment and magnetic resonance imaging analysis in multiple sclerosis	10.1001/archneur.1997.00550200074013	9267977	CI				Neuroanatomy				
Prediction of neuropsychological impairment in multiple sclerosis: comparison of conventional magnetic resonance imaging measures of atrophy and lesion burden	10.1001/archneur.61.2.226	14967771	CI				Neuroanatomy				4
MMI correlates of cognitive impairment in childhood-onset multiple sclerosis. White matter intervity and math participants and math participants and mathematical and mathematical and mathematical and	10.1037/a0022051 10.1097/WNR.0b013e32834dc301	21534686	CI				Neuroanatomy				4
Volice market integrity and man performance in periate market sectors	10.1177/1352458510384009	20956399	CI				Neuroanatomy				
Frequency of cognitive impairment dramatically increases during the first 5 years of multiple sclerosis	10.1136/jnnp.2010.213744	20971755	CI				Neuroanatomy				
Cognitive impairment at the onset of multiple sclerosis: relationship to lesion location	10.1177/1352458511398265	21372116	CI				Neuroanatomy				4
Lognition in multiple sciencesis: relevance of lesions, brain atrophy and proton MR spectroscopy Eadvi inaction predicts later continue innaimory processive multiple sciences	10.1007/s10072-010-0370-x 10.1212/WNI_0b013e3181cff6cc	20635111	CI				Neuroanatomy				
Carry marging protects rater cognitive impairment in primary progressive managements and isability	10 1177/1352458511404916	21586487	CI				Neuroanatomy				
Identification and clinical impact of multiple sclerosis cortical lesions as assessed by routine 3T MR imaging	10.3174/ajnr.A2340	21310857	CI				Neuroanatomy				
Intracortical lesions by 3T magnetic resonance imaging and correlation with cognitive impairment in multiple sclerosis	10.1177/1352458511405561	21543552	CI				Neuroanatomy				4
ustry maket gamage and over all cognitive infpartment in primary progressive multiple sciences. Constitue innariment in multiple sciences is associated to different patterns of draw matter atrophy according to clinical phenotype.	10.11///1352458511410341 10.1002/bbm 21125	20740643	CI				Neuroanatomy				
Cognitive angust that in the control of a based and on an other participation of gray matching or gray matching to entrol on proceeding to entrol on p	10.1111/j.1600-0404.2011.01574.x	21793807	CI				Neuroanatomy				
Diffusion tensor imaging and cognitive speed in children with multiple sclerosis	10.1016/j.jns.2011.07.019	21821263	CI				Neuroanatomy				
Functional magnetic resonance imaging correlates of cognitive performance in patients with a clinically isolated syndrome suggestive of multiple sclerosis at presentation: an activa	10.1177/1352458511417744	21828200	CI				Neuroanatomy				4
r unkushal adaptive unanges within the httpp://dampaintemory system or patients with multiple Sciencesis	10.1002/ribm.21359 10.1212/W/NL.0b013e3181f612e3	20921510	CI				Neuroanatomy				4
Thalamic involvement and its impact on clinical disability in patients with multiple sclerosis: a diffusion tensor imaging study at 3T	10.3174/ajnr.A1564	19369608	CI				Neuroanatomy				
Characterization of thalamic lesions and their correlates in multiple sclerosis by ultra-high-field MRI	10.1177/1352458520932804	32584159	CI				Neuroanatomy				
Clinical significance of atrophy and white matter mean diffusivity within the thalamus of multiple sclerosis patients	10.1177/1352458513478675	23459570	CI				Neuroanatomy				4
In on and volume in use usep gray matter: association with cognitive impairment in multiple sclerosis Sex-specific extent and severity of white matter damage in multiple sclerosis; implications for comitive decline	10.3174/ajnr.A3998 10.1002/bbm 22332	23982918	CI				Neuroanatomy				
Memory in multiple sclerosis is linked to glutanate concentration in grey matter regions	10.1136/jnnp-2013-306662	24431465	CI				Neuroanatomy				
Measures of Thalamic Integrity are Associated with Cognitive Functioning in Fingolimod-treated Multiple Sclerosis Patients	10.1016/j.msard.2020.102635	33260053	CI				Neuroanatomy				
Thatamic white matter in multiple sclerosis: A combined diffusion-tensor imaging and quantitative susceptibility mapping study	10.1002/hbm.24227	29923266	CI				Neuroanatomy				4
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Localized atrophy of the thalamus and slowed cognitive processing speed in MS patients	10.1177/1352458515616204	26541795	CI				Neuroanatomy				
Regional changes in thalamic shape and volume are related to cognitive performance in multiple sclerosis	10.1177/1352458519892552	31793399	CI				Neuroanatomy				
Structural connectivity-defined thalamic subregions have different functional connectivity adhormalities in multiple sclerosis patients: Implications for clinical correlations	10.1002/hbm.23805	28881433	CI				Neuroanatomy				4
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FLAIR lesion in multiple sclerosis: relation to processing speed and verbal memory	10.1017/s1355617705050253	15962708	CI				Neuroanatomy				
Statistical mapping analysis of lesion location and neurological disability in multiple sclerosis: application to 452 patient data sets	10.1016/s1053-8119(03)00117-4	12880785	CI				Neuroanatomy				
Intellectual enrichment is linked to cerebral efficiency in multiple sclerosis: functional magnetic resonance imaging evidence for cognitive reserve	10.1093/brain/awp307 10.1092/brain/awp375	20008455	CI				Neuroanatomy				4
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Nidespread cortical thinning characterizes patients with MS with mild cognitive impairment	10.1212/WNL.0b013e3181cbcd03	20101038 CI		Neuroanatomy		
Verwory performance in multiple sclerosis patients correlates with central brain atrophy	10.1191/1352458506ms1286oa	16900756 CI		Neuroanatomy		
Relevance of brain lesion location to cognition in relapsing multiple sclerosis	10 1371/journal pone 0044826	23144775 CI		Neuroanatomy		
Predictive value of different conventional and non-conventional MRI-parameters for specific domains of cognitive function in multiple sclerosis	10 1016/i nicl 2015 02 023	25844323 CI		Neuroanatomy		
VIRI predictors of cognitive outcome in early multiple sclerosis	10 1212/WNI_0b013e318212a8be	21444901 CI		Neuroanatomy		
Brain pathways of verbal working memory: a lesion-function correlation study	10 1016/i neuroimage 2009 04 054	19393745 CI		Neuroanatomy		
Conditive impairment as marker of diffuse brain abnormalities in early relansing remitting multiple sclerosis	10 1136/inpp 2004 045872	15774439 CI		Neuroanatomy		
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bandour den formation and include a construction of constitute impairment in multiple sclerosis	10 1212/W/NL 00000000001285	25616483 CI		Neuroanatomy		
Training structure and function determine severity of orginate implainment in multiple solutions	10.1212/01.wpl.000000000001203	16524104 CI		Neuroanatomy		
Si ay and white matter brain autophy and neuropsychological impainment in multiple sciences	10.1212/01.WIII.0000201230.93300.09	0055704 CI		Neuroanatomy		
Executive function in multiple sciences. The fole of inormal lobe pathology	10.1093/blain/120.1.15	9055794 CI		Neuroanatomy		
Kegional magnetic resonance imaging lesion burden and cognitive function in multiple scierosis: a longitudinal study	10.1001/arcnneur.58.1.115	11176944 CI		Neuroanatomy		
Cognitive impairment in MS: impact of white matter integrity, gray matter volume, and lesions	10.1212/WNL.0b013e31828726cc	23468546 CI		Neuroanatomy		
Superior temporal gyrus thickness correlates with cognitive performance in multiple sclerosis	10.1007/s00429-012-0440-3	22790785 CI		Neuroanatomy		
Compensatory cortical activation observed by fMRI during a cognitive task at the earliest stage of MS	10.1002/hbm.10128	14505331 CI		Neuroanatomy		
Efficiency of cognitive control recruitment in the very early stage of multiple sclerosis: a one-year fMRI follow-up study	10.1177/1352458508089360	18573836 CI		Neuroanatomy		
Neocortical atrophy, third ventricular width, and cognitive dysfunction in multiple sclerosis	10.1001/archneur.63.9.1301	16966509 CI		Neuroanatomy		
Diffusion-weighted imaging predicts cognitive impairment in multiple sclerosis	10.1177/1352458507075592	17613599 CI		Neuroanatomy		
The correlation between ventricular diameter measured by transcranial sonography and clinical disability and cognitive dysfunction in patients with multiple sclerosis	10.1001/archneur.57.9.1289	10987895 CI		Neuroanatomy		
Bicaudate ratio as a magnetic resonance imaging marker of brain atrophy in multiple sclerosis	10.1001/archneur.59.2.275	11843699 CI		Neuroanatomy		
Structural connectivity influences brain activation during PVSAT in Multiple Sciences	10 1016/i neuroimage 2008 08 015	18790063 CI		Neuroanatomy		
Conditive immainment is associated with subcortical manufic reasonance imaging or you matter T2 hypointensity in multiple sclerosis	10 1191/135248506ms1301oa	16900757 CI		Neuroanatomy		
Segment in particular descented and object traditional connectivity in national with multifield extension	10 1003/brain/aw/b670	16251214 CL		Neuroenstemy		
veduced biam directorial reserve and altered functional connectivity in platents with molitiple sciences	10.1093/brain/490.7.1241	10201214 01		Neuroanatomy		
Sognitive function in primary progressive and variational progressive multiple sciences. A controlled study with write contrates	10.1093/brain/122.7.1341	10300799 CI		Neuroanatomy		
cerebral activation patterns during working memory performance in multiple sciences using evicit	10.1060/136033990513609	15614441 CI		Neuroanatomy		
Sian magnetic resonance imaging correlates of cognitive impairment in multiple sciences	10.1010/0022-510X(93)90212-H	8340796 CI		Neuroanatomy		
i ne unique impact of changes in normal appearing brain tissue on cognitive dystunction in secondary progressive multiple scierosis patients	10.1191/1352458504ms10950a	15584486 CI		Neuroanatomy		
correlates or executive function in multiple sclerosis: the use of magnetic resonance spectroscopy as an index of focal pathology	10.11/6/jnp.11.1.45	9990555 CI		Neuroanatomy		
correlation or neuropsychological and Miki findings in chronic/progressive multiple sclerosis	10.1212/wnl.38.12.1826	3194059 CI		Neuroanatomy		
Cognitive dysfunction in early multiple scierosis: altered centrality derived from resting-state functional connectivity using magneto-encephalography	10.1371/journal.pone.0042087	22848712 CI		Neuroanatomy		
Neuropsychological impairment in multiple sclerosis patients: the role of (juxta)cortical lesion on FLAIR	10.1177/135245850000600410	10962549 CI		Neuroanatomy		
MRI evidence of brain reorganization during attention and memory tasks in multiple sclerosis	10.1016/j.neuroimage.2003.10.004	15006652 CI		Neuroanatomy		
Correlation of global N-acetyl aspartate with cognitive impairment in multiple sclerosis	10.1001/archneur.63.4.533	16606765 CI		Neuroanatomy		
Corpus callosum damage and cognitive dysfunction in benign MS	10.1002/hbm.20692	19067325 CI		Neuroanatomy		
Senotype-Phenotype correlations in multiple sclerosis: HLA genes influence disease severity inferred by 1HMR spectroscopy and MRI measures	10.1093/brain/awn301	19022862 CI		Neuroanatomy		
Cognitive Dysfunction Lateralizes With NAA in Multiple Sclerosis	10 1207/S15324826AN0803 4	11686650 CI		Neuroanatomy		
Potentially adaptive functional changes in cognitive processing for patients with multiple sclerosis and their acute modulation by rivastigmine	10 1093/brain/awo284	12958082 CI		Neuroanatomy		
Analysis of impairment related functional architecture in MS nations during performance of different attention tasks	10.1007/s00415-003-1025-0	12700913 CI		Neuroanatomy		
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Relation between MR abnormalities and patterns of cognitive impairment in multiple scierosis	10.1212/WNL.50.6.1601	9633700 CI		Neuroanatomy		
Cortical/subcortical disease burden and cognitive impairment in patients with multiple sclerosis		10696031 CI		Neuroanatomy		
Cognitive dysfunction in patients with mildly disabling relapsing-remitting multiple sclerosis: an exploratory study with diffusion tensor MR imaging	10.1016/S0022-510X(01)00690-6	11897239 CI		Neuroanatomy		
Brain atrophy as a marker of cognitive impairment in mildly disabling relapsing-remitting multiple sclerosis	10.1111/j.1468-1331.2008.02259.x	18727673 CI		Neuroanatomy		
Functional imaging during covert auditory attention in multiple sclerosis	10.1016/j.jns.2003.10.019	14759627 CI		Neuroanatomy		
	10 1016/i inc 2000 02 266					
MRI investigation of disinhibition in cognitively impaired patients with multiple sclerosis	10.1010/j.j115.2009.02.300	19344919 CI		Neuroanatomy		
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Brain activation in multiple sclerosis: A bold fmri study of the effects of fatiouing hand exercise	10.1177/1352458508100034	19299441		Fatique			Neuroanatomy				
Thalamo-striato-cortical determinants to fatigue in multiple sclerosis	10.1002/brb3.181	24363974		Fatique			Neuroanatomy				
Mental fatioue alters the pattern and increases the volume of cerebral activation required for a motor task in multiple sclerosis patients with fatigue	10 1111/i 1468-1331 2008 02090 x	18353127		Eatique			Neuroanatomy				
Functional magnetic resonance imaging correlates of fatigue in multiple sclerosis	10 1006/nimg 2001 1011	11848698		Eatique			Neuroanatomy				
Examination of cognitive fatigue in multiple sclerosis using functional magnetic resonance imaging and diffusion tensor imaging	10 1371/journal pone 0078811	24223850		Eatique			Neuroanatomy				
Hypothalamic involvement assessed by T1 relaxation time in patients with relapsing-remitting multiple sclerosis	10.1177/1352458509350306	19995847		Fatique			Neuroanatomy				
Fatigue in multiple sciences: Associations with clinical MRI and CSE parameters	10 1177/1352458517712078	28539075		Fatique			Neuroanatomy				
Atrophy of reward-related striatal structures in fationed MS patients is independent of physical disability	10 1177/1352458515599451	26238465		Eatique			Neuroanatomy				
Frontal petworks play a role in fatique perception in multiple sclerosis	10 1037/a0019585	20528076		Eatique			Neuroanatomy				
Reduced ducase metabolism in the frontal contex and basal gandla of multiple sclerosis patients with fatigue: a 18F-fluorodeoxyglucose positron emission tomography study	10 1212/wnl 48 6 1566	9191767		Fatique			Neuroanatomy				
Aftered basic control for the second state sta	10 1177/1352458514555784	25392321		Fatique			Neuroanatomy				
Multiple sciences, related fatious: Altered restinguistate functional connectivity of the ventral striatum and dosolateral prefrontal cortex	10 1177/1352458518758911	29464981		Fatique			Neuroanatomy				
Terrotostriatal network activation leads to leads fatione in multiple sciencesis	10 1177/1352458517717087	28627957		Fatique			Neuroanatomy				
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The basel gandia: a substrate for fating in multiple sclerosis patents with and window symptoms of radge	10.1007/e00234-007-0304-3	17055232		Eatique			Neuroenetemy				
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	10.1148/radiol.14140417	24027473		Eatique			Neuroenetemy				
Tregional da noi giodal orani damage contributes to langue in maniple sectors. Hurannonactivity of the descalateral professional onder following mantal affect in multiple sclaresis estimate with contribue fatinua.	10.1177/1352/58515625806	26846088		Eatique			Neuroanatomy				
Type connectivity of the consolicity and function of the context following metal endors in multiple solicities patients with cognitive ranged	10.1177/1252450515025000	20040300		Fatigue			Neuroanatomy				
Automaticewical conclusion contained set of adgreet in multiple sciences:	10.1177/1002400012440010	20220866		Eatique			Neuroanatomy				
Analysis of the name in multiple solutions, a combined nearophytological and nearolingging approach (KT)	10.1016/i prl 2010 07 014	21163102		raugue		Dain	Neuroanatom				
Analysis of the pain in multiple sciencis patients Impact of depression of the pain in multiple sciences patients and alpha measure of patients and alpha measure of patients and alpha measure of patients and the patients and t	10.1010/j.111.2010.07.014	21103193			Depression	Falli	Neuroanatomy				
impactor depression, rangue, and giobar measure of conduct volume on cognitive minantent in manuple solerosis	40 4444/are 40004	23601033			Depression		Neuroanatomy				
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Lesion's in une let allocate fascicitus region and oppressive symptoms in multiple sole losis	10.1212/WIII.45.4.1105	11069106			Depression		Neuroanatomy				
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Subcrata oran advormanues in multiple sciences patients with major depression	10.1212/01.W11.0000110316.12066.00	14961175			Depression		Neuroanatomy				
Depressive symptoms and write changes in multiple sciences	10.1040/j.1406-1331.2002.00442.X	12220360			Depression		Neuroanatomy				
Lesion patient in patients with multiple scienciss and depression	10.1177/1352456500000000304	106/1620			Depression		Neuroanatomy				
Unrusion tensor imaging abnormalities in depressed multiple sciences patients	10.1177/1352458509355461	20007425			Depression		Neuroanatomy				
Detection or allered hippocampa morphology in multiple sciences associated depression using automated surface mesh modeling	10.1002/1011.22154	22047919			Depression		Neuroanatomy				
Involvement of the limbic system in multiple sciences patients with depressive disorders	10.1016/0006-3223(95)00291-X	9162210			Depression		Neuroanatomy				
Neuropological mechanisms underlying emotional processing in relapising-remiting multiple sciences	10.1093/brain/awp095	19420090			Depression		Neuroanatomy				
hippocaribal vetrominammatori, Punctorial Confectivity, and Depressive Symptoms in Multiple Sciencesis	10.1016/j.biopsych.2015.11.022	20009249			Depression		Neuroanatomy				
Depressive symptoms in multiple sciences from an in two study with 1555	10.1100/2014/140400	246/705/			Depression		Neuroanatomy				
Subcontra connectornic anerations in the impic system of multiple sciences patients with major depression	10.1177/1352456514556474	20033294			Depression		Neuroanatomy				
Hippocampai-DMN disconnectivity in MS is related to WM lesions and depression	10.1002/nbm.22992	26366641			Depression		Neuroanatomy				
individual alinerences in depression are associated with abnormal function of the innois system in multiple sciencisis patients	10.1177/1352456515600967	20453060			Depression		Neuroanatomy				
Cross-Sectional and Longitudinal Relationships between Depressive Symptoms and Brain Atrophy in MS Patients	10.3389/fnnum.2016.00622	28018194			Depression	D :	Neuroanatomy				
Sensory Function and Chronic Pain in Multiple Sciencesis	10.1155/2016/1924174	29049639				Pain	Neuroanatomy				
Ingeminal neuralgia and pain related to multiple sciencesis	10.1016/j.pain.2008.12.026	19171430				Pain	Neuroanatomy				
Chronic pair disrupts the reward circuitry in multiple sciencesis	10.1111/ejn.132/2	2/1/8661	CI	Estimus		Pain	Neuroanatomy	1.0 0			
Paulgue in multiple scierosis: an example of cytokine metalated sickness behaviour?	10.1136/jnnp.2005.065605	16361569		Faugue				Inflammation	HPA axis		
Andered cytokine responses to cognitive stress in multiple sciences patients with hangue	10.1191/135245650501011\$11290a	15/3220/		Faugue				Inflammation			
Correlates of cognitive dystruction in multiple sciencis	10.1016/j.bbl.2010.05.006	20021041	G	5.0				Inflammation			
Endocrine and immune substrates or depressive symptoms and ratigue in multiple sciencis patients with comorbid major depression	10.1136/jnnp.2010.230029	21296901		Fatigue	Depression			Inflammation	HPA axis		
Sumilared peripheral production of internet of garmina is related to ranged and depression in multiple sciences	10.1016/j.clineuro.2012.02.046	22425464		Faugue	Depression			Inflammation			
Depression and tatigue in multiple sciences: Relation to exposure to violence and cerebrospinal fluid immunomarkers	10.1016/J.psyneuen.2018.01.002	29324301		Fatigue	Depression			Inflammation			
Patiglie in patients with multiple sciences; is it related to pro- and anti-inframmatory cytokines?	10.1155/2015/758314	25/22532		Fatigue				Inflammation			
Cytokine mikiva expression in patients with multiple scierosis and tatigue	10.1191/1352458504ms9910a	15124762		Fatigue				Inflammation			
A prospective study of depression and immune dysregulation in multiple sciencosis	10.1001/archneur.1992.00530270052016	1530625			Depression			Inflammation			
Expression of tumor necrosis factor-appra and interferon-gamma mixtua in blood cens correlates with depression scores during an acute attack in patients with multiple sciences is Name the operation of tumor necrosis factor-appra and interferon-gamma mixtua in blood cens correlates with depression scores during an acute attack in patients with multiple sciences is Name the operation of tumor necrosis factor appraised by the necessary of the operation of the operation of the operation of the operation of tumor necrosis factor appraised by the operation of tumor necrosis factor apprai	10.1016/\$0306-4530(01)00066-3	12064660			Depression			Inflammation			
Nucleasance Subsistion of the hyperbalance of	10.1007/s12035-015-9443-4	20399644		Entique	Depression			Inflammation	LIDA mi		
raugue and regulation or the hypotralianto-pitulially-failed at an infinituliple science set and the set of th	10.1001/arcmeur.oz.z.2/7	10/10050		Faugue					HPA axis		
raugue in progressive multiple sciencisti is associated with row levels or denyoroeplandrosterone	10.1191/130248505MS132208	10900763		Failgue					HPA axis		
Circadian cortiso and raugue severity in reapsing-remitting multiple sciencisis	10.1016/J.psyneuen.2015.03.010	2581/406		⊢atigue					HPA axis		
Circadian coruso, depressive symptoms and heurological impairment in early multiple scienosis	10.1016/J.psyneuen.2011.04.004	21621332		5.0	Depression				HPA axis		
Reward responsiveness and range in multiple sciencisis	10.11/7/1352458512451509	22123570		Fatigue						Monoamines	
Association of a deficit of anousal with natigue in multiple sciences; effect or modarini	10.1016/j.neuropnarm.2012.06.036	22/66394		⊢atigue	Deserve					wonoamines	
Cerebrospiral nulo kynurelinies in mulipie scierosis, relation to disease course and neurocognitive symptoms	10.1010/J.00J.2015.07.016	20169078		Entique	Depression	Doin				Monoamines	Othe
ractors associated with large in two minal ITRACI Y diseases with ALP*4 and MUCS anticodes	10.1002/8013.51006	3210/051		Faugue	Depression	Pain					Other
nigine revers or reported sur exposure, and not vitamin D status, are associated with less depressive symptoms and tatgue in multiple sclerosis	10.1111/ane.12155	23/63464		⊢atigue	Depression						Other
rrorearm muscle milochononal capacity and resting oxygen uptake: Relationship to symptomatic tatigue in persons with multiple scienosis	10.11/7/20552173211028875	34202/86		Fatigue							Other