

# CITATION REPORT

List of articles citing

## Characterization and propagation of uncertainty in diffusion-weighted MR imaging

DOI: 10.1002/mrm.10609

Magnetic Resonance in Medicine, 2003, 50, 1077-88.

**Source:** <https://exaly.com/paper-pdf/35064265/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2253	Perovskites II, Oxides with Corundum, Ilmenite and Amorphous Structures. <b>1994,</b>		1
2252	High Angular Resolution Diffusion Imaging (HARDI). 1-25		12
2251	White Matter Tractography and Diffusion-Weighted Imaging. 1-9		1
2250	Changes in connectivity profiles define functionally distinct regions in human medial frontal cortex. <b>2004,</b> 101, 13335-40		564
2249	Q-ball imaging. <i>Magnetic Resonance in Medicine</i> , <b>2004,</b> 52, 1358-72	4.4	1471
2248	New approaches for exploring anatomical and functional connectivity in the human brain. <b>2004,</b> 56, 613-9		160
2247	Current awareness in NMR in biomedicine. <b>2004,</b> 17, 92-9		
2246	Direct estimation of the fiber orientation density function from diffusion-weighted MRI data using spherical deconvolution. <b>2004,</b> 23, 1176-85		1143
2245	Advances in functional and structural MR image analysis and implementation as FSL. <b>2004,</b> 23 Suppl 1, S208-19		8876
2244	An update on neuroimaging of multiple sclerosis. <b>2004,</b> 17, 453-8		10
2243	Estimating intensity variance due to noise in registered images. <b>2005,</b>		1
2242	Investigating the functional role of callosal connections with dynamic causal models. <b>2005,</b> 1064, 16-36		43
2241	White matter tractography by means of TurboProp diffusion tensor imaging. <b>2005,</b> 1064, 78-87		12
2240	Multiple-fiber reconstruction algorithms for diffusion MRI. <b>2005,</b> 1064, 113-33		185
2239	Mathematical framework for simulating diffusion tensor MR neural fiber bundles. <i>Magnetic Resonance in Medicine</i> , <b>2005,</b> 53, 944-53	4.4	72
2238	PASTA: pointwise assessment of streamline tractography attributes. <i>Magnetic Resonance in Medicine</i> , <b>2005,</b> 53, 1462-7	4.4	88
2237	Self-navigated multishot echo-planar pulse sequence for high-resolution diffusion-weighted imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005,</b> 53, 1474-8	4.4	32

2236	Inference of multiple fiber orientations in high angular resolution diffusion imaging. <i>Magnetic Resonance in Medicine</i> , <b>2005</b> , 54, 1480-9	4.4	117
2235	Fiber tracking in q-ball fields using regularized particle trajectories. <b>2005</b> , 19, 52-63		68
2234	Functional-anatomical validation and individual variation of diffusion tractography-based segmentation of the human thalamus. <b>2005</b> , 15, 31-9		459
2233	Probabilistic anatomical connectivity derived from the microscopic persistent angular structure of cerebral tissue. <b>2005</b> , 360, 893-902		279
2232	Relating connectional architecture to grey matter function using diffusion imaging. <b>2005</b> , 360, 903-11		97
2231	Connectivity of the human periventricular-periaqueductal gray region. <b>2005</b> , 103, 1030-4		49
2230	Functional organization of human occipital-callosal fiber tracts. <b>2005</b> , 102, 7350-5		153
2229	A comparative study and analysis on techniques for diffusion-weighted magnetic resonance imaging. <b>2005</b> , 2005, 3024-6		
2228	Quantitative investigation of connections of the prefrontal cortex in the human and macaque using probabilistic diffusion tractography. <b>2005</b> , 25, 8854-66		340
2227	Bootstrap white matter tractography (BOOT-TRAC). <b>2005</b> , 24, 524-32		164
2226	A method for obtaining tract-specific diffusion tensor MRI measurements in the presence of disease: application to patients with clinically isolated syndromes suggestive of multiple sclerosis. <b>2005</b> , 26, 258-65		168
2225	Estimating intensity variance due to noise in registered images: applications to diffusion tensor MRI. <b>2005</b> , 26, 673-84		40
2224	Flow-based fiber tracking with diffusion tensor and q-ball data: validation and comparison to principal diffusion direction techniques. <b>2005</b> , 27, 725-36		135
2223	Maximum entropy spherical deconvolution for diffusion MRI. <b>2005</b> , 19, 76-87		77
2222	Registration of Cortical Connectivity Matrices.		3
2221	Application of Brodmann's area templates for ROI selection in white matter tractography studies. <b>2006</b> , 29, 868-78		67
2220	Reliable identification of the auditory thalamus using multi-modal structural analyses. <b>2006</b> , 30, 1112-20		82
2219	Improved fiber tractography with Bayesian tensor regularization. <b>2006</b> , 31, 1061-74		22

2218	Tract-based spatial statistics: voxelwise analysis of multi-subject diffusion data. <b>2006</b> , 31, 1487-505	4763
2217	Fibertract segmentation in position orientation space from high angular resolution diffusion MRI. <b>2006</b> , 32, 665-75	35
2216	Hemispheric asymmetries in language-related pathways: a combined functional MRI and tractography study. <b>2006</b> , 32, 388-99	333
2215	Comparison of bootstrap approaches for estimation of uncertainties of DTI parameters. <b>2006</b> , 33, 531-41	89
2214	Improved segmentation reproducibility in group tractography using a quantitative tract similarity measure. <b>2006</b> , 33, 482-92	22
2213	Between session reproducibility and between subject variability of diffusion MR and tractography measures. <b>2006</b> , 33, 867-77	219
2212	A Bayesian approach for stochastic white matter tractography. <b>2006</b> , 25, 965-78	180
2211	Determining anatomical connectivities between cortical and brainstem pain processing regions in humans: a diffusion tensor imaging study in healthy controls. <b>2006</b> , 123, 169-78	153
2210	Functional anatomy of interhemispheric cortical connections in the human brain. <b>2006</b> , 209, 311-20	169
2209	The primate cortico-cerebellar system: anatomy and function. <b>2006</b> , 7, 511-22	721
2208	3D curve inference for diffusion MRI regularization and fibre tractography. <b>2006</b> , 10, 799-813	47
2207	Understanding diffusion MR imaging techniques: from scalar diffusion-weighted imaging to diffusion tensor imaging and beyond. <b>2006</b> , 26 Suppl 1, S205-23	506
2206	Cortical projections to the human red nucleus: a diffusion tensor tractography study with a 1.5-T MRI machine. <b>2006</b> , 48, 755-62	43
2205	Improved differentiation of tactile activations in human secondary somatosensory cortex and thalamus using cardiac-triggered fMRI. <b>2006</b> , 174, 297-303	15
2204	Introduction to diffusion tensor imaging mathematics: Part I. Tensors, rotations, and eigenvectors. <b>2006</b> , 28A, 101-122	81
2203	Modeling water diffusion anisotropy within fixed newborn primate brain using Bayesian probability theory. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 55, 187-97	4-4 45
2202	Bayesian inference of hemodynamic changes in functional arterial spin labeling data. <i>Magnetic Resonance in Medicine</i> , <b>2006</b> , 56, 891-906	4-4 34
2201	Diagnostic functional MRI: illustrated clinical applications and decision-making. <b>2006</b> , 23, 921-32	53

2200	Sampling DTI fibers in the human brain based on DWI forward modeling. <b>2006</b> , 2006, 4885-8	3
2199	Probabilistic diffusion tractography: a potential tool to assess the rate of disease progression in amyotrophic lateral sclerosis. <b>2006</b> , 129, 1859-71	161
2198	Unconscious vision: new insights into the neuronal correlate of blindsight using diffusion tractography. <b>2006</b> , 129, 1822-32	180
2197	Corticospinal tract localization: integration of diffusion-tensor tractography at 3-T MR imaging with intraoperative white matter stimulation mapping--preliminary results. <b>2006</b> , 240, 849-57	92
2196	Diffusion-tensor fiber tractography: intraindividual comparison of 3.0-T and 1.5-T MR imaging. <b>2006</b> , 238, 668-78	69
2195	Connection patterns distinguish 3 regions of human parietal cortex. <b>2006</b> , 16, 1418-30	318
2194	Tract-Tracing in Developing Systems and in Postmortem Human Material Using Carbocyanine Dyes. <b>2006</b> , 366-393	9
2193	Connectivity-Based Parcellation of Broca's Area. <b>2007</b> , 17, 816-25	419
2192	Estimation of white matter connectivity based on a three-dimensional directional diffusion function in diffusion tensor MRI. <b>2006</b> , 33, 4643-52	3
2191	Control Theory and Fast Marching Techniques for Brain Connectivity Mapping.	16
2190	Integration of fMRI and probabilistic tractography for cerebral network analysis.	
2189	An information theoretic approach characterizing diffusion anisotropy in diffusion-weighted magnetic resonance images. <b>2006</b> , 2006, 2260-3	5
2188	The evolution of prefrontal inputs to the cortico-pontine system: diffusion imaging evidence from Macaque monkeys and humans. <b>2006</b> , 16, 811-8	236
2187	Non-invasive mapping of corticofugal fibres from multiple motor areas--relevance to stroke recovery. <b>2006</b> , 129, 1844-58	200
2186	Exploiting peak anisotropy for tracking through complex structures. <b>2007</b> ,	23
2185	Computing the Probability of Local Brain Connectivity using Diffusion Tensor Imaging. <b>2007</b> ,	
2184	Diffusion tensor imaging in preclinical and presymptomatic carriers of familial Alzheimer's disease mutations. <b>2007</b> , 130, 1767-76	195
2183	Connectivity of the human pedunclopontine nucleus region and diffusion tensor imaging in surgical targeting. <b>2007</b> , 107, 814-20	96

2182	Statistical Analysis of Diffusion Tensors in Diffusion-Weighted Magnetic Resonance Imaging Data. <b>2007</b> , 102, 1085-1102	49
2181	Probabilistic inference on Q-ball imaging data. <b>2007</b> , 26, 1515-24	11
2180	A probabilistic model-based approach to consistent white matter tract segmentation. <b>2007</b> , 26, 1555-61	71
2179	Anatomical traces of vocabulary acquisition in the adolescent brain. <b>2007</b> , 27, 1184-9	122
2178	TWO-TENSOR FIBER TRACTOGRAPHY. <b>2007</b> ,	10
2177	Estimating number of fiber directions per voxel for ICA DTI tractography. <b>2007</b> ,	
2176	Diffusion tensor sharpening improves white matter tractography. <b>2007</b> ,	9
2175	Breakdown of functional connectivity in frontoparietal networks underlies behavioral deficits in spatial neglect. <b>2007</b> , 53, 905-18	729
2174	Connectivity of an effective hypothalamic surgical target for cluster headache. <b>2007</b> , 14, 955-60	62
2173	Connectivity-based parcellation of human cortex using diffusion MRI: Establishing reproducibility, validity and observer independence in BA 44/45 and SMA/pre-SMA. <b>2007</b> , 34, 204-11	161
2172	Probabilistic diffusion tractography with multiple fibre orientations: What can we gain?. <b>2007</b> , 34, 144-55	2514
2171	Multimodal fMRI tractography in normal subjects and in clinically recovered traumatic brain injury patients. <b>2007</b> , 34, 1331-41	25
2170	Abnormal brain connectivity in first-episode psychosis: a diffusion MRI tractography study of the corpus callosum. <b>2007</b> , 35, 458-66	101
2169	Fiber density asymmetry of the arcuate fasciculus in relation to functional hemispheric language lateralization in both right- and left-handed healthy subjects: a combined fMRI and DTI study. <b>2007</b> , 35, 1064-76	238
2168	Diffusion tensor imaging with tract-based spatial statistics reveals local white matter abnormalities in preterm infants. <b>2007</b> , 35, 1021-7	262
2167	Robust determination of the fibre orientation distribution in diffusion MRI: non-negativity constrained super-resolved spherical deconvolution. <b>2007</b> , 35, 1459-72	1354
2166	Discordant white matter N-acetylaspartate and diffusion MRI measures suggest that chronic metabolic dysfunction contributes to axonal pathology in multiple sclerosis. <b>2007</b> , 36, 19-27	88
2165	Adaptive decision making and value in the anterior cingulate cortex. <b>2007</b> , 36 Suppl 2, T142-54	119

2164	Integrity of white matter in the corpus callosum correlates with bimanual co-ordination skills. <b>2007</b> , 36 Suppl 2, T16-21	187
2163	A novel tensor distribution model for the diffusion-weighted MR signal. <b>2007</b> , 37, 164-76	166
2162	A Bayesian framework for global tractography. <b>2007</b> , 37, 116-29	215
2161	Parametric spherical deconvolution: inferring anatomical connectivity using diffusion MR imaging. <b>2007</b> , 37, 474-88	146
2160	Topography of cortical and subcortical connections of the human pedunclopontine and subthalamic nuclei. <b>2007</b> , 37, 694-705	164
2159	Validation of in vitro probabilistic tractography. <b>2007</b> , 37, 1267-77	194
2158	Interactive visualization of volumetric white matter connectivity in DT-MRI using a parallel-hardware Hamilton-Jacobi solver. <b>2007</b> , 13, 1480-7	46
2157	Stochastic DT-MRI connectivity mapping on the GPU. <b>2007</b> , 13, 1504-11	26
2156	Topological visualization of brain diffusion MRI data. <b>2007</b> , 13, 1496-503	38
2155	Diffusion-weighted imaging tractography-based parcellation of the human lateral premotor cortex identifies dorsal and ventral subregions with anatomical and functional specializations. <b>2007</b> , 27, 10259-69	275
2154	Preoperative DTI and probabilistic tractography in an amputee with deep brain stimulation for lower limb stump pain. <b>2007</b> , 21, 485-90	22
2153	Automatic tractography segmentation using a high-dimensional white matter atlas. <b>2007</b> , 26, 1562-75	265
2152	Pattern Recognition in Bioinformatics. <b>2007</b> ,	1
2151	Extracting Brain Connectivity from Diffusion MRI [Life Sciences]. <b>2007</b> , 24, 124-152	7
2150	Triangulating a cognitive control network using diffusion-weighted magnetic resonance imaging (MRI) and functional MRI. <b>2007</b> , 27, 3743-52	738
2149	A volumetric approach to quantifying region-to-region white matter connectivity in diffusion tensor MRI. <b>2007</b> , 20, 346-58	32
2148	Intrauterine hormonal environment and risk of developing anorexia nervosa. <b>2007</b> , 64, 1402-7	19
2147	Statistical group comparison of diffusion tensors via multivariate hypothesis testing. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 57, 1065-74	4.4 42

2146	Regularized, fast, and robust analytical Q-ball imaging. <i>Magnetic Resonance in Medicine</i> , <b>2007</b> , 58, 497-510.	4	588
2145	Two-dimensional population map of cortical connections in the human internal capsule. <b>2007</b> , 25, 48-54		50
2144	3D space-varying coefficient models with application to diffusion tensor imaging. <b>2007</b> , 51, 6212-6228		12
2143	Increased structural connectivity in grapheme-color synesthesia. <b>2007</b> , 10, 792-7		299
2142	Acquisition and voxelwise analysis of multi-subject diffusion data with tract-based spatial statistics. <b>2007</b> , 2, 499-503		472
2141	Wechsler Memory Scale Revised Edition: neural correlates of the visual paired associates subtest adapted for fMRI. <b>2007</b> , 1177, 66-78		20
2140	White matter pathways in reading. <b>2007</b> , 17, 258-70		142
2139	Individual differences in white-matter microstructure reflect variation in functional connectivity during choice. <b>2007</b> , 17, 1426-31		115
2138	Mechanisms of hemispheric specialization: insights from analyses of connectivity. <b>2007</b> , 45, 209-28		71
2137	A model-based deconvolution approach to solve fiber crossing in diffusion-weighted MR imaging. <b>2007</b> , 54, 462-72		131
2136	Cortical projection to the human red nucleus: complementary results with probabilistic tractography at 3 T. <b>2007</b> , 49, 777-84		66
2135	Anatomical parcellation of the brainstem and cerebellar white matter: a preliminary probabilistic tractography study at 3 T. <b>2007</b> , 49, 849-63		113
2134	Application of a probabilistic double-fibre structure model to diffusion-weighted MR images of the human brain. <b>2008</b> , 26, 236-45		16
2133	Multimodal Magnetic Resonance Imaging for Brain Disorders: Advances and Perspectives. <b>2008</b> , 2, 249-257		6
2132	Hemispheric asymmetry of the arcuate fasciculus: a preliminary diffusion tensor tractography study in patients with unilateral language dominance defined by Wada test. <b>2008</b> , 255, 1703-11		58
2131	Sensitivity of diffusion weighted steady state free precession to anisotropic diffusion. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 405-13	4-4	35
2130	Inferring multiple maxima in intravoxel white matter fiber distribution. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 616-30	4-4	7
2129	Noninvasive mapping of human trigeminal brainstem pathways. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 1037-46	4-4	34



2128	Gibbs tracking: a novel approach for the reconstruction of neuronal pathways. <i>Magnetic Resonance in Medicine</i> , <b>2008</b> , 60, 953-63	4.4	120
2127	Using the wild bootstrap to quantify uncertainty in diffusion tensor imaging. <b>2008</b> , 29, 346-62		85
2126	Neuroscientific approaches and applications within anthropology. <b>2008</b> , Suppl 47, 2-32		72
2125	Evidence that MR diffusion tensor imaging (tractography) predicts the natural history of regional progression in patients irradiated conformally for primary brain tumors. <b>2008</b> , 71, 1553-62		34
2124	On the Reliability of Quantitative Volumetric and Structural Neuroimaging. <b>2008</b> , 12, 2-10		3
2123	Combining structural and functional neuroimaging data for studying brain connectivity: a review. <b>2008</b> , 45, 173-87		126
2122	Language lateralization in temporal lobe epilepsy using functional MRI and probabilistic tractography. <b>2008</b> , 49, 1367-76		36
2121	The elliptical cone of uncertainty and its normalized measures in diffusion tensor imaging. <b>2008</b> , 27, 834-46		23
2120	Computation of diffusion function measures in q-space using magnetic resonance hybrid diffusion imaging. <b>2008</b> , 27, 858-65		62
2119	Diffusion-based tractography in neurological disorders: concepts, applications, and future developments. <b>2008</b> , 7, 715-27		300
2118	The role of the thalamus in amnesia: a tractography, high-resolution MRI and neuropsychological study. <b>2008</b> , 46, 2745-58		55
2117	White matter tractography in bipolar disorder and schizophrenia. <b>2008</b> , 64, 1088-92		212
2116	Pre-operative DTI and probabilistic tractography in four patients with deep brain stimulation for chronic pain. <b>2008</b> , 15, 801-5		29
2115	Directional colour encoding of the human thalamus by diffusion tensor imaging. <b>2008</b> , 434, 322-7		30
2114	Use of diffusion-tensor imaging in traumatic spinal cord injury to identify concomitant traumatic brain injury. <b>2008</b> , 89, S85-91		20
2113	The brain in chronic CRPS pain: abnormal gray-white matter interactions in emotional and autonomic regions. <b>2008</b> , 60, 570-81		372
2112	Neuroimaging techniques offer new perspectives on callosal transfer and interhemispheric communication. <b>2008</b> , 44, 1023-9		109
2111	Diffusion spectrum magnetic resonance imaging (DSI) tractography of crossing fibers. <b>2008</b> , 41, 1267-77		730

2110	In vivo DTI of the healthy and injured cat spinal cord at high spatial and angular resolution. <b>2008</b> , 40, 685-697	44
2109	High-resolution diffusion tensor imaging and tractography of the human optic chiasm at 9.4 T. <b>2008</b> , 39, 157-68	77
2108	White matter tracts in first-episode psychosis: a DTI tractography study of the uncinate fasciculus. <b>2008</b> , 39, 949-55	103
2107	Amygdala tractography predicts functional connectivity and learning during feedback-guided decision-making. <b>2008</b> , 39, 1396-407	95
2106	Automatic segmentation of brain MRIs of 2-year-olds into 83 regions of interest. <b>2008</b> , 40, 672-684	239
2105	Brain white matter tracts degeneration in Friedreich ataxia. An in vivo MRI study using tract-based spatial statistics and voxel-based morphometry. <b>2008</b> , 40, 19-25	84
2104	Voxel-based diffusion tensor imaging in patients with mesial temporal lobe epilepsy and hippocampal sclerosis. <b>2008</b> , 40, 728-737	231
2103	Diffusion tensor imaging of normal white matter maturation from late childhood to young adulthood: voxel-wise evaluation of mean diffusivity, fractional anisotropy, radial and axial diffusivities, and correlation with reading development. <b>2008</b> , 41, 223-32	204
2102	A Bayesian framework to identify principal intravoxel diffusion profiles based on diffusion-weighted MR imaging. <b>2008</b> , 42, 750-70	15
2101	Maximum a posteriori estimation of diffusion tensor parameters using a Rician noise model: why, how and but. <b>2008</b> , 42, 1340-56	65
2100	A tractography comparison between turboprop and spin-echo echo-planar diffusion tensor imaging. <b>2008</b> , 42, 1451-62	16
2099	Probabilistic fibre tracking: differentiation of connections from chance events. <b>2008</b> , 42, 1329-39	80
2098	Connecting and merging fibres: pathway extraction by combining probability maps. <b>2008</b> , 43, 81-9	60
2097	Brain white matter damage in SCA1 and SCA2. An in vivo study using voxel-based morphometry, histogram analysis of mean diffusivity and tract-based spatial statistics. <b>2008</b> , 43, 10-9	73
2096	Tract shape modelling provides evidence of topological change in corpus callosum genu during normal ageing. <b>2008</b> , 43, 20-8	18
2095	The multiple synaesthete E.S.: neuroanatomical basis of interval-taste and tone-colour synaesthesia. <b>2008</b> , 43, 192-203	72
2094	Diffusion tensor imaging in schizophrenia. <b>2008</b> , 23, 255-73	112
2093	Multi-fiber reconstruction from DW-MRI using a continuous mixture of von Mises-Fisher distributions. <b>2008</b> ,	10

2092	Imaging white matter diffusion changes with development and recovery from brain injury. <b>2008</b> , 11, 174-86	16
2091	DT-MRI fiber tracking: a shortest paths approach. <b>2008</b> , 27, 1458-71	59
2090	A note on the validity of statistical bootstrapping for estimating the uncertainty of tensor parameters in diffusion tensor images. <b>2008</b> , 27, 1506-14	9
2089	In-vivo brain anatomical connectivity using diffusion magnetic resonance imaging and fuzzy connectedness. <b>2008</b> ,	1
2088	Atlas-guided probabilistic diffusion-tensor fiber tractography. <b>2008</b> ,	4
2087	White matter connections reflect changes in voluntary-guided saccades in pre-symptomatic Huntington's disease. <b>2008</b> , 131, 196-204	143
2086	Elevated left and reduced right orbitomedial prefrontal fractional anisotropy in adults with bipolar disorder revealed by tract-based spatial statistics. <b>2008</b> , 65, 1041-52	268
2085	Estimation of uncertainty in constrained spherical deconvolution fiber orientations. <b>2008</b> ,	5
2084	Anatomical connectivity of the subgenual cingulate region targeted with deep brain stimulation for treatment-resistant depression. <b>2008</b> , 18, 1374-83	450
2083	Callosal contributions to simultaneous bimanual finger movements. <b>2008</b> , 28, 3227-33	112
2082	Diffusion tensor MR imaging and fiber tractography: theoretic underpinnings. <b>2008</b> , 29, 632-41	339
2081	A whole-brain analysis in de novo Parkinson disease. <b>2008</b> , 29, 674-80	57
2080	Identifying the human optic radiation using diffusion imaging and fiber tractography. <b>2008</b> , 8, 12.1-11	104
2079	Regularized super-resolution for diffusion MRI. <b>2008</b> ,	8
2078	Quantitative analysis of diffusion tensor images across subjects using probabilistic tractography. <b>2008</b> ,	1
2077	A global approach to cardiac tractography. <b>2008</b> ,	5
2076	Diffusion tensor imaging in psychiatric disorders. <b>2008</b> , 19, 97-109	137
2075	Imaging structural and functional connectivity: towards a unified definition of human brain organization?. <b>2008</b> , 21, 393-403	109

2074	Estimating the confidence level of white matter connections obtained with MRI tractography. <b>2008</b> , 3, e4006	25
2073	ConTrack: finding the most likely pathways between brain regions using diffusion tractography. <b>2008</b> , 8, 15.1-16	70
2072	Connectivity-based parcellation of the cortical mantle using q-ball diffusion imaging. <b>2008</b> , 2008, 368406	26
2071	Accurate anisotropic fast marching for diffusion-based geodesic tractography. <b>2008</b> , 2008, 320195	79
2070	The connectivity of the human pulvinar: a diffusion tensor imaging tractography study. <b>2008</b> , 2008, 789539	69
2069	Exploring the anatomical basis of effective connectivity models with DTI-based fiber tractography. <b>2008</b> , 2008, 423192	10
2068	The architecture of the golfer's brain. <b>2009</b> , 4, e4785	131
2067	Frontal white matter integrity as an endophenotype for schizophrenia: diffusion tensor imaging in monozygotic twins and patients' nonpsychotic relatives. <b>2009</b> , 3, 35	66
2066	Neuroanatomical correlates of developmental dyscalculia: combined evidence from morphometry and tractography. <b>2009</b> , 3, 51	128
2065	Visualization and Processing of Tensor Fields. <b>2009</b> ,	11
2064	. <b>2009</b> ,	1
2063	Age- and gender-related differences in the cortical anatomical network. <b>2009</b> , 29, 15684-93	500
2062	Robust graph-based tracking through crossing fibre configurations. <b>2009</b> ,	
2061	Frontal-limbic white matter pathway associations with the serotonin transporter gene promoter region (5-HTTLPR) polymorphism. <b>2009</b> , 29, 6229-33	115
2060	Cerebellothalamocortical connectivity regulates penetrance in dystonia. <b>2009</b> , 29, 9740-7	230
2059	Fornix microstructure correlates with recollection but not familiarity memory. <b>2009</b> , 29, 14987-92	90
2058	Altered fronto-striato-thalamic connectivity in children with Tourette syndrome assessed with diffusion tensor MRI and probabilistic fiber tracking. <b>2009</b> , 24, 669-78	65
2057	Diffusion abnormalities in the primary sensorimotor pathways in writer's cramp. <b>2009</b> , 66, 502-8	72

2056	Monte Carlo-based diffusion tensor tractography with a geometrically corrected voxel-centre connecting method. <b>2009</b> , 54, 1009-33	10
2055	Integrated imaging approach with MEG and DTI to detect mild traumatic brain injury in military and civilian patients. <b>2009</b> , 26, 1213-26	165
2054	Evaluation of bayesian tensor estimation using tensor coherence. <b>2009</b> , 54, 3785-802	2
2053	Structural changes in the somatosensory system correlate with tic severity in Gilles de la Tourette syndrome. <b>2009</b> , 132, 765-77	123
2052	Parsing pain perception between nociceptive representation and magnitude estimation. <b>2009</b> , 101, 875-87	181
2051	Magnetic resonance imaging techniques in white matter disease: potentials and limitations. <b>2009</b> , 20, 301-12	7
2050	Functional relevance of interindividual differences in temporal lobe callosal pathways: a DTI tractography study. <b>2009</b> , 19, 1322-9	89
2049	Defining Meyer's loop-temporal lobe resections, visual field deficits and diffusion tensor tractography. <b>2009</b> , 132, 1656-68	128
2048	Preoperative sensorimotor mapping in brain tumor patients using spontaneous fluctuations in neuronal activity imaged with functional magnetic resonance imaging: initial experience. <b>2009</b> , 65, 226-36	116
2047	Brain connectivity in non-reading impaired children and children diagnosed with developmental dyslexia. <b>2009</b> , 47, 1972-7	117
2046	Tract-Based Spatial Statistics (TBSS) of diffusion tensor imaging data in alcohol dependence: abnormalities of the motivational neurocircuitry. <b>2009</b> , 173, 22-30	96
2045	Altered white matter microstructure in adolescent substance users. <b>2009</b> , 173, 228-37	139
2044	Diffusion abnormalities in adolescents and young adults with a history of heavy cannabis use. <b>2009</b> , 43, 189-204	127
2043	A diffusion tensor imaging tractography algorithm based on Navier-Stokes fluid mechanics. <b>2009</b> , 28, 348-60	21
2042	Deterministic and probabilistic tractography based on complex fibre orientation distributions. <b>2009</b> , 28, 269-86	493
2041	Using the model-based residual bootstrap to quantify uncertainty in fiber orientations from Q-ball analysis. <b>2009</b> , 28, 535-50	37
2040	A DTI-derived measure of cortico-cortical connectivity. <b>2009</b> , 28, 1023-36	112
2039	K-space and image-space combination for motion-induced phase-error correction in self-navigated multicoil multishot DWI. <b>2009</b> , 28, 1770-80	15

2038	The relations between white matter and declarative memory in older children and adolescents. <b>2009</b> , 1294, 80-90		84
2037	Frontoparietal activity and its structural connectivity in binocular rivalry. <b>2009</b> , 1305, 96-107		34
2036	Automated white-matter tractography using a probabilistic diffusion tensor atlas: Application to temporal lobe epilepsy. <b>2009</b> , 30, 1535-47		144
2035	Lateralization of the arcuate fasciculus from childhood to adulthood and its relation to cognitive abilities in children. <b>2009</b> , 30, 3563-73		202
2034	Metaanalytic connectivity modeling: delineating the functional connectivity of the human amygdala. <b>2010</b> , 31, 173-84		236
2033	Dissecting structure-function interactions in acute optic neuritis to investigate neuroplasticity. <b>2010</b> , 31, 276-86		24
2032	Structural neuroplasticity in the sensorimotor network of professional female ballet dancers. <b>2010</b> , 31, 1196-206		169
2031	Dynamic corticospinal white matter connectivity changes during stroke recovery: a diffusion tensor probabilistic tractography study. <b>2009</b> , 29, 529-36		35
2030	A Bayesian hierarchical model for the analysis of a longitudinal dynamic contrast-enhanced MRI oncology study. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 61, 163-74	4-4	27
2029	Free water elimination and mapping from diffusion MRI. <i>Magnetic Resonance in Medicine</i> , <b>2009</b> , 62, 717-30	4-4	518
2028	Imaging the relationship between structure, function and behaviour in the human brain. <b>2009</b> , 213, 499-500		7
2027	A practical approach to in vivo high-resolution diffusion tensor imaging of rhesus monkeys on a 3-T human scanner. <b>2009</b> , 27, 335-46		12
2026	Cerebral white matter integrity and cognitive aging: contributions from diffusion tensor imaging. <b>2009</b> , 19, 415-35		306
2025	An anatomical signature for literacy. <b>2009</b> , 461, 983-6		311
2024	The neuroanatomy of grapheme-color synesthesia. <b>2009</b> , 29, 1287-93		85
2023	Probabilistic white matter fiber tracking using particle filtering and von Mises-Fisher sampling. <b>2009</b> , 13, 5-18		46
2022	Pathways to language: fiber tracts in the human brain. <b>2009</b> , 13, 175-81		373
2021	Cortical and subcortical connections within the pedunculo-pontine nucleus of the primate <i>Macaca mulatta</i> determined using probabilistic diffusion tractography. <b>2009</b> , 16, 413-20		24

2020	Identification of the medial lemniscus in the human brain: combined study of functional MRI and diffusion tensor tractography. <b>2009</b> , 459, 19-24	41
2019	Preliminary evidence for white matter tract abnormalities in young adults exposed to parental verbal abuse. <b>2009</b> , 65, 227-34	271
2018	A tractography analysis of two deep brain stimulation white matter targets for depression. <b>2009</b> , 65, 276-82	172
2017	Adaptive kernels for multi-fiber reconstruction. <b>2009</b> , 21, 338-49	14
2016	Mapping anatomical connectivity patterns of human cerebral cortex using in vivo diffusion tensor imaging tractography. <b>2009</b> , 19, 524-36	814
2015	Neuronal networks in Alzheimer's disease. <b>2009</b> , 15, 333-50	166
2014	fMRI Techniques and Protocols. <b>2009</b> ,	11
2013	Multiple Fibers. <b>2009</b> , 55-72	21
2012	MR Diffusion Tractography. <b>2009</b> , 333-351	20
2011	Tractography for Surgical Targeting. <b>2009</b> , 415-444	2
2010	3D stochastic completion fields for fiber tractography. <b>2009</b> ,	4
2009	Resolving crossings in the corticospinal tract by two-tensor streamline tractography: Method and clinical assessment using fMRI. <b>2009</b> , 47 Suppl 2, T98-106	90
2008	Structural connectivity influences brain activation during PVSAT in Multiple Sclerosis. <b>2009</b> , 44, 9-15	56
2007	A random effects modelling approach to the crossing-fibre problem in tractography. <b>2009</b> , 44, 753-68	18
2006	Near-tubular fiber bundle segmentation for diffusion weighted imaging: segmentation through frame reorientation. <b>2009</b> , 45, S123-32	6
2005	Reproducibility of tract segmentation between sessions using an unsupervised modelling-based approach. <b>2009</b> , 45, 377-85	33
2004	High resolution diffusion-weighted imaging in fixed human brain using diffusion-weighted steady state free precession. <b>2009</b> , 46, 775-85	142
2003	White matter integrity in the vicinity of Broca's area predicts grammar learning success. <b>2009</b> , 47, 1974-81	101

2002	Combinatorial fiber-tracking of the human brain. <b>2009</b> , 48, 532-40	19
2001	Tractography-based priors for dynamic causal models. <b>2009</b> , 47, 1628-38	115
2000	Group analyses of connectivity-based cortical parcellation using repeated k-means clustering. <b>2009</b> , 47, 1666-77	92
1999	Bayesian analysis of neuroimaging data in FSL. <b>2009</b> , 45, S173-86	1553
1998	Brain Connectivity Mapping Using Riemannian Geometry, Control Theory, and PDEs. <b>2009</b> , 2, 285-322	20
1997	Using diffusion imaging to study human connectonal anatomy. <b>2009</b> , 32, 75-94	248
1996	Diffusion tensor imaging of the posterior cingulate is a useful biomarker of mild cognitive impairment. <b>2009</b> , 17, 602-13	58
1995	Brain imaging of multiple sclerosis: the next 10 years. <b>2009</b> , 19, 101-12	7
1994	White matter differences predict cognitive vulnerability to sleep deprivation. <b>2009</b> , 32, 1100-3	42
1993	Visualizing white matter structure of the brain using Dijkstra's algorithm. <b>2009</b> ,	2
1992	Chronic pedunculopontine nucleus stimulation restores functional connectivity. <b>2010</b> , 21, 1065-8	23
1991	Connectivity of the pedunculopontine nucleus in parkinsonian freezing of gait. <b>2010</b> , 21, 914-6	82
1990	[Multidimensional neuroimaging approach for studying brain network]. <b>2010</b> , 50, 901-2	1
1989	Microstructural diffusion changes are independent of macrostructural volume loss in moderate to severe Alzheimer's disease. <b>2010</b> , 19, 963-76	71
1988	Graph theoretical modeling of brain connectivity. <b>2010</b> , 23, 341-50	473
1987	[Innovative MRI techniques in Parkinson's disease]. <b>2010</b> , 81, 1180-8	2
1986	White-matter abnormalities in brain during early abstinence from methamphetamine abuse. <b>2010</b> , 209, 13-24	71
1985	Diffusion tensor imaging (DTI) and tractography of the brachial plexus: feasibility and initial experience in neoplastic conditions. <b>2010</b> , 52, 237-45	71



1984	Voxel-based analysis of the diffusion tensor. <b>2010</b> , 52, 699-710		53
1983	Diffusion simulation-based fiber tracking using time-of-arrival maps: a comparison with standard methods. <b>2010</b> , 23, 391-8		2
1982	Neuroimaging of the functional and structural networks underlying visuospatial vs. linguistic reasoning in high-functioning autism. <b>2010</b> , 48, 86-95		138
1981	Combination of diffusion tensor and functional magnetic resonance imaging during recovery from the vegetative state. <b>2010</b> , 10, 77		45
1980	Saturn: a software application of tensor utilities for research in neuroimaging. <b>2010</b> , 97, 264-79		5
1979	Language laterality in autism spectrum disorder and typical controls: a functional, volumetric, and diffusion tensor MRI study. <b>2010</b> , 112, 113-20		114
1978	Fronto-cerebellar circuits and eye movement control: a diffusion imaging tractography study of human cortico-pontine projections. <b>2010</b> , 1307, 63-71		39
1977	Steady-state diffusion-weighted imaging: theory, acquisition and analysis. <b>2010</b> , 23, 781-93		35
1976	Mapping brain anatomical connectivity using white matter tractography. <b>2010</b> , 23, 821-35		86
1975	Neuroplasticity predicts outcome of optic neuritis independent of tissue damage. <b>2010</b> , 67, 99-113		64
1974	Mapping of iron deposition in conjunction with assessment of nerve fiber tract integrity in amyotrophic lateral sclerosis. <b>2010</b> , 31, 1339-45		32
1973	Tensor kernels for simultaneous fiber model estimation and tractography. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 138-48	4.4	7
1972	Three-dimensional diffusion tensor microimaging for anatomical characterization of the mouse brain. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 249-61	4.4	66
1971	A graph-based approach for automatic cardiac tractography. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1215-29	4.4	15
1970	Independent component analysis-based multifiber streamline tractography of the human brain. <i>Magnetic Resonance in Medicine</i> , <b>2010</b> , 64, 1676-84	4.4	14
1969	A filtered approach to neural tractography using the Watson directional function. <b>2010</b> , 14, 58-69		38
1968	Spherical wavelet transform for ODF sharpening. <b>2010</b> , 14, 332-42		14
1967	MR connectomics: Principles and challenges. <b>2010</b> , 194, 34-45		218

1966	Fuzzy anatomical connectedness of the brain using single and multiple fibre orientations estimated from diffusion MRI. <b>2010</b> , 34, 504-13	4
1965	Neuroplasticity associated with tactile language communication in a deaf-blind subject. <b>2010</b> , 3, 60	10
1964	Direct visualization of the perforant pathway in the human brain with ex vivo diffusion tensor imaging. <b>2010</b> , 4, 42	62
1963	Influences of Neural Pathway Integrity on Children's Response to Reading Instruction. <b>2010</b> , 4, 150	13
1962	Cerebellum abnormalities in idiopathic generalized epilepsy with generalized tonic-clonic seizures revealed by diffusion tensor imaging. <b>2010</b> , 5, e15219	39
1961	A diffusion tensor imaging study on the auditory system and tinnitus. <b>2010</b> , 4, 16-25	76
1960	Greater default-mode network abnormalities compared to high order visual processing systems in amnesic mild cognitive impairment: an integrated multi-modal MRI study. <b>2010</b> , 22, 523-39	19
1959	Regional distribution and clinical correlates of white matter structural damage in Huntington disease: a tract-based spatial statistics study. <b>2010</b> , 31, 1675-81	78
1958	An introduction to model-independent diffusion magnetic resonance imaging. <b>2010</b> , 21, 339-54	18
1957	Ultrahigh-resolution microstructural diffusion tensor imaging reveals perforant path degradation in aged humans in vivo. <b>2010</b> , 107, 12687-91	176
1956	Inference of functional connectivity from structural brain connectivity. <b>2010</b> ,	7
1955	Theory and applications of diffusion MRI. <b>2010</b> ,	0
1954	Probabilistic white matter and fiber tract atlas construction. <b>2010</b> ,	
1953	Exact and analytic bayesian inference for orientation distribution functions. <b>2010</b> ,	1
1952	. <b>2010</b> ,	8
1951	Medical Imaging and Augmented Reality. <b>2010</b> ,	8
1950	Gesture discrimination in primary progressive aphasia: the intersection between gesture and language processing pathways. <b>2010</b> , 30, 6334-41	65
1949	Clinical impact of integrated physiologic brain tumor imaging. <b>2010</b> , 9, 359-80	18

1948	Combining tractography and cortical measures to test system-specific hypotheses in multiple sclerosis. <b>2010</b> , 16, 555-65	27
1947	Noninvasive functional and structural connectivity mapping of the human thalamocortical system. <b>2010</b> , 20, 1187-94	275
1946	The structural plasticity of white matter networks following anterior temporal lobe resection. <b>2010</b> , 133, 2348-64	97
1945	White matter abnormalities in methcathinone abusers with an extrapyramidal syndrome. <b>2010</b> , 133, 3676-84	36
1944	Anatomical and functional connectivity of cytoarchitectonic areas within the human parietal operculum. <b>2010</b> , 30, 6409-21	283
1943	Cortical projection topography of the human splenium: hemispheric asymmetry and individual differences. <b>2010</b> , 22, 1662-9	82
1942	Right orbitofrontal corticolimbic and left corticocortical white matter connectivity differentiate bipolar and unipolar depression. <b>2010</b> , 68, 560-7	129
1941	Genetics of microstructure of cerebral white matter using diffusion tensor imaging. <b>2010</b> , 53, 1109-16	134
1940	Normal variation in fronto-occipital circuitry and cerebellar structure with an autism-associated polymorphism of CNTNAP2. <b>2010</b> , 53, 1030-42	89
1939	Mesh-based spherical deconvolution: a flexible approach to reconstruction of non-negative fiber orientation distributions. <b>2010</b> , 51, 1071-81	18
1938	Topography of connections between human prefrontal cortex and mediodorsal thalamus studied with diffusion tractography. <b>2010</b> , 51, 555-64	144
1937	The effect and reproducibility of different clinical DTI gradient sets on small world brain connectivity measures. <b>2010</b> , 51, 1106-16	98
1936	Comparative mouse brain tractography of diffusion magnetic resonance imaging. <b>2010</b> , 51, 1027-36	59
1935	Identical, but not the same: intra-site and inter-site reproducibility of fractional anisotropy measures on two 3.0T scanners. <b>2010</b> , 51, 1384-94	189
1934	Reproducibility of thalamic segmentation based on probabilistic tractography. <b>2010</b> , 52, 69-85	62
1933	Structural connectivity of Broca's area and medial frontal cortex. <b>2010</b> , 52, 1230-7	97
1932	Orientationally invariant indices of axon diameter and density from diffusion MRI. <b>2010</b> , 52, 1374-89	527
1931	Topographic organization of V1 projections through the corpus callosum in humans. <b>2010</b> , 52, 1224-9	51

1930	Connectivity-based segmentation of the substantia nigra in human and its implications in Parkinson's disease. <b>2010</b> , 52, 1175-80	102
1929	Cognitive and motor loops of the human cerebro-cerebellar system. <b>2010</b> , 22, 2663-76	175
1928	Altered development of white matter in youth at high familial risk for bipolar disorder: a diffusion tensor imaging study. <b>2010</b> , 49, 1249-59, 1259.e1	37
1927	Gender differences in the relationship between white matter organization and adolescent substance use disorders. <b>2010</b> , 110, 55-61	32
1926	Optimization of in vivo high-resolution DTI of non-human primates on a 3T human scanner. <b>2010</b> , 50, 205-13	11
1925	Ventral periaqueductal grey stimulation alters heart rate variability in humans with chronic pain. <b>2010</b> , 223, 574-81	70
1924	Increasing top-down suppression from prefrontal cortex facilitates tactile working memory. <b>2010</b> , 49, 1091-8	39
1923	Identification of critical areas for motor function recovery in chronic stroke subjects using voxel-based lesion symptom mapping. <b>2010</b> , 49, 9-18	60
1922	A modified damped Richardson-Lucy algorithm to reduce isotropic background effects in spherical deconvolution. <b>2010</b> , 49, 1446-58	235
1921	Brain tractography using Q-ball imaging and graph theory: Improved connectivities through fibre crossings via a model-based approach. <b>2010</b> , 49, 2444-56	52
1920	Deconvolution in diffusion spectrum imaging. <b>2010</b> , 50, 136-49	29
1919	Whole-brain anatomical networks: does the choice of nodes matter?. <b>2010</b> , 50, 970-83	877
1918	Identifying population differences in whole-brain structural networks: a machine learning approach. <b>2010</b> , 50, 910-9	76
1917	Fast and accurate reconstruction of HARDI data using compressed sensing. <b>2010</b> , 13, 607-14	14
1916	Comparison of diffusion tensor imaging tractography of language tracts and intraoperative subcortical stimulations. <b>2010</b> , 112, 503-11	181
1915	A translational bridge between mouse and human models of learned safety. <b>2010</b> , 42, 115-22	40
1914	Fiber stippling: An illustrative rendering for probabilistic diffusion tractography. <b>2011</b> ,	8
1913	Evidence of left inferior frontal-premotor structural and functional connectivity deficits in adults who stutter. <b>2011</b> , 21, 2507-18	116

1912	Early pericalcarine atrophy in acute optic neuritis is associated with conversion to multiple sclerosis. <b>2011</b> , 82, 1017-21	17
1911	Functional connectivity between the left and right inferior frontal lobes in a small sample of children with and without reading difficulties. <b>2011</b> , 17, 425-39	28
1910	A comprehensive assessment of cerebellar damage in multiple sclerosis using diffusion tractography and volumetric analysis. <b>2011</b> , 17, 1079-87	55
1909	Co-activation patterns distinguish cortical modules, their connectivity and functional differentiation. <b>2011</b> , 57, 938-49	326
1908	Disrupted axonal fiber connectivity in schizophrenia. <b>2011</b> , 69, 80-9	363
1907	Diffusion MR imaging: basic principles. <b>2011</b> , 21, 1-25, vii	25
1906	Regional heterogeneity in limbic maturational changes: evidence from integrating cortical thickness, volumetric and diffusion tensor imaging measures. <b>2011</b> , 55, 868-79	49
1905	Connectivity constraints on cortical reorganization of neural circuits involved in object naming. <b>2011</b> , 55, 1306-13	48
1904	Quantitative evaluation of 10 tractography algorithms on a realistic diffusion MR phantom. <b>2011</b> , 56, 220-34	312
1903	Axon diameter mapping in the presence of orientation dispersion with diffusion MRI. <b>2011</b> , 56, 1301-15	192
1902	Connectivity-based segmentation of human amygdala nuclei using probabilistic tractography. <b>2011</b> , 56, 1353-61	89
1901	A critical re-examination of sexual dimorphism in the corpus callosum microstructure. <b>2011</b> , 56, 874-80	37
1900	Robust subdivision of the thalamus in children based on probability distribution functions calculated from probabilistic tractography. <b>2011</b> , 57, 403-15	20
1899	Distortion correction of high b-valued and high angular resolution diffusion images using iterative simulated images. <b>2011</b> , 57, 968-78	20
1898	Discriminating schizophrenia and bipolar disorder by fusing fMRI and DTI in a multimodal CCA+ joint ICA model. <b>2011</b> , 57, 839-55	179
1897	The generation and validation of white matter connectivity importance maps. <b>2011</b> , 58, 109-21	32
1896	Imaging genetics in multiple sclerosis: a volumetric and diffusion tensor MRI study of APOE $\epsilon$ . <b>2011</b> , 58, 724-31	5
1895	Probabilistic fibre tract analysis of cytoarchitectonically defined human inferior parietal lobule areas reveals similarities to macaques. <b>2011</b> , 58, 362-80	181

1894	Evaluation of fiber bundles across subjects through brain mapping and registration of diffusion tensor data. <b>2011</b> , 54 Suppl 1, S165-75	8
1893	Network analysis detects changes in the contralesional hemisphere following stroke. <b>2011</b> , 54, 161-9	160
1892	Diffusion weighted imaging distinguishes the vegetative state from the minimally conscious state. <b>2011</b> , 54, 103-12	168
1891	Conserved and variable architecture of human white matter connectivity. <b>2011</b> , 54, 1262-79	284
1890	Atlas-based fiber bundle segmentation using principal diffusion directions and spherical harmonic coefficients. <b>2011</b> , 54 Suppl 1, S146-64	18
1889	Clustering probabilistic tractograms using independent component analysis applied to the thalamus. <b>2011</b> , 54, 2020-32	52
1888	Callosal tracts and patterns of hemispheric dominance: a combined fMRI and DTI study. <b>2011</b> , 54, 779-86	46
1887	Heuristics for connectivity-based brain parcellation of SMA/pre-SMA through force-directed graph layout. <b>2011</b> , 54, 2176-84	14
1886	Processing social aspects of human gaze: a combined fMRI-DTI study. <b>2011</b> , 55, 411-9	98
1885	Statistical analysis of minimum cost path based structural brain connectivity. <b>2011</b> , 55, 557-65	8
1884	White matter integrity in right hemisphere predicts pitch-related grammar learning. <b>2011</b> , 55, 500-7	52
1883	Characterization of the corpus callosum in very preterm and full-term infants utilizing MRI. <b>2011</b> , 55, 479-90	93
1882	White matter damage and cognitive impairment after traumatic brain injury. <b>2011</b> , 134, 449-63	448
1881	Brain Imaging in Behavioral Medicine and Clinical Neuroscience. <b>2011</b> ,	5
1880	An introduction to diffusion tensor image analysis. <b>2011</b> , 22, 185-96, viii	205
1879	Structural and Functional Neuroimaging Methods: Applications to Substance Abuse and Addiction. <b>2011</b> , 37-82	1
1878	Brain Mapping. <b>2011</b> ,	39
1877	Quantitative diffusion tensor deterministic and probabilistic fiber tractography in relapsing-remitting multiple sclerosis. <b>2011</b> , 79, 101-7	17

1876	Effects of practice and experience on the arcuate fasciculus: comparing singers, instrumentalists, and non-musicians. <b>2011</b> , 2, 156	182
1875	Computer aided diagnosis system for Alzheimer disease using brain diffusion tensor imaging features selected by Pearson's correlation. <b>2011</b> , 502, 225-9	99
1874	Disrupted thalamocortical connectivity in PSP: a resting-state fMRI, DTI, and VBM study. <b>2011</b> , 17, 599-605	125
1873	Syntactic processing depends on dorsal language tracts. <b>2011</b> , 72, 397-403	206
1872	Multimodal neuroimaging in patients with disorders of consciousness showing "functional hemispherectomy". <b>2011</b> , 193, 323-33	34
1871	White matter damage in primary progressive aphasia: a diffusion tensor tractography study. <b>2011</b> , 134, 3011-29	235
1870	Normal and abnormal development of the cerebellum and brainstem as depicted by diffusion tensor imaging. <b>2011</b> , 32, 539-54	13
1869	White matter integrity correlates of implicit sequence learning in healthy aging. <b>2011</b> , 32, 2317.e1-12	85
1868	Technical note: DTI measurements of fractional anisotropy and mean diffusivity at 1.5 T: comparison of two radiofrequency head coils with different functional designs and sensitivities. <b>2011</b> , 38, 3205-11	25
1867	Diffusion tensor imaging: exploring the motor networks and clinical applications. <b>2011</b> , 12, 651-61	24
1866	Callosal connections of primary visual cortex predict the spatial spreading of binocular rivalry across the visual hemifields. <b>2011</b> , 5, 161	32
1865	Automated probabilistic reconstruction of white-matter pathways in health and disease using an atlas of the underlying anatomy. <b>2011</b> , 5, 23	361
1864	The role of long-range connectivity for the characterization of the functional-anatomical organization of the cortex. <b>2011</b> , 5, 58	37
1863	Mapping the structural brain changes in Alzheimer's disease: the independent contribution of two imaging modalities. <b>2011</b> , 26 Suppl 3, 263-74	35
1862	Neural Network Related to Hand Movement: A Combined Study of Diffusion Tensor Tractography and Functional MRI. <b>2011</b> , 23, 97-101	5
1861	Tract-specific white matter structural disruption in patients with bipolar disorder. <b>2011</b> , 13, 414-24	107
1860	Strength of default mode resting-state connectivity relates to white matter integrity in children. <b>2011</b> , 14, 738-51	49
1859	Inter-hemispheric functional connectivity disruption in children with prenatal alcohol exposure. <b>2011</b> , 35, 849-61	40

1858	The APOE e4 allele modulates brain white matter integrity in healthy adults. <b>2011</b> , 16, 908-16		125
1857	Probabilistic 4D blood flow tracking and uncertainty estimation. <b>2011</b> , 15, 720-8		18
1856	Regularization of bending and crossing white matter fibers in MRI Q-ball fields. <b>2011</b> , 29, 916-26		10
1855	Regional differences in cerebral asymmetries of human cortical white matter. <b>2011</b> , 49, 3599-604		12
1854	White matter alterations in social anxiety disorder. <b>2011</b> , 45, 1366-72		58
1853	PopTract: population-based tractography. <b>2011</b> , 30, 1829-40		18
1852	Neuroanatomical changes due to hearing loss and chronic tinnitus: a combined VBM and DTI study. <b>2011</b> , 1369, 74-88		194
1851	Sex differences in adolescent white matter architecture. <b>2011</b> , 1375, 41-8		118
1850	Diffusion tensor imaging shows white matter tracts between human auditory and visual cortex. <b>2011</b> , 213, 299-308		96
1849	Recent advances in diffusion MRI modeling: Angular and radial reconstruction. <b>2011</b> , 15, 369-96		77
1848	Artifact quantification and tractography from 3T MRI after placement of aneurysm clips in subarachnoid hemorrhage patients. <b>2011</b> , 11, 19		12
1847	Diffusion tensor imaging differences relate to memory deficits in diffuse traumatic brain injury. <b>2011</b> , 11, 24		56
1846	32-channel RF coil optimized for brain and cervical spinal cord at 3 T. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 66, 1198-208	4.4	38
1845	Diffusion tensor imaging and beyond. <i>Magnetic Resonance in Medicine</i> , <b>2011</b> , 65, 1532-56	4.4	618
1844	Probabilistic fiber tracking using the residual bootstrap with constrained spherical deconvolution. <b>2011</b> , 32, 461-79		279
1843	An ex vivo imaging pipeline for producing high-quality and high-resolution diffusion-weighted imaging datasets. <b>2011</b> , 32, 544-63		166
1842	Lateralization of the arcuate fasciculus and its differential correlation with reading ability between young learners and experienced readers: a diffusion tensor tractography study in a Chinese cohort. <b>2011</b> , 32, 2054-63		24
1841	Differential language expertise related to white matter architecture in regions subserving sensory-motor coupling, articulation, and interhemispheric transfer. <b>2011</b> , 32, 2064-74		46



1840	Loss of white matter integrity in major depressive disorder: evidence using tract-based spatial statistical analysis of diffusion tensor imaging. <b>2011</b> , 32, 2161-71	152
1839	Fractional anisotropy-weighted front evolution algorithm for white matter tractography based on diffusion tensor imaging data. <b>2011</b> , 21, 307-314	
1838	Dissociation between diffusion MR tractography density and strength in epilepsy patients with hippocampal sclerosis. <b>2011</b> , 93, 197-203	17
1837	A framework on surface-based connectivity quantification for the human brain. <b>2011</b> , 197, 324-32	6
1836	Principles and limitations of computational algorithms in clinical diffusion tensor MR tractography. <b>2011</b> , 32, 3-13	86
1835	Thalamocortical connectivity in healthy children: asymmetries and robust developmental changes between ages 8 and 17 years. <b>2011</b> , 32, 962-9	24
1834	Modeling diffusion-weighted MRI as a spatially variant gaussian mixture: application to image denoising. <b>2011</b> , 38, 4350-64	7
1833	Multi-institutional evaluation of deep brain stimulation targeting using probabilistic connectivity-based thalamic segmentation. <b>2011</b> , 115, 995-1004	99
1832	Integration of structural and functional magnetic resonance imaging in amyotrophic lateral sclerosis. <b>2011</b> , 134, 3470-9	195
1831	The role of diffusion tensor imaging in the study of cognitive aging. <b>2012</b> , 11, 289-320	23
1830	Tractography: where do we go from here?. <b>2011</b> , 1, 169-83	429
1829	SIMULATING CONVECTION-ENHANCED DELIVERY IN THE PUTAMEN USING PROBABILISTIC TRACTOGRAPHY. <b>2011</b> , 2011, 787-790	1
1828	Source-based morphometry analysis of group differences in fractional anisotropy in schizophrenia. <b>2011</b> , 1, 133-45	37
1827	Effect of white matter anisotropy in modeling electroconvulsive therapy. <b>2011</b> , 2011, 5492-5	
1826	BOX SPLINE BASED 3D TOMOGRAPHIC RECONSTRUCTION OF DIFFUSION PROPAGATORS FROM MRI DATA. <b>2011</b> , 2011, 397-400	3
1825	Exploiting hierarchy in structural brain networks. <b>2011</b> ,	
1824	Direct structural connections between voice- and face-recognition areas. <b>2011</b> , 31, 12906-15	117
1823	Brain hemispheric structural efficiency and interconnectivity rightward asymmetry in human and nonhuman primates. <b>2011</b> , 21, 56-67	136

1822	Ventral premotor cortex may be required for dynamic changes in the feeling of limb ownership: a lesion study. <b>2011</b> , 31, 4852-7	85
1821	White matter anisotropy in the ventral language pathway predicts sound-to-word learning success. <b>2011</b> , 31, 8780-5	86
1820	A stable sparse fear memory trace in human amygdala. <b>2011</b> , 31, 9383-9	56
1819	Fractional anisotropy changes after several weeks of daily left high-frequency repetitive transcranial magnetic stimulation of the prefrontal cortex to treat major depression. <b>2011</b> , 27, 5-10	33
1818	White Matter Changes in Bipolar Disorder, Alzheimer Disease, and Mild Cognitive Impairment: New Insights from DTI. <b>2011</b> , 2011, 286564	18
1817	One week of motor adaptation induces structural changes in primary motor cortex that predict long-term memory one year later. <b>2011</b> , 31, 11808-13	104
1816	Resolving complex fibre configurations using two-tensor random-walk stochastic algorithms. <b>2011</b> ,	
1815	The contribution of the putamen to sensory aspects of pain: insights from structural connectivity and brain lesions. <b>2011</b> , 134, 1987-2004	74
1814	Atrophy, hypometabolism and white matter abnormalities in semantic dementia tell a coherent story. <b>2011</b> , 134, 2025-35	152
1813	Efficient, Graph-based White Matter Connectivity from Orientation Distribution Functions via Multi-directional Graph Propagation. <b>2011</b> , 7962, 796205	1
1812	Deep and superficial amygdala nuclei projections revealed in vivo by probabilistic tractography. <b>2011</b> , 31, 618-23	115
1811	Age-related memory deficits linked to circuit-specific disruptions in the hippocampus. <b>2011</b> , 108, 8873-8	287
1810	Fiber tractography and tract segmentation in multiple sclerosis lesions. <b>2011</b> ,	2
1809	Motor practice promotes increased activity in brain regions structurally disconnected after subcortical stroke. <b>2011</b> , 25, 607-16	42
1808	A swarm tracking approach for stochastic white matter tractography. <b>2011</b> ,	1
1807	Sex- and brain size-related small-world structural cortical networks in young adults: a DTI tractography study. <b>2011</b> , 21, 449-58	201
1806	Directional diffusivity changes in the optic nerve and optic radiation in optic neuritis. <b>2011</b> , 84, 304-14	19
1805	Altered functional and anatomical connectivity in schizophrenia. <b>2011</b> , 37, 640-50	280

1804	White matter microstructure in patients with obsessive-compulsive disorder. <b>2011</b> , 36, 42-6	59
1803	Diffuse tract damage in the hemispheric deep white matter may correlate with global cognitive impairment and callosal atrophy in patients with extensive leukoaraiosis. <b>2012</b> , 33, 726-32	24
1802	DTI and MR Volumetry of Hippocampus-PC/PCC Circuit: In Search of Early Micro- and Macrostructural Signs of Alzheimer's Disease. <b>2012</b> , 2012, 517876	26
1801	Investigation of anatomical thalamo-cortical connectivity and fMRI activation in schizophrenia. <b>2012</b> , 37, 499-507	115
1800	Spatial transformation of DWI data using non-negative sparse representation. <b>2012</b> , 31, 2035-49	25
1799	Advanced magnetic resonance imaging of neuromyelitis optica: a multiparametric approach. <b>2012</b> , 18, 817-24	55
1798	White matter development in adolescence: diffusion tensor imaging and meta-analytic results. <b>2012</b> , 38, 1308-17	159
1797	White-matter connectivity between face-responsive regions in the human brain. <b>2012</b> , 22, 1564-76	200
1796	Decreased fractional anisotropy evaluated using tract-based spatial statistics and correlated with cognitive dysfunction in patients with mild traumatic brain injury in the chronic stage. <b>2012</b> , 33, 2117-22	52
1795	Fiber orientation-dependent white matter contrast in gradient echo MRI. <b>2012</b> , 109, 18559-64	233
1794	Fractional anisotropy in the posterior limb of the internal capsule and prognosis in amyotrophic lateral sclerosis. <b>2012</b> , 69, 1493-9	55
1793	Generation of individualized thalamus target maps by using statistical shape models and thalamocortical tractography. <b>2012</b> , 33, 2110-6	52
1792	Accelerating Fibre Orientation Estimation from Diffusion Weighted Magnetic Resonance Imaging Using GPUs. <b>2012</b> ,	3
1791	Conserved functional connectivity but impaired effective connectivity of thalamocortical circuitry in schizophrenia. <b>2012</b> , 2, 311-9	12
1790	Effects of electroconvulsive therapy stimulus pulsewidth and amplitude computed with an anatomically-realistic head model. <b>2012</b> , 2012, 2559-62	3
1789	Emotional voice areas: anatomic location, functional properties, and structural connections revealed by combined fMRI/DTI. <b>2012</b> , 22, 191-200	130
1788	An integrated framework for high angular resolution diffusion imaging-based investigation of structural connectivity. <b>2012</b> , 2, 69-79	8
1787	Multimodal imaging and image analysis techniques for neuromodulation. <b>2012</b> , 107, 235-52	

1786	White matter microstructural correlates of superior long-term skill gained implicitly under randomized practice. <b>2012</b> , 22, 1671-7	33
1785	Spatiotemporal dynamics of bimanual integration in human somatosensory cortex and their relevance to bimanual object manipulation. <b>2012</b> , 32, 5667-77	23
1784	Aging and inhibitory control of action: cortico-subthalamic connection strength predicts stopping performance. <b>2012</b> , 32, 8401-12	115
1783	Functional graph alterations in schizophrenia: a result from a global anatomic decoupling?. <b>2012</b> , 45 Suppl 1, S57-64	23
1782	A combined post-mortem magnetic resonance imaging and quantitative histological study of multiple sclerosis pathology. <b>2012</b> , 135, 2938-51	111
1781	Structural human brain networks: hot topics in diffusion tractography. <b>2012</b> , 25, 375-83	99
1780	Abnormal thalamocortical structural and functional connectivity in juvenile myoclonic epilepsy. <b>2012</b> , 135, 3635-44	111
1779	Contrasting connectivity of the ventralis intermedialis and ventralis oralis posterior nuclei of the motor thalamus demonstrated by probabilistic tractography. <b>2012</b> , 70, 162-9; discussion 169	58
1778	Connectivity-based structural and functional parcellation of the human cortex using diffusion imaging and tractography. <b>2012</b> , 6, 34	51
1777	Magnetic resonance connectome automated pipeline: an overview. <b>2012</b> , 3, 42-8	22
1776	Enhanced DTI Tracking with Adaptive Tensor Interpolation. <b>2012</b> , 173-190	2
1775	Probabilistic Brain Fiber Tractography on GPUs. <b>2012</b> ,	2
1774	Modelling fibre fanning in diffusion-weighted MRI. <b>2012</b> ,	
1773	The Structural Connectivity Underpinning Language Aptitude, Working Memory, and IQ in the Perisylvian Language Network. <b>2012</b> , 62, 110-130	37
1772	Mapping changes of in vivo connectivity patterns in the human mediodorsal thalamus: correlations with higher cognitive and executive functions. <b>2012</b> , 6, 472-83	24
1771	SMT: a reliability based interactive DTI tractography algorithm. <b>2012</b> , 31, 1929-40	6
1770	Toward whole-brain maps of neural connections: Logical framework and fast implementation. <b>2012</b> ,	
1769	Structure Tensor Informed Fiber Tractography (STIFT) by combining gradient echo MRI and diffusion weighted imaging. <b>2012</b> , 59, 3941-54	15

1768	The pulvinar regulates information transmission between cortical areas based on attention demands. <b>2012</b> , 337, 753-6	613
1767	Difference of neural connectivity for motor function in chronic hemiparetic stroke patients with intracerebral hemorrhage. <b>2012</b> , 531, 80-5	7
1766	White matter abnormalities associated with disruptive behavior disorder in adolescents with and without attention-deficit/hyperactivity disorder. <b>2012</b> , 202, 245-51	32
1765	Fronto-limbic microstructure and structural connectivity in remission from major depression. <b>2012</b> , 204, 40-8	35
1764	Large scale brain models of epilepsy: dynamics meets connectomics. <b>2012</b> , 83, 1238-48	197
1763	Frontal-occipital connectivity during visual search. <b>2012</b> , 2, 164-75	19
1762	Uncertainty Visualization in HARDI based on Ensembles of ODFs. <b>2012</b> , 2013, 193-200	21
1761	Multi-region competitive tractography via graph-based random walks. <b>2012</b> ,	1
1760	A fiber tracking method guided by volumetric tract segmentation. <b>2012</b> ,	1
1759	Tract-based spatial statistics (TBSS): application to detecting white matter tract variation in mild hypoxic-ischemic neonates. <b>2012</b> , 2012, 432-5	5
1758	Bilateral redundancy gain and callosal integrity in a man with callosal lipoma: a diffusion-tensor imaging study. <b>2012</b> , 18, 185-98	1
1757	A neighborhood-based probabilistic approach for fiber tracking in human cardiac DTI. <b>2012</b> ,	1
1756	White matter tract integrity predicts visual search performance in young and older adults. <b>2012</b> , 33, 433.e21-31	15
1755	Diffusion tensor imaging: tract based spatial statistics study in essential tremor. <b>2012</b> , 18, 477-82	47
1754	Corticostriatal connectivity underlies individual differences in the balance between habitual and goal-directed action control. <b>2012</b> , 32, 12066-75	277
1753	Advanced magnetic resonance neuroimaging of language function recovery after aphasic stroke: a technical review. <b>2012</b> , 93, S4-14	17
1752	Discovering Alzheimer's disease and bipolar disorder white matter effects building computer aided diagnostic systems on brain diffusion tensor imaging features. <b>2012</b> , 520, 71-6	33
1751	The neural connectivity of the inferior olivary nucleus in the human brain: a diffusion tensor tractography study. <b>2012</b> , 523, 67-70	10

1750	Selective changes in white matter integrity in MCI and older adults with cognitive complaints. <b>2012</b> , 1822, 423-30	79
1749	Neurodegenerative dementias: From MR Physics lab to assessment room. <b>2012</b> , 127, 1	3
1748	Characterizing a neurodegenerative syndrome: primary progressive apraxia of speech. <b>2012</b> , 135, 1522-36	253
1747	Sex differences in white matter development during adolescence: a DTI study. <b>2012</b> , 1478, 1-15	69
1746	Convergence and divergence of thickness correlations with diffusion connections across the human cerebral cortex. <b>2012</b> , 59, 1239-48	232
1745	Cardiorespiratory fitness is positively correlated with cerebral white matter integrity in healthy seniors. <b>2012</b> , 59, 1514-23	124
1744	Diffusion tractography of post-mortem human brains: optimization and comparison of spin echo and steady-state free precession techniques. <b>2012</b> , 59, 2284-97	59
1743	White matter integrity deficits in prefrontal-amygdala pathways in Williams syndrome. <b>2012</b> , 59, 887-94	20
1742	Compartment models of the diffusion MR signal in brain white matter: a taxonomy and comparison. <b>2012</b> , 59, 2241-54	314
1741	Resolution of crossing fibers with constrained compressed sensing using diffusion tensor MRI. <b>2012</b> , 59, 2175-86	97
1740	Bayesian inference in FMRI. <b>2012</b> , 62, 801-10	37
1739	Diffusion MRI at 25: exploring brain tissue structure and function. <b>2012</b> , 61, 324-41	305
1738	Corpus callosum alterations in very preterm infants: perinatal correlates and 2 year neurodevelopmental outcomes. <b>2012</b> , 59, 3571-81	79
1737	Confirmation of functional zones within the human subthalamic nucleus: patterns of connectivity and sub-parcellation using diffusion weighted imaging. <b>2012</b> , 60, 83-94	246
1736	The functional connectivity of the human caudate: an application of meta-analytic connectivity modeling with behavioral filtering. <b>2012</b> , 60, 117-29	181
1735	A comprehensive reliability assessment of quantitative diffusion tensor tractography. <b>2012</b> , 60, 1127-38	100
1734	k-space and q-space: combining ultra-high spatial and angular resolution in diffusion imaging using ZOOPPA at 7 T. <b>2012</b> , 60, 967-78	109
1733	Can magnetoencephalography track the afferent information flow along white matter thalamo-cortical fibers?. <b>2012</b> , 60, 1092-105	33

1732	Ball and rackets: Inferring fiber fanning from diffusion-weighted MRI. <b>2012</b> , 60, 1412-25	124
1731	DTI segmentation via the combined analysis of connectivity maps and tensor distances. <b>2012</b> , 60, 1025-35	11
1730	Inferring consistent functional interaction patterns from natural stimulus fMRI data. <b>2012</b> , 61, 987-99	21
1729	Modelling with independent components. <b>2012</b> , 62, 891-901	163
1728	A multi-modal investigation of behavioral adjustment: post-error slowing is associated with white matter characteristics. <b>2012</b> , 61, 195-205	14
1727	Quantitative assessment of a framework for creating anatomical brain networks via global tractography. <b>2012</b> , 61, 1017-30	33
1726	NODDI: practical in vivo neurite orientation dispersion and density imaging of the human brain. <b>2012</b> , 61, 1000-16	1589
1725	Determining functional connectivity using fMRI data with diffusion-based anatomical weighting. <b>2012</b> , 62, 1769-79	54
1724	Human cortical connectome reconstruction from diffusion weighted MRI: the effect of tractography algorithm. <b>2012</b> , 62, 1732-49	143
1723	A DTI tractography analysis of infralimbic and prelimbic connectivity in the mouse using high-throughput MRI. <b>2012</b> , 63, 800-11	32
1722	A robust method for investigating thalamic white matter tracts after traumatic brain injury. <b>2012</b> , 63, 779-88	31
1721	Tractography-based parcellation of the human left inferior parietal lobule. <b>2012</b> , 63, 641-52	77
1720	White matter integrity of the descending pain modulatory system is associated with interindividual differences in placebo analgesia. <b>2012</b> , 153, 2210-2217	85
1719	White matter tract abnormalities in first-episode psychosis. <b>2012</b> , 141, 29-34	19
1718	Anatomical connectivity patterns predict face selectivity in the fusiform gyrus. <b>2011</b> , 15, 321-7	216
1717	Diffusion MRI of the neonate brain: acquisition, processing and analysis techniques. <b>2012</b> , 42, 1169-82	40
1716	Diffusion magnetic resonance imaging for Brainnetome: a critical review. <b>2012</b> , 28, 375-88	11
1715	The corpus callosum in monozygotic twins concordant and discordant for handedness and language dominance. <b>2012</b> , 24, 1971-82	7

1714	Functional Neuroimaging in Exercise and Sport Sciences. <b>2012</b> ,		10
1713	White matter connectivity in children with autism spectrum disorders: a tract-based spatial statistics study. <b>2012</b> , 12, 148		85
1712	Brain Imaging in Behavioral Neuroscience. <b>2012</b> ,		1
1711	Tract specific reproducibility of tractography based morphology and diffusion metrics. <b>2012</b> , 7, e34125		47
1710	Increased cortical-limbic anatomical network connectivity in major depression revealed by diffusion tensor imaging. <b>2012</b> , 7, e45972		68
1709	Mapping the Alzheimer's brain with connectomics. <b>2011</b> , 2, 77		82
1708	The Claustrum and Insula in <i>Microcebus murinus</i> : A High Resolution Diffusion Imaging Study. <b>2012</b> , 6, 21		33
1707	Validation of connectivity-based thalamic segmentation with direct electrophysiologic recordings from human sensory thalamus. <b>2012</b> , 59, 2025-34		46
1706	Compensatory role of the cortico-rubro-spinal tract in motor recovery after stroke. <b>2012</b> , 79, 515-22		81
1705	Blipped-controlled aliasing in parallel imaging for simultaneous multislice echo planar imaging with reduced g-factor penalty. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 1210-24	4.4	846
1704	Implementation and assessment of diffusion-weighted partial Fourier readout-segmented echo-planar imaging. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 441-51	4.4	27
1703	Six is enough? Comparison of diffusion parameters measured using six or more diffusion-encoding gradient directions with deterministic tractography. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 474-83	4.4	73
1702	Correction of vibration artifacts in DTI using phase-encoding reversal (COVIPER). <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 882-9	4.4	38
1701	Model-based analysis of multishell diffusion MR data for tractography: how to get over fitting problems. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 68, 1846-55	4.4	222
1700	Predicting functional motor potential in chronic stroke patients using diffusion tensor imaging. <b>2012</b> , 33, 1040-51		182
1699	The effects of connection reconstruction method on the interregional connectivity of brain networks via diffusion tractography. <b>2012</b> , 33, 1894-913		75
1698	Probabilistic tractography recovers a rostrocaudal trajectory of connectivity variability in the human insular cortex. <b>2012</b> , 33, 2005-34		200
1697	Diffusion tensor imaging of the optic radiations after optic neuritis. <b>2012</b> , 33, 2047-61		37



1696	Parieto-frontal network in humans studied by cortico-cortical evoked potential. <b>2012</b> , 33, 2856-72	82
1695	Degeneration of corpus callosum and recovery of motor function after stroke: a multimodal magnetic resonance imaging study. <b>2012</b> , 33, 2941-56	92
1694	A review of magnetic resonance imaging and diffusion tensor imaging findings in mild traumatic brain injury. <b>2012</b> , 6, 137-92	627
1693	Cigarette smoking and white matter microstructure. <b>2012</b> , 221, 285-95	72
1692	Connectivity-based parcellation reveals interhemispheric differences in the insula. <b>2012</b> , 25, 264-71	90
1691	White matter microstructure in opiate addiction. <b>2012</b> , 17, 141-8	97
1690	Human connectomics. <b>2012</b> , 22, 144-53	183
1689	Development of white matter pathways in typically developing preadolescent children. <b>2012</b> , 1466, 33-43	23
1688	Atypical hemispheric asymmetry in the arcuate fasciculus of completely nonverbal children with autism. <b>2012</b> , 1252, 332-7	45
1687	Anterior visual pathway assessment by magnetic resonance imaging in normal-pressure glaucoma. <b>2012</b> , 90, e295-302	44
1686	Modeling the orientation distribution function by mixtures of angular central Gaussian distributions. <b>2012</b> , 203, 200-11	12
1685	A novel approach for improved tractography and quantitative analysis of probabilistic fibre tracking curves. <b>2012</b> , 16, 227-38	7
1684	The effect of gradient sampling schemes on diffusion metrics derived from probabilistic analysis and tract-based spatial statistics. <b>2012</b> , 30, 402-12	13
1683	Enhancement of fiber orientation distribution reconstruction in diffusion-weighted imaging by single channel blind source separation. <b>2012</b> , 59, 363-73	6
1682	Doxycycline treatment in a neonatal rat model of hypoxia-ischemia reduces cerebral tissue and white matter injury: a longitudinal magnetic resonance imaging study. <b>2012</b> , 36, 2006-16	15
1681	Direct optic nerve pulvinar connections defined by diffusion MR tractography in humans: implications for photophobia. <b>2012</b> , 33, 75-88	58
1680	White matter maturation in visual and motor areas predicts the latency of visual activation in children. <b>2012</b> , 33, 179-91	21
1679	Sensitive period for white-matter connectivity of superior temporal cortex in deaf people. <b>2012</b> , 33, 349-59	41

1678	MRtrix: Diffusion tractography in crossing fiber regions. <b>2012</b> , 22, 53-66	849
1677	Thalamus segmentation based on the local diffusion direction: a group study. <i>Magnetic Resonance in Medicine</i> , <b>2012</b> , 67, 118-26	4-4 33
1676	Fast approximate stochastic tractography. <b>2012</b> , 10, 5-17	3
1675	Probing tissue microstructure with restriction spectrum imaging: Histological and theoretical validation. <b>2013</b> , 34, 327-46	134
1674	Inferior frontal white matter asymmetry correlates with executive control of attention. <b>2013</b> , 34, 796-813	57
1673	Functional connectivity-based identification of subdivisions of the basal ganglia and thalamus using multilevel independent component analysis of resting state fMRI. <b>2013</b> , 34, 1371-85	63
1672	Callosal fiber length and interhemispheric connectivity in adults with autism: brain overgrowth and underconnectivity. <b>2013</b> , 34, 1685-95	33
1671	Effects of chronic mild traumatic brain injury on white matter integrity in Iraq and Afghanistan war veterans. <b>2013</b> , 34, 2986-99	89
1670	Can complex visual discrimination deficits in amnesia be attributed to the medial temporal lobe? An investigation into the effects of medial temporal lobe damage on brain connectivity. <b>2013</b> , 23, 7-13	14
1669	Neuroimaging of Movement Disorders. <b>2013</b> ,	1
1668	fMRI. <b>2013</b> ,	3
1667	Bayesian characterization of uncertainty in intra-subject non-rigid registration. <b>2013</b> , 17, 538-55	35
1666	Modeling in Computational Biology and Biomedicine. <b>2013</b> ,	1
1665	Mechanisms and Emerging Therapies in Tremor Disorders. <b>2013</b> ,	12
1664	Parietal connectivity mediates multisensory facilitation. <b>2013</b> , 78, 396-401	21
1663	Diffusion tensor imaging reveals widespread white matter abnormalities in children and adolescents with myotonic dystrophy type 1. <b>2013</b> , 260, 1122-31	37
1662	Central mechanisms of pain revealed through functional and structural MRI. <b>2013</b> , 8, 518-34	217
1661	Illustrative uncertainty visualization of DTI fiber pathways. <b>2013</b> , 29, 297-309	15

1660	Alzheimer's disease and amnesic mild cognitive impairment weaken connections within the default-mode network: a multi-modal imaging study. <b>2013</b> , 34, 969-84	58
1659	Global tracking in human gliomas: a comparison with established tracking methods. <b>2013</b> , 23, 263-75	6
1658	Investigating the need of triggering the acquisition for infant diffusion MRI: a quantitative study including bootstrap statistics. <b>2013</b> , 69, 198-205	5
1657	White matter characterization of adolescent binge drinking with and without co-occurring marijuana use: a 3-year investigation. <b>2013</b> , 214, 374-81	83
1656	Distribution of the corticobulbar tract in the internal capsule. <b>2013</b> , 334, 63-8	29
1655	Angular smoothing and radial regularization of ODF fields: application on deterministic crossing fiber tractography. <b>2013</b> , 29, 17-32	3
1654	Alterations of superficial white matter in schizophrenia and relationship to cognitive performance. <b>2013</b> , 38, 1954-62	79
1653	Fiber clustering versus the parcellation-based connectome. <b>2013</b> , 80, 283-9	69
1652	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <b>2013</b> , 80, 125-43	596
1651	Delineation of motor and somatosensory thalamic subregions utilizing probabilistic diffusion tractography and electrophysiology. <b>2013</b> , 37, 600-9	16
1650	Reliable estimation of incoherent motion parametric maps from diffusion-weighted MRI using fusion bootstrap moves. <b>2013</b> , 17, 325-36	56
1649	Magnetic resonance imaging of a randomized controlled trial investigating predictors of recovery following psychological treatment in adolescents with moderate to severe unipolar depression: study protocol for Magnetic Resonance-Improving Mood with Psychoanalytic and Cognitive Therapies (MIRIAMPACT). <b>2013</b> , 13, 2-17	10
1648	Walk the line: from diffusion imaging to the microstructure of the brain. <b>2013</b> , 23, 261-2	0
1647	Brain white matter structural properties predict transition to chronic pain. <b>2013</b> , 154, 2160-2168	167
1646	Functional organisation of visual pathways in a patient with no optic chiasm. <b>2013</b> , 51, 1260-72	10
1645	Associations between fractional anisotropy and problematic alcohol use in juvenile justice-involved adolescents. <b>2013</b> , 39, 365-71	16
1644	A Framework for Inter-Subject Prediction of Functional Connectivity From Structural Networks. <b>2013</b> , 32, 2200-14	19
1643	Examination of frontal and parietal tectocortical attention pathways in spina bifida meningocele using probabilistic diffusion tractography. <b>2013</b> , 3, 512-22	15

1642	Cerebellar networks with basal ganglia: feasibility for tracking cerebello-pallidal and subthalamo-cerebellar projections in the human brain. <b>2013</b> , 38, 3106-14	74
1641	De Leiden Lang Leven Studie: weerspiegelt het brein een lang leven?. <b>2013</b> , 17, 167-172	
1640	RubiX: combining spatial resolutions for Bayesian inference of crossing fibers in diffusion MRI. <b>2013</b> , 32, 969-82	29
1639	Functional organization of the neural language system: dorsal and ventral pathways are critical for syntax. <b>2013</b> , 23, 139-47	81
1638	Diffusion imaging in neurological disease. <b>2013</b> , 260, 335-42	7
1637	The influence of preterm birth on the developing thalamocortical connectome. <b>2013</b> , 49, 1711-21	156
1636	Prenatal cocaine exposure alters functional activation in the ventral prefrontal cortex and its structural connectivity with the amygdala. <b>2013</b> , 213, 47-55	24
1635	Quantifying diffusion MRI tractography of the corticospinal tract in brain tumors with deterministic and probabilistic methods. <b>2013</b> , 3, 361-8	92
1634	Diffusion tensor imaging detects microstructural reorganization in the brain associated with chronic irritable bowel syndrome. <b>2013</b> , 154, 1528-1541	112
1633	Using in vivo probabilistic tractography to reveal two segregated dorsal 'language-cognitive' pathways in the human brain. <b>2013</b> , 127, 230-40	18
1632	Gradient echo based fiber orientation mapping using R2* and frequency difference measurements. <b>2013</b> , 83, 1011-23	54
1631	Improving alignment in Tract-based spatial statistics: evaluation and optimization of image registration. <b>2013</b> , 76, 400-11	120
1630	Polygenic risk and white matter integrity in individuals at high risk of mood disorder. <b>2013</b> , 74, 280-6	94
1629	Numerical investigation of white matter anisotropic conductivity in defining current distribution under tDCS. <b>2013</b> , 109, 48-64	40
1628	Structural connectivity of visuotopic intraparietal sulcus. <b>2013</b> , 82, 137-45	33
1627	White matter impairment in the speech network of individuals with autism spectrum disorder. <b>2013</b> , 3, 234-41	13
1626	Subcortical substrates of TMS induced modulation of the cortico-cortical connectivity. <b>2013</b> , 6, 138-46	20
1625	Not lesser but Greater fractional anisotropy in adolescents with alcohol use disorders. <b>2013</b> , 2, 804-9	26

1624	Measuring small compartment dimensions by probing diffusion dynamics via Non-uniform Oscillating-Gradient Spin-Echo (NOGSE) NMR. <b>2013</b> , 237, 49-62	29
1623	Brain effects of cognitive remediation therapy in schizophrenia: a structural and functional neuroimaging study. <b>2013</b> , 73, 1015-23	135
1622	Functional responses and structural connections of cortical areas for processing faces and voices in the superior temporal sulcus. <b>2013</b> , 76, 45-56	60
1621	Disease severity is correlated to tract specific changes of fractional anisotropy in MD and CM thalamus—a DTI study in major depressive disorder. <b>2013</b> , 149, 116-28	31
1620	Lattice independent component analysis feature selection on diffusion weighted imaging for Alzheimer’s disease classification. <b>2013</b> , 114, 132-141	12
1619	Probabilistic tractography using Q-ball imaging and particle filtering: application to adult and in-utero fetal brain studies. <b>2013</b> , 17, 297-310	16
1618	Subregions of the human superior frontal gyrus and their connections. <b>2013</b> , 78, 46-58	220
1617	Left ear advantage in speech-related dichotic listening is not specific to auditory processing disorder in children: A machine-learning fMRI and DTI study. <b>2013</b> , 3, 8-17	20
1616	Visual callosal topography in the absence of retinal input. <b>2013</b> , 81, 325-334	23
1615	Feasibility of creating a high-resolution 3D diffusion tensor imaging based atlas of the human brainstem: a case study at 11.7 T. <b>2013</b> , 74, 117-27	51
1614	Simulated dive in rats lead to acute changes in cerebral blood flow on MRI, but no cerebral injuries to grey or white matter. <b>2013</b> , 113, 1405-14	3
1613	Longitudinal changes in white matter integrity among adolescent substance users. <b>2013</b> , 37 Suppl 1, E181-9	116
1612	Linking human brain local activity fluctuations to structural and functional network architectures. <b>2013</b> , 73, 144-55	59
1611	Gaussian phase distribution approximations for oscillating gradient spin echo diffusion MRI. <b>2013</b> , 227, 25-34	39
1610	Connectivity-based parcellation of the human frontal pole with diffusion tensor imaging. <b>2013</b> , 33, 6782-90	80
1609	Comparing connectomes across subjects and populations at different scales. <b>2013</b> , 80, 416-25	55
1608	Anatomical brain networks on the prediction of abnormal brain states. <b>2013</b> , 3, 1-21	33
1607	Graph analysis of the human connectome: promise, progress, and pitfalls. <b>2013</b> , 80, 426-44	493

1606	White matter integrity, fiber count, and other fallacies: the do's and don'ts of diffusion MRI. <b>2013</b> , 73, 239-54	1584
1605	Two-tensor model-based bootstrapping on classified tensor morphologies: estimation of uncertainty in fiber orientation and probabilistic tractography. <b>2013</b> , 31, 296-312	1
1604	Reproducibility and biases in high field brain diffusion MRI: An evaluation of acquisition and analysis variables. <b>2013</b> , 31, 827-39	28
1603	The Human Connectome Project and beyond: initial applications of 300 mT/m gradients. <b>2013</b> , 80, 234-45	228
1602	Default mode network activity and white matter integrity in healthy middle-aged ApoE4 carriers. <b>2013</b> , 7, 60-7	47
1601	Probabilistic diffusion tractography and graph theory analysis reveal abnormal white matter structural connectivity networks in drug-naive boys with attention deficit/hyperactivity disorder. <b>2013</b> , 33, 10676-87	140
1600	Mapping putative hubs in human, chimpanzee and rhesus macaque connectomes via diffusion tractography. <b>2013</b> , 80, 462-74	83
1599	Reconstruction of white matter tracts via repeated deterministic streamline tracking--initial experience. <b>2013</b> , 8, e63082	9
1598	Abnormal white matter correlates with neuropsychological impairment in children with localization-related epilepsy. <b>2013</b> , 54, 1065-73	31
1597	Neuroimaging of Dystonia. <b>2013</b> , 165-184	
1596	Bayesian inference of structural brain networks. <b>2013</b> , 66, 543-52	22
1595	BootGraph: probabilistic fiber tractography using bootstrap algorithms and graph theory. <b>2013</b> , 66, 426-35	10
1594	3D stochastic completion fields for mapping connectivity in diffusion MRI. <b>2013</b> , 35, 983-95	13
1593	Logical foundations and fast implementation of probabilistic tractography. <b>2013</b> , 32, 1397-410	9
1592	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <b>2013</b> , 80, 80-104	534
1591	Long-range connectomics. <b>2013</b> , 1305, 83-93	24
1590	Foreign accent syndrome: a multimodal mapping study. <b>2013</b> , 49, 18-39	44
1589	Asymmetric pedunculo-pontine network connectivity in parkinsonian patients with freezing of gait. <b>2013</b> , 136, 2405-18	165

1588	Diffusion magnetic resonance imaging in preterm brain injury. <b>2013</b> , 55 Suppl 2, 65-95	46
1587	Independent component analysis tractography combined with a ball-stick model to isolate intravoxel crossing fibers of the corticospinal tracts in clinical diffusion MRI. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 441-53	4-4 20
1586	Can fully automated detection of corticospinal tract damage be used in stroke patients?. <b>2013</b> , 80, 2242-5	18
1585	Longitudinal diffusion tensor and manganese-enhanced MRI detect delayed cerebral gray and white matter injury after hypoxia-ischemia and hyperoxia. <b>2013</b> , 73, 171-9	12
1584	Impaired thalamocortical connectivity in autism spectrum disorder: a study of functional and anatomical connectivity. <b>2013</b> , 136, 1942-55	219
1583	Whole-brain magnetic resonance spectroscopic imaging measures are related to disability in ALS. <b>2013</b> , 80, 610-5	44
1582	Advanced neuroimaging in traumatic brain injury. <b>2012</b> , 32, 374-400	26
1581	White-matter changes correlate with cognitive functioning in Parkinson's disease. <b>2013</b> , 4, 37	40
1580	Multimodal imaging in systemic lupus erythematosus patients with diffuse neuropsychiatric involvement. <b>2013</b> , 22, 675-83	35
1579	Integration of XNAT/PACS, DICOM, and Research Software for Automated Multi-modal Image Analysis. <b>2013</b> , 8674,	14
1578	White matter integrity pre- and post marijuana and alcohol initiation in adolescence. <b>2013</b> , 3, 396-414	44
1577	Diffusion tensor imaging detects white matter abnormalities and associated cognitive deficits in chronic adolescent TBI. <b>2013</b> , 27, 454-63	24
1576	Decreased white matter integrity in neuropsychologically defined mild cognitive impairment is independent of cortical thinning. <b>2013</b> , 19, 925-37	23
1575	In vivo parahippocampal white matter pathology as a biomarker of disease progression to Alzheimer's disease. <b>2013</b> , 521, 4300-17	23
1574	Structural connectivity in schizophrenia and its impact on the dynamics of spontaneous functional networks. <b>2013</b> , 23, 046111	43
1573	Less efficient information transfer in Cys-allele carriers of DISC1: a brain network study based on diffusion MRI. <b>2013</b> , 23, 1715-23	28
1572	Preserved white matter integrity is a marker of familial longevity. <b>2013</b> , 74, 883-92	4
1571	Divide et impera: Acceleration of DTI tractography using multi-GPU parallel processing. <b>2013</b> , 23, 256-264	5

1570	A convex optimization framework for global tractography. <b>2013,</b>	7
1569	Ranking diffusion-MRI models with in-vivo human brain data. <b>2013,</b>	1
1568	Quantitative tractography and tract shape modeling in amyotrophic lateral sclerosis. <b>2013, 38, 1140-5</b>	14
1567	Matching structural, effective, and functional connectivity: a comparison between structural equation modeling and ancestral graphs. <b>2013, 3, 375-85</b>	3
1566	Functional and structural architecture of the human dorsal frontoparietal attention network. <b>2013, 110, 15806-11</b>	102
1565	FATCAT: (an efficient) Functional and Tractographic Connectivity Analysis Toolbox. <b>2013, 3, 523-35</b>	125
1564	White matter microstructural abnormality in children with hydrocephalus detected by probabilistic diffusion tractography. <b>2013, 34, 2379-85</b>	20
1563	PANDA: a pipeline toolbox for analyzing brain diffusion images. <b>2013, 7, 42</b>	387
1562	Diffusion-Weighted and Diffusion Tensor Imaging: Applications in Skeletal Muscles. <b>2013, 69-85</b>	
1561	Multiscale Network Organization in the Human Brain. <b>2013, 179-204</b>	14
1560	Early-stage psychotherapy produces elevated frontal white matter integrity in adult major depressive disorder. <b>2013, 8, e63081</b>	24
1559	Robust tract skeleton extraction of cingulum based on active contour model from diffusion tensor MR imaging. <b>2013, 8, e56113</b>	2
1558	Autistic traits in neurotypical adults: correlates of graph theoretical functional network topology and white matter anisotropy patterns. <b>2013, 8, e60982</b>	26
1557	Accelerating fibre orientation estimation from diffusion weighted magnetic resonance imaging using GPUs. <b>2013, 8, e61892</b>	101
1556	A hybrid CPU-GPU accelerated framework for fast mapping of high-resolution human brain connectome. <b>2013, 8, e62789</b>	19
1555	Acute effects of modafinil on brain resting state networks in young healthy subjects. <b>2013, 8, e69224</b>	38
1554	White matter abnormalities and structural hippocampal disconnections in amnesic mild cognitive impairment and Alzheimer's disease. <b>2013, 8, e74776</b>	23
1553	Validation of DTI tractography-based measures of primary motor area connectivity in the squirrel monkey brain. <b>2013, 8, e75065</b>	39



1552	Sparse solution of fiber orientation distribution function by diffusion decomposition. <b>2013</b> , 8, e75747	48
1551	Fiber pathways of attention subnetworks revealed with tract-based spatial statistics (TBSS) and probabilistic tractography. <b>2013</b> , 8, e78831	21
1550	Prediction of selective serotonin reuptake inhibitor response using diffusion-weighted MRI. <b>2013</b> , 4, 5	31
1549	Broca's area and its striatal and thalamic connections: a diffusion-MRI tractography study. <b>2013</b> , 7, 8	68
1548	Structural changes in left fusiform areas and associated fiber connections in children with abacus training: evidence from morphometry and tractography. <b>2013</b> , 7, 335	28
1547	Individual structural differences in left inferior parietal area are associated with schoolchildrens' arithmetic scores. <b>2013</b> , 7, 844	27
1546	A Framework for Linear and Non-Linear Registration of Diffusion-Weighted MRIs Using Angular Interpolation. <b>2013</b> , 7, 41	7
1545	Combined diffusion-weighted and functional magnetic resonance imaging reveals a temporal-occipital network involved in auditory-visual object processing. <b>2013</b> , 7, 5	35
1544	Neural plasticity in human brain connectivity: the effects of long term deep brain stimulation of the subthalamic nucleus in Parkinson's disease. <b>2014</b> , 9, e86496	71
1543	Combining EEG and MEG for the reconstruction of epileptic activity using a calibrated realistic volume conductor model. <b>2014</b> , 9, e93154	61
1542	An analytical model for estimating water exchange rate in white matter using diffusion MRI. <b>2014</b> , 9, e95921	7
1541	Structural and functional brain changes beyond visual system in patients with advanced glaucoma. <b>2014</b> , 9, e105931	62
1540	Consensus between pipelines in structural brain networks. <b>2014</b> , 9, e111262	14
1539	Validation of network communicability metrics for the analysis of brain structural networks. <b>2014</b> , 9, e115503	20
1538	Quantifying uncertainty in brain network measures using Bayesian connectomics. <b>2014</b> , 8, 126	9
1537	Differences in neural connectivity between the substantia nigra and ventral tegmental area in the human brain. <b>2014</b> , 8, 41	28
1536	Diffusion imaging of cerebral white matter in persons who stutter: evidence for network-level anomalies. <b>2014</b> , 8, 54	63
1535	Diffusion-tensor magnetic resonance imaging for hand and foot fibers location at the corona radiata: comparison with two lesion studies. <b>2014</b> , 8, 752	7

1534	Associations between Proprioceptive Neural Pathway Structural Connectivity and Balance in People with Multiple Sclerosis. <b>2014</b> , 8, 814	59
1533	Affective and cognitive prefrontal cortex projections to the lateral habenula in humans. <b>2014</b> , 8, 819	17
1532	The hypothesis of neuronal interconnectivity as a function of brain size-a general organization principle of the human connectome. <b>2014</b> , 8, 915	93
1531	Isotropic non-white matter partial volume effects in constrained spherical deconvolution. <b>2014</b> , 8, 28	41
1530	Diffusion Tensor Imaging. <b>2014</b> ,	
1529	Diffusion-Weighted Imaging of the Spinal Cord. <b>2014</b> , 123-145	5
1528	Snake-based brain white matter fiber reconstruction. <b>2014</b> , 24, 2945-53	
1527	Costs of control: decreased motor cortex engagement during a Go/NoGo task in Tourette's syndrome. <b>2014</b> , 137, 122-36	65
1526	Copy number deletion burden is associated with cognitive, structural, and resting-state network differences in patients with schizophrenia. <b>2014</b> , 272, 324-34	11
1525	Identifying group discriminative and age regressive sub-networks from DTI-based connectivity via a unified framework of non-negative matrix factorization and graph embedding. <b>2014</b> , 18, 1337-48	16
1524	Assessment of the contralesional corticospinal tract in early-onset pediatric hemiplegia: Preliminary findings. <b>2014</b> , 2014, 5336-9	2
1523	Nonparametric Bayesian clustering of structural whole brain connectivity in full image resolution. <b>2014</b> ,	2
1522	Thalamo-cortical connectivity: what can diffusion tractography tell us about reading difficulties in children?. <b>2014</b> , 4, 428-39	12
1521	Disrupted structural connectome is associated with both psychometric and real-world neuropsychological impairment in diffuse traumatic brain injury. <b>2014</b> , 20, 887-96	38
1520	The value and cost of complexity in predictive modelling: role of tissue anisotropic conductivity and fibre tracts in neuromodulation. <b>2014</b> , 11, 036002	40
1519	Computational Diffusion MRI. <b>2014</b> ,	3
1518	Reconciling variable findings of white matter integrity in major depressive disorder. <b>2014</b> , 39, 1332-9	49
1517	Brain Imaging Analysis. <b>2014</b> , 1, 61-85	26

1516	Connectivity-based parcellation of the human temporal pole using diffusion tensor imaging. <b>2014</b> , 24, 3365-78	84
1515	Implication of the anterior commissure in the allocation of attention to action. <b>2014</b> , 5, 432	10
1514	Scientific Visualization. <b>2014</b> ,	11
1513	Fiber-Tracking: 3-Dimensional Tract Reconstruction. <b>2014</b> , 79-96	
1512	Improving diffusion-weighted imaging of post-mortem human brains: SSFP at 7 T. <b>2014</b> , 102 Pt 2, 579-89	29
1511	Comparing Connections in the Brains of Humans and Other Primates Using Diffusion-Weighted Imaging. <b>2014</b> , 569-584	1
1510	Quantifying the pattern of optic tract degeneration in human hemianopia. <b>2014</b> , 85, 379-86	23
1509	Interpolation of diffusion weighted imaging datasets. <b>2014</b> , 103, 202-213	72
1508	Physiological and anatomical decomposition of subthalamic neurostimulation effects in essential tremor. <b>2014</b> , 137, 109-21	118
1507	Structural network efficiency is associated with cognitive impairment in small-vessel disease. <b>2014</b> , 83, 304-11	171
1506	Altered white matter integrity in the corpus callosum in fibromyalgia patients identified by tract-based spatial statistical analysis. <b>2014</b> , 66, 3190-9	20
1505	Task switching in traumatic brain injury relates to cortico-subcortical integrity. <b>2014</b> , 35, 2459-69	27
1504	Brain white matter development is associated with a human-specific haplotype increasing the synthesis of long chain fatty acids. <b>2014</b> , 34, 6367-76	21
1503	Curve Boxplot: Generalization of Boxplot for Ensembles of Curves. <b>2014</b> , 20, 2654-63	86
1502	PCLR: phase-constrained low-rank model for compressive diffusion-weighted MRI. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1330-1341	4.4 20
1501	Transcallosal connection patterns of opposite dorsal premotor regions support a lateralized specialization for action and perception. <b>2014</b> , 40, 2980-6	4
1500	White matter microstructure correlates of mathematical giftedness and intelligence quotient. <b>2014</b> , 35, 2619-31	114
1499	Characterizing white matter changes in cigarette smokers via diffusion tensor imaging. <b>2014</b> , 145, 134-42	41

1498	Cognitive and structural neuroimaging characteristics of schizophrenia patients with large, rare copy number deletions. <b>2014</b> , 224, 311-8	3
1497	Midlife measurements of white matter microstructure predict subsequent regional white matter atrophy in healthy adults. <b>2014</b> , 35, 2044-54	32
1496	Structural correlates of subjective and objective memory performance in multiple sclerosis. <b>2014</b> , 24, 436-45	20
1495	Callosal degeneration topographically correlated with cognitive function in amnesic mild cognitive impairment and Alzheimer's disease dementia. <b>2014</b> , 35, 1529-43	22
1494	Apparent exchange rate imaging in anisotropic systems. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 756-62	17
1493	Cerebral correlates of visuospatial neglect: a direct cerebral stimulation study. <b>2014</b> , 35, 1334-50	73
1492	High-resolution MRI and diffusion-weighted imaging of the human habenula at 7 tesla. <b>2014</b> , 39, 1018-26	45
1491	Deep brain stimulation of the internal globus pallidus for generalized dystonia associated with spinocerebellar ataxia type 1: a case report. <b>2014</b> , 17, 389-92	8
1490	Altered white matter microstructure underlies listening difficulties in children suspected of auditory processing disorders: a DTI study. <b>2014</b> , 4, 531-43	15
1489	Brain tissue properties differentiate between motor and limbic basal ganglia circuits. <b>2014</b> , 35, 5083-92	63
1488	Association between structural and functional connectivity in the verb generation network. <b>2014</b> , 4, 221-9	2
1487	Spatial Mapping of Translational Diffusion Coefficients Using Diffusion Tensor Imaging: A Mathematical Description. <b>2014</b> , 43, 1-27	1
1486	Inhibitory saccadic dysfunction is associated with cerebellar injury in multiple sclerosis. <b>2014</b> , 35, 2310-9	14
1485	Resolving complex fibre architecture by means of sparse spherical deconvolution in the presence of isotropic diffusion. <b>2014</b> ,	3
1484	Treatment of chronic pain: diffusion tensor imaging identification of the ventroposterolateral nucleus confirmed with successful deep brain stimulation. <b>2014</b> , 92, 365-71	16
1483	The role of probabilistic tractography in the surgical treatment of thalamic gliomas. <b>2014</b> , 10 Suppl 2, 262-72; discussion 272	17
1482	Peripheral nerves and plexus: imaging by MR-neurography and high-resolution ultrasound. <b>2014</b> , 27, 370-9	59
1481	Incidental magnetic resonance diffusion-weighted imaging-positive lesions are rare in neurologically asymptomatic community-dwelling adults. <b>2014</b> , 45, 2115-7	20

1480	Investigation of resolution effects using a specialized diffusion tensor phantom. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 71, 1108-16	4.4	23
1479	White matter integrity in alcohol-naive youth with a family history of alcohol use disorders. <b>2014</b> , 44, 2775-86		18
1478	Impaired rich club connectivity in unaffected siblings of schizophrenia patients. <b>2014</b> , 40, 438-48		139
1477	Diffusion imaging of auditory and auditory-limbic connectivity in tinnitus: preliminary evidence and methodological challenges. <b>2014</b> , 2014, 145943		31
1476	Beyond crossing fibers: bootstrap probabilistic tractography using complex subvoxel fiber geometries. <b>2014</b> , 5, 216		8
1475	Global tractography with embedded anatomical priors for quantitative connectivity analysis. <b>2014</b> , 5, 232		26
1474	Visual Network Asymmetry and Default Mode Network Function in ADHD: An fMRI Study. <b>2014</b> , 5, 81		25
1473	Presurgical Tractography Applications. <b>2014</b> , 531-567		1
1472	Resting-state functional magnetic resonance imaging: review of neurosurgical applications. <b>2014</b> , 74, 453-64; discussion 464-5		75
1471	Microstructural brain tissue damage in metabolic syndrome. <b>2014</b> , 37, 493-500		38
1470	Auditory tracts identified with combined fMRI and diffusion tractography. <b>2014</b> , 84, 562-74		52
1469	Age-related differences in white matter tract microstructure are associated with cognitive performance from childhood to adulthood. <b>2014</b> , 75, 248-56		101
1468	Quantitative neuroimaging in mucopolidosis type IV. <b>2014</b> , 111, 147-51		18
1467	Hidden word learning capacity through orthography in aphasia. <b>2014</b> , 50, 174-91		24
1466	Sex differences in connectivity of the subgenual anterior cingulate cortex. <b>2014</b> , 155, 755-763		55
1465	Left hemisphere fractional anisotropy increase in noise-induced tinnitus: a diffusion tensor imaging (DTI) study of white matter tracts in the brain. <b>2014</b> , 309, 8-16		27
1464	Preterm birth affects the developmental synergy between cortical folding and cortical connectivity observed on multimodal MRI. <b>2014</b> , 89, 23-34		29
1463	The structural and functional connectivity of the posterior cingulate cortex: comparison between deterministic and probabilistic tractography for the investigation of structure-function relationships. <b>2014</b> , 102 Pt 1, 118-27		121

1462	Thalamic diffusion differences related to cognitive function in white matter lesions. <b>2014</b> , 35, 1103-10	5
1461	Road work on memory lane--functional and structural alterations to the learning and memory circuit in adults born very preterm. <b>2014</b> , 102 Pt 1, 152-61	29
1460	Altered intrahemispheric structural connectivity in Gilles de la Tourette syndrome. <b>2014</b> , 4, 174-81	48
1459	Quantitative analysis of the efficacy of gradient table correction on improving the accuracy of fiber tractography. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 227-36	4.4 4
1458	Cortico-subthalamic connection predicts individual differences in value-driven choice bias. <b>2014</b> , 219, 1239-49	14
1457	Fusing DTI and fMRI data: a survey of methods and applications. <b>2014</b> , 102 Pt 1, 184-91	83
1456	Defining critical white matter pathways mediating successful subcallosal cingulate deep brain stimulation for treatment-resistant depression. <b>2014</b> , 76, 963-9	264
1455	An investigation into the functional and structural connectivity of the Default Mode Network. <b>2014</b> , 90, 381-9	36
1454	Cognitive deficits in Friedreich ataxia correlate with micro-structural changes in dentatorubral tract. <b>2014</b> , 13, 187-98	30
1453	White matter abnormalities in adolescents with generalized anxiety disorder: a diffusion tensor imaging study. <b>2014</b> , 14, 41	53
1452	Repeatability analysis of global and local metrics of brain structural networks. <b>2014</b> , 4, 203-20	15
1451	Potential and limitations of diffusion MRI tractography for the study of language. <b>2014</b> , 131, 65-73	41
1450	Connectivity-based functional analysis of dopamine release in the striatum using diffusion-weighted MRI and positron emission tomography. <b>2014</b> , 24, 1165-77	203
1449	Directional diffusion of corticospinal tract supports therapy decisions in idiopathic normal-pressure hydrocephalus. <b>2014</b> , 56, 5-13	31
1448	Investigating Age-related changes in fine motor control across different effectors and the impact of white matter integrity. <b>2014</b> , 96, 81-7	20
1447	Retinal nerve fiber layer thickness and thalamus pathology in multiple sclerosis patients. <b>2014</b> , 21, 1137-e61	15
1446	Structural and functional brain rewiring clarifies preserved interhemispheric transfer in humans born without the corpus callosum. <b>2014</b> , 111, 7843-8	75
1445	Function-structure associations of the brain: evidence from multimodal connectivity and covariance studies. <b>2014</b> , 102 Pt 1, 11-23	103

1444	Fiber connectivity between the striatum and cortical and subcortical regions is associated with temperaments in Chinese males. <b>2014</b> , 89, 226-34	31
1443	Test-retest reliability of structural brain networks from diffusion MRI. <b>2014</b> , 86, 231-43	102
1442	Computational Diffusion MRI and Brain Connectivity. <b>2014</b> ,	1
1441	A computational modelling study of transcranial direct current stimulation montages used in depression. <b>2014</b> , 87, 332-44	109
1440	Improved segmentation of white matter tracts with adaptive Riemannian metrics. <b>2014</b> , 18, 161-75	21
1439	Regional white matter microstructure in very preterm infants: predictors and 7 year outcomes. <b>2014</b> , 52, 60-74	82
1438	Thalamic volume and thalamo-cortical white matter tracts correlate with motor and verbal memory performance. <b>2014</b> , 91, 77-83	26
1437	Whole-brain mapping of structural connectivity in infants reveals altered connection strength associated with growth and preterm birth. <b>2014</b> , 24, 2324-33	71
1436	Sex differences in the structural connectome of the human brain. <b>2014</b> , 111, 823-8	692
1435	Cardiac fiber tracking using particle filtering in MRI. <b>2014</b> ,	
1434	Time-dependent diffusion tensor changes of optic nerve in patients with indirect traumatic optic neuropathy. <b>2014</b> , 55, 855-63	17
1433	Viable and fixed white matter: diffusion magnetic resonance comparisons and contrasts at physiological temperature. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1151-61	4.4 18
1432	The interaction between apparent diffusion coefficients and transverse relaxation rates of human brain metabolites and water studied by diffusion-weighted spectroscopy at 7 T. <b>2014</b> , 27, 495-506	12
1431	Preserved mid-fusiform activation for visual words in a patient with a visual word recognition impairment. <b>2014</b> , 65, 113-24	2
1430	Integration of resting-state fMRI and diffusion-weighted MRI connectivity analyses of the human brain: limitations and improvement. <b>2014</b> , 24, 176-86	11
1429	A mathematical framework for the registration and analysis of multi-fascicle models for population studies of the brain microstructure. <b>2014</b> , 33, 504-17	31
1428	White matter microstructure in transsexuals and controls investigated by diffusion tensor imaging. <b>2014</b> , 34, 15466-75	76
1427	Quantitative comparison of reconstruction methods for intra-voxel fiber recovery from diffusion MRI. <b>2014</b> , 33, 384-99	119

1426	MR Diffusion Tractography. <b>2014</b> , 429-451	7
1425	Local and global fiber tractography in patients with epilepsy. <b>2014</b> , 35, 291-6	15
1424	Subcortical deep gray matter pathology in patients with multiple sclerosis is associated with white matter lesion burden and atrophy but not with cortical atrophy: a diffusion tensor MRI study. <b>2014</b> , 35, 912-9	32
1423	Visualization and Processing of Tensors and Higher Order Descriptors for Multi-Valued Data. <b>2014</b> ,	4
1422	Simulating transcranial direct current stimulation with a detailed anisotropic human head model. <b>2014</b> , 22, 441-52	126
1421	FIBRASCAN: a novel method for 3D white matter tract reconstruction in MR space from cadaveric dissection. <b>2014</b> , 103, 106-118	36
1420	Beyond fractional anisotropy: extraction of bundle-specific structural metrics from crossing fiber models. <b>2014</b> , 100, 176-91	35
1419	Revealing mesoscopic structural universality with diffusion. <b>2014</b> , 111, 5088-93	206
1418	The evolution of primary progressive apraxia of speech. <b>2014</b> , 137, 2783-95	99
1417	Multisite longitudinal reliability of tract-based spatial statistics in diffusion tensor imaging of healthy elderly subjects. <b>2014</b> , 101, 390-403	70
1416	The architecture of the chess player's brain. <b>2014</b> , 62, 152-62	40
1415	Structural connectivity patterns associated with the putative visual word form area and children's reading ability. <b>2014</b> , 1586, 118-29	10
1414	Diffusion tensor imaging for outcome prediction in mild traumatic brain injury: a TRACK-TBI study. <b>2014</b> , 31, 1457-77	157
1413	Advanced diffusion MRI fiber tracking in neurosurgical and neurodegenerative disorders and neuroanatomical studies: A review. <b>2014</b> , 1842, 2286-2297	73
1412	The role of diffusion tensor imaging in brain tumor surgery: a review of the literature. <b>2014</b> , 124, 51-8	73
1411	TBSS and probabilistic tractography reveal white matter connections for attention to object features. <b>2014</b> , 219, 2159-71	12
1410	Nonlinear distortion correction of diffusion MR images improves quantitative DTI measurements in glioblastoma. <b>2014</b> , 116, 551-8	9
1409	Quantitative multi-modal MRI of the Hippocampus and cognitive ability in community-dwelling older subjects. <b>2014</b> , 53, 34-44	21



1408	Advantages of QBI in TBSS analyses. <b>2014</b> , 32, 184-9	7
1407	Visualizing Meyer's loop: A comparison of deterministic and probabilistic tractography. <b>2014</b> , 108, 481-90	40
1406	Quantifying accuracy and precision of diffusion MR tractography of the corticospinal tract in brain tumors. <b>2014</b> , 121, 349-58	67
1405	Imaging functional and structural brain connectomics in attention-deficit/hyperactivity disorder. <b>2014</b> , 50, 1111-23	98
1404	Diffusion Tensor MRI of the Heart ¶ In Vivo Imaging of Myocardial Fiber Architecture. <b>2014</b> , 7, 1	12
1403	Alterations of hippocampal projections in adult macaques with neonatal hippocampal lesions: a Diffusion Tensor Imaging study. <b>2014</b> , 102 Pt 2, 828-37	14
1402	Intra-subject reliability of the high-resolution whole-brain structural connectome. <b>2014</b> , 102 Pt 2, 283-93	25
1401	Structurally-informed Bayesian functional connectivity analysis. <b>2014</b> , 86, 294-305	35
1400	Neurological soft signs predict abnormal cerebellar-thalamic tract development and negative symptoms in adolescents at high risk for psychosis: a longitudinal perspective. <b>2014</b> , 40, 1204-15	90
1399	A crucial role of altered fractional anisotropy in motor problems of very preterm children. <b>2014</b> , 18, 126-33	21
1398	Common genetic variants and gene expression associated with white matter microstructure in the human brain. <b>2014</b> , 97, 252-61	23
1397	A flocking based method for brain tractography. <b>2014</b> , 18, 515-30	12
1396	Diffusion configuration of water molecules in diffusion weighted imaging. <b>2014</b> , 125, 2123-2128	
1395	Anatomical connectivity changes in the bilingual brain. <b>2014</b> , 84, 495-504	79
1394	Apolipoprotein E genotype, gender and age modulate connectivity of the hippocampus in healthy adults. <b>2014</b> , 98, 23-30	63
1393	Probabilistic fiber tracking of the language and motor white matter pathways of the supplementary motor area (SMA) in patients with brain tumors. <b>2014</b> , 41, 342-9	8
1392	Automatic clustering of white matter fibers in brain diffusion MRI with an application to genetics. <b>2014</b> , 100, 75-90	102
1391	Connectivity patterns of pallidal DBS electrodes in focal dystonia: a diffusion tensor tractography study. <b>2014</b> , 84, 435-42	39

1390	Disrupted white matter in language and motor tracts in developmental stuttering. <b>2014</b> , 131, 25-35	74
1389	Diffusion tensor MRI alterations of subcortical deep gray matter in clinically isolated syndrome. <b>2014</b> , 338, 128-34	16
1388	Exploring mechanisms of spontaneous functional connectivity in MEG: how delayed network interactions lead to structured amplitude envelopes of band-pass filtered oscillations. <b>2014</b> , 90, 423-35	175
1387	Plausibility Tracking: a method to evaluate anatomical connectivity and microstructural properties along fiber pathways. <b>2014</b> , 90, 163-78	23
1386	Language-general and -specific white matter microstructural bases for reading. <b>2014</b> , 98, 435-41	21
1385	Anatomy is strategy: skilled reading differences associated with structural connectivity differences in the reading network. <b>2014</b> , 133, 1-13	32
1384	Adaptive smoothing of multi-shell diffusion weighted magnetic resonance data by msPOAS. <b>2014</b> , 95, 90-105	27
1383	Involvement of the right hemisphere in reading comprehension: a DTI study. <b>2014</b> , 1582, 34-44	33
1382	Individual differences in white matter anatomy predict dissociable components of reading skill in adults. <b>2014</b> , 96, 261-75	26
1381	Diffusion tensor imaging comparison of progressive supranuclear palsy and corticobasal syndromes. <b>2014</b> , 20, 493-8	37
1380	Disruption of structure-function coupling in the schizophrenia connectome. <b>2014</b> , 4, 779-87	84
1379	Assessing white matter microstructure of the newborn with multi-shell diffusion MRI and biophysical compartment models. <b>2014</b> , 96, 288-99	123
1378	Structural brain network imaging shows expanding disconnection of the motor system in amyotrophic lateral sclerosis. <b>2014</b> , 35, 1351-61	92
1377	Identification of Nerve Fibers Using Diffusion Tensor Imaging and its Application for Rehabilitation. <b>2014</b> , 29, 841-845	
1376	White matter microstructural organization and gait stability in older adults. <b>2014</b> , 6, 104	52
1375	Reading skill in adult survivors of childhood brain tumor: a theory-based neurocognitive model. <b>2014</b> , 28, 448-58	12
1374	Remote thalamic microstructural abnormalities related to cognitive function in ischemic stroke patients. <b>2014</b> , 28, 984-996	16
1373	Multiple Fibers. <b>2014</b> , 105-123	12

1372	A ranking of diffusion MRI compartment models with in vivo human brain data. <i>Magnetic Resonance in Medicine</i> , <b>2014</b> , 72, 1785-92	4.4	61
1371	The effect of respiratory and cardiac motion in liver diffusion tensor imaging (DTI). <b>2014</b> , 38, 352-9		9
1370	Differential structural and resting state connectivity between insular subdivisions and other pain-related brain regions. <b>2014</b> , 155, 2047-55		96
1369	Resilience and corpus callosum microstructure in adolescence. <b>2015</b> , 45, 2285-94		30
1368	White matter microstructure between the pre-SMA and the cingulum bundle is related to response conflict in healthy subjects. <b>2015</b> , 5, e00375		7
1367	Validation of tractography: Comparison with manganese tracing. <b>2015</b> , 36, 4116-34		92
1366	Diffusion tensor imaging of dolphin brains reveals direct auditory pathway to temporal lobe. <b>2015</b> , 282,		26
1365	Connectivity between the superior colliculus and the amygdala in humans and macaque monkeys: virtual dissection with probabilistic DTI tractography. <b>2015</b> , 114, 1947-62		77
1364	Brain Diffusion Changes in Emerging Psychosis and the Impact of State-Dependent Psychopathology. <b>2015</b> , 23, 71-83		20
1363	12 neuroimaging of mTBIAdvanced Imaging in Mild Traumatic Brain Injury and Concussion. <b>2015</b> ,		
1362	Local but not long-range microstructural differences of the ventral temporal cortex in developmental prosopagnosia. <b>2015</b> , 78, 195-206		52
1361	Tract-based Spatial Statistics and fMRI Analysis in Patients with Small Cell Lung Cancer before Prophylactic Cranial Irradiation. <b>2015</b> , 637, 012040		
1360	Comparison of diffusion tractography and tract-tracing measures of connectivity strength in rhesus macaque connectome. <b>2015</b> , 36, 3064-75		100
1359	Toward tract-specific fractional anisotropy (TSFA) at crossing-fiber regions with clinical diffusion MRI. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 1768-79	4.4	16
1358	Statistical Instability of TBSS Analysis Based on DTI Fitting Algorithm. <b>2015</b> , 25, 883-91		17
1357	A data-driven approach to extract connectivity structures from diffusion tensor imaging data. <b>2015</b> ,		2
1356	Connectivity calculation on diffusion phantom using shortest paths method. <b>2015</b> ,		
1355	Proportional recovery after stroke depends on corticomotor integrity. <b>2015</b> , 78, 848-59		245

1354	White matter abnormalities associated with military PTSD in the context of blast TBI. <b>2015</b> , 36, 1053-64	49
1353	Neurofunctional topography of the human hippocampus. <b>2015</b> , 36, 5018-37	68
1352	Brain structural and functional connectivity in Parkinson's disease with freezing of gait. <b>2015</b> , 36, 5064-78	97
1351	Diffusion imaging in the rat cervical spinal cord. <b>2015</b> ,	8
1350	Accelerated corpus callosum development in prematurity predicts improved outcome. <b>2015</b> , 36, 3733-48	19
1349	Connectivity-based whole brain dual parcellation by group ICA reveals tract structures and decreased connectivity in schizophrenia. <b>2015</b> , 36, 4681-701	21
1348	Functional Mapping of the Human Auditory Cortex: fMRI Investigation of a Patient with Auditory Agnosia from Trauma to the Inferior Colliculus. <b>2015</b> , 28, 160-80	13
1347	The accumbens-frontal tract: Diffusion tensor imaging characterization and developmental change from childhood to adulthood. <b>2015</b> , 36, 4954-63	24
1346	Reduced structural connectivity within a prefrontal-motor-subcortical network in amyotrophic lateral sclerosis. <b>2015</b> , 41, 1342-52	26
1345	Disentangling the relation between left temporoparietal white matter and reading: A spherical deconvolution tractography study. <b>2015</b> , 36, 3273-87	32
1344	A network of amygdala connections predict individual differences in trait anxiety. <b>2015</b> , 36, 4819-30	44
1343	Structural and functional correlates of behavioral pattern separation in the hippocampus and medial temporal lobe. <b>2015</b> , 25, 524-33	48
1342	Probing signal phase in direct visualization of short transverse relaxation time component (ViSTA). <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 499-505	4.4 12
1341	Age-associated alterations in corpus callosum white matter integrity in bipolar disorder assessed using probabilistic tractography. <b>2015</b> , 17, 381-91	18
1340	Fornix White Matter is Correlated with Resting-State Functional Connectivity of the Thalamus and Hippocampus in Healthy Aging but Not in Mild Cognitive Impairment - A Preliminary Study. <b>2015</b> , 7, 10	11
1339	White matter microstructure contributes to age-related declines in task-induced deactivation of the default mode network. <b>2015</b> , 7, 194	17
1338	Unraveling the multiscale structural organization and connectivity of the human brain: the role of diffusion MRI. <b>2015</b> , 9, 77	22
1337	Validation of In utero Tractography of Human Fetal Commissural and Internal Capsule Fibers with Histological Structure Tensor Analysis. <b>2015</b> , 9, 164	26

1336	Evidence from a rare case study for Hebbian-like changes in structural connectivity induced by long-term deep brain stimulation. <b>2015</b> , 9, 167	14
1335	Test-retest reliability of white matter structural brain networks: a multiband diffusion MRI study. <b>2015</b> , 9, 59	17
1334	High-resolution diffusion kurtosis imaging at 3T enabled by advanced post-processing. <b>2014</b> , 8, 427	16
1333	Sex differences in white matter integrity in youths with attention-deficit/hyperactivity disorder: a pilot study. <b>2015</b> , 9, 232	12
1332	Probabilistic clustering of the human connectome identifies communities and hubs. <b>2015</b> , 10, e0117179	22
1331	Tractography of the spider monkey ( <i>Ateles geoffroyi</i> ) corpus callosum using diffusion tensor magnetic resonance imaging. <b>2015</b> , 10, e0117367	3
1330	Evaluating the accuracy of diffusion MRI models in white matter. <b>2015</b> , 10, e0123272	42
1329	Altered activation of innate immunity associates with white matter volume and diffusion in first-episode psychosis. <b>2015</b> , 10, e0125112	22
1328	Effects of a Balanced Translocation between Chromosomes 1 and 11 Disrupting the DISC1 Locus on White Matter Integrity. <b>2015</b> , 10, e0130900	19
1327	Brain Abnormalities in Congenital Fibrosis of the Extraocular Muscles Type 1: A Multimodal MRI Imaging Study. <b>2015</b> , 10, e0133473	3
1326	Reproducibility of the Structural Brain Connectome Derived from Diffusion Tensor Imaging. <b>2015</b> , 10, e0135247	59
1325	Hemispheric Asymmetry of Human Brain Anatomical Network Revealed by Diffusion Tensor Tractography. <b>2015</b> , 2015, 908917	17
1324	Shared white-matter dysconnectivity in schizophrenia and bipolar disorder with psychosis. <b>2015</b> , 45, 759-70	62
1323	Cortical activity predicts which older adults recognize speech in noise and when. <b>2015</b> , 35, 3929-37	61
1322	White Matter Connectivity of the Thalamus Delineates the Functional Architecture of Competing Thalamocortical Systems. <b>2015</b> , 25, 4477-89	41
1321	A segregated neural pathway for prefrontal top-down control of tactile discrimination. <b>2015</b> , 25, 161-6	9
1320	From Local Q-Ball Estimation to Fibre Crossing Tractography. <b>2015</b> , 455-473	2
1319	Evaluation of machine learning algorithms for treatment outcome prediction in patients with epilepsy based on structural connectome data. <b>2015</b> , 118, 219-30	95

1318	Amygdala subnuclei connectivity in response to violence reveals unique influences of individual differences in psychopathic traits in a nonforensic sample. <b>2015</b> , 36, 1417-28		46
1317	Callosal damage and cognitive deficits in chronic carbon monoxide intoxication: A diffusion tensor imaging study. <b>2015</b> , 355, 101-7		11
1316	Connectivity-based segmentation of the periaqueductal gray matter in human with brainstem optimized diffusion MRI. <b>2015</b> , 36, 3459-71		49
1315	Effects of white matter microstructure on phase and susceptibility maps. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1258-69	4.4	87
1314	Individual Differences in Premotor Brain Systems Underlie Behavioral Apathy. <b>2016</b> , 26, 807-819		78
1313	Fetal Cerebral Magnetic Resonance Imaging Beyond Morphology. <b>2015</b> , 36, 465-75		16
1312	Impaired Functional Connectivity Unmasked by Simple Repetitive Motor Task in Early Relapsing-Remitting Multiple Sclerosis. <b>2015</b> , 29, 557-65		7
1311	Scan time reduction for readout-segmented EPI using simultaneous multislice acceleration: Diffusion-weighted imaging at 3 and 7 Tesla. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 74, 136-149	4.4	46
1310	Does diffusion MRI tell us anything about the white matter? An overview of methods and pitfalls. <b>2015</b> , 161, 133-41		70
1309	COMMIT: Convex optimization modeling for microstructure informed tractography. <b>2015</b> , 34, 246-57		138
1308	A potential biomarker in sports-related concussion: brain functional connectivity alteration of the default-mode network measured with longitudinal resting-state fMRI over thirty days. <b>2015</b> , 32, 327-41		91
1307	Neural correlates of visual motion processing without awareness in patients with striate cortex and pulvinar lesions. <b>2015</b> , 36, 1585-94		20
1306	Virtual dissection and comparative connectivity of the superior longitudinal fasciculus in chimpanzees and humans. <b>2015</b> , 108, 124-37		112
1305	Localization of specific language pathways using diffusion-weighted imaging tractography for presurgical planning of children with intractable epilepsy. <b>2015</b> , 56, 49-57		23
1304	White matter integrity and its association with affective and interpersonal symptoms in borderline personality disorder. <b>2015</b> , 7, 476-81		25
1303	Increased free water in the substantia nigra of Parkinson's disease: a single-site and multi-site study. <b>2015</b> , 36, 1097-104		86
1302	47. Automatic classification of EEG graphoelements (workshop). <b>2015</b> , 126, e46-e47		
1301	Neural Correlates of Aggression in Medication-Naive Children with ADHD: Multivariate Analysis of Morphometry and Tractography. <b>2015</b> , 40, 1717-25		52

1300	Fiber estimation and tractography in diffusion MRI: development of simulated brain images and comparison of multi-fiber analysis methods at clinical b-values. <b>2015</b> , 109, 341-56	67
1299	Tractography from HARDI using an intrinsic unscented Kalman filter. <b>2015</b> , 34, 298-305	3
1298	One diffusion acquisition and different white matter models: how does microstructure change in human early development based on WMTI and NODDI?. <b>2015</b> , 107, 242-256	136
1297	46. Could it be possible to distinguish bending and crossing fibers in diffusion MRI data?. <b>2015</b> , 126, e46	
1296	Informed constrained spherical deconvolution (iCSD). <b>2015</b> , 24, 269-281	27
1295	45. A novel cognitive fMRI task to assess brain mechanisms underlying visual processing and attention. <b>2015</b> , 126, e45-e46	
1294	Clinical and neuroimaging biomarkers of amyloid-negative logopenic primary progressive aphasia. <b>2015</b> , 142, 45-53	38
1293	Determination of the posterior boundary of Wernicke's area based on multimodal connectivity profiles. <b>2015</b> , 36, 1908-24	45
1292	Evidence from structural and diffusion tensor imaging for frontotemporal deficits in psychometric schizotypy. <b>2015</b> , 41, 104-14	39
1291	White Matter Tracts Connected to the Medial Temporal Lobe Support the Development of Mnemonic Control. <b>2015</b> , 25, 2574-83	30
1290	EEG functional connectivity is partially predicted by underlying white matter connectivity. <b>2015</b> , 108, 23-33	59
1289	POAS4SPM: a toolbox for SPM to denoise diffusion MRI data. <b>2015</b> , 13, 19-29	9
1288	A Connectome Computation System for discovery science of brain. <b>2015</b> , 60, 86-95	82
1287	Limbic Tract Integrity Contributes to Pattern Separation Performance Across the Lifespan. <b>2015</b> , 25, 2988-99	55
1286	Deafferentation in thalamic and pontine areas in severe traumatic brain injury. <b>2015</b> , 42, 202-11	13
1285	Novel fingerprinting method characterises the necessary and sufficient structural connectivity from deep brain stimulation electrodes for a successful outcome. <b>2015</b> , 17, 015001	20
1284	Neuroanatomical characteristics associated with response to dorsal anterior cingulotomy for obsessive-compulsive disorder. <b>2015</b> , 72, 127-35	36
1283	Contralateral cerebello-thalamo-cortical pathways with prominent involvement of associative areas in humans in vivo. <b>2015</b> , 220, 3369-84	99

1282	Convergence and divergence across construction methods for human brain white matter networks: an assessment based on individual differences. <b>2015</b> , 36, 1995-2013	37
1281	Clinical Functional MRI. <b>2015</b> ,	4
1280	White matter correlates of cognitive impairment in essential tremor. <b>2015</b> , 36, 448-53	28
1279	Gray matter axonal connectivity maps. <b>2015</b> , 6, 35	8
1278	Brain volumetry and self-regulation of brain activity relevant for neurofeedback. <b>2015</b> , 110, 126-33	32
1277	White matter integrity and cognitive performance in school-age children: A population-based neuroimaging study. <b>2015</b> , 119, 119-28	50
1276	Specific effect of the fragile-X mental retardation-1 gene (FMR1) on white matter microstructure. <b>2015</b> , 207, 143-8	13
1275	N-acetyl-aspartate levels correlate with intra-axonal compartment parameters from diffusion MRI. <b>2015</b> , 118, 334-43	25
1274	Disconnection of network hubs and cognitive impairment after traumatic brain injury. <b>2015</b> , 138, 1696-709	113
1273	Neurite orientation dispersion and density imaging of the healthy cervical spinal cord in vivo. <b>2015</b> , 111, 590-601	80
1272	High-field magnetic resonance imaging of the human temporal lobe. <b>2015</b> , 9, 58-68	15
1271	Fourier Tract Sampling (FouTS): A framework for improved inference of white matter tracts from diffusion MRI by explicitly modelling tract volume. <b>2015</b> , 120, 412-27	5
1270	Individual Differences in Temporal Summation of Pain Reflect Pronociceptive and Antinociceptive Brain Structure and Function. <b>2015</b> , 35, 9689-700	46
1269	The Anatomical and Functional Organization of the Human Visual Pulvinar. <b>2015</b> , 35, 9848-71	91
1268	Diagnostic, Prognostic, and Advanced Imaging in Severe Traumatic Brain Injury. <b>2015</b> , 1, 133-146	2
1267	Cognitive Flexibility through Metastable Neural Dynamics Is Disrupted by Damage to the Structural Connectome. <b>2015</b> , 35, 9050-63	76
1266	Structural Connectivity Networks of Transgender People. <b>2015</b> , 25, 3527-34	59
1265	Tract-specific white matter degeneration in aging: the Rotterdam Study. <b>2015</b> , 11, 321-30	127



1264	Real-Time Strategy Video Game Experience and Visual Perceptual Learning. <b>2015</b> , 35, 10485-92	31
1263	A multimodal MRI approach to identify and characterize microstructural brain changes in neuropsychiatric systemic lupus erythematosus. <b>2015</b> , 8, 337-44	35
1262	Interpolation of orientation distribution functions in diffusion weighted imaging using multi-tensor model. <b>2015</b> , 253, 28-37	3
1261	Multivariate pattern analysis reveals anatomical connectivity differences between the left and right mesial temporal lobe epilepsy. <b>2015</b> , 7, 555-61	17
1260	Q-Space Modeling in Diffusion-Weighted MRI. <b>2015</b> , 257-263	1
1259	Fiber Tracking with DWI. <b>2015</b> , 265-269	
1258	Differential adaptation of descending motor tracts in musicians. <b>2015</b> , 25, 1490-8	46
1257	Microstructural changes in white matter associated with freezing of gait in Parkinson's disease. <b>2015</b> , 30, 567-76	72
1256	White matter microstructure and developmental improvement of hyperactive/impulsive symptoms in attention-deficit/hyperactivity disorder. <b>2015</b> , 56, 1289-97	32
1255	Comparison of functional thalamic segmentation from seed-based analysis and ICA. <b>2015</b> , 114, 448-65	29
1254	Connectivity-based parcellation of the thalamus in multiple sclerosis and its implications for cognitive impairment: A multicenter study. <b>2015</b> , 36, 2809-25	55
1253	The organisation of the elderly connectome. <b>2015</b> , 114, 414-26	47
1252	Lower Blood Pressure and Gray Matter Integrity Loss in Older Persons. <b>2015</b> , 17, 630-7	10
1251	Tractography of Meyer's loop for temporal lobe resection—validation by prediction of postoperative visual field outcome?????. <b>2015</b> , 157, 947-56; discussion 956	10
1250	Are Autistic Traits in the General Population Related to Global and Regional Brain Differences?. <b>2015</b> , 45, 2779-91	9
1249	Right is not always wrong: DTI and fMRI evidence for the reliance of reading comprehension on language-comprehension networks in the right hemisphere. <b>2015</b> , 9, 19-31	26
1248	Visualization and segmentation of reciprocal cerebrocerebellar pathways in the healthy and injured brain. <b>2015</b> , 36, 2615-28	17
1247	Assessment of a method to determine deep brain stimulation targets using deterministic tractography in a navigation system. <b>2015</b> , 38, 739-50; discussion 751	28

1246	Disrupted developmental organization of the structural connectome in fetuses with corpus callosum agenesis. <b>2015</b> , 111, 277-88	50
1245	Structural connectivity of the salience-executive loop in schizophrenia. <b>2015</b> , 265, 163-6	14
1244	Diffusion Imaging with MR Tractography for Brain Tumor Surgery. <b>2015</b> , 179-228	2
1243	Chronic ischemia alters brain microstructural integrity and cognitive performance in adult moyamoya disease. <b>2015</b> , 46, 354-60	53
1242	Personality and neuroimaging measures differentiate PTSD from mTBI in veterans. <b>2015</b> , 9, 472-83	14
1241	White Matter Integrity Dissociates Verbal Memory and Auditory Attention Span in Emerging Adults with Congenital Heart Disease. <b>2015</b> , 21, 22-33	25
1240	Appraisal of brain connectivity in radiologically isolated syndrome by modeling imaging measures. <b>2015</b> , 35, 550-8	30
1239	Handbook of Biomedical Imaging. <b>2015</b> ,	5
1238	Processing speed impairment in schizophrenia is mediated by white matter integrity. <b>2015</b> , 45, 109-20	54
1237	Heritability of fractional anisotropy in human white matter: a comparison of Human Connectome Project and ENIGMA-DTI data. <b>2015</b> , 111, 300-11	159
1236	Three distinct fiber pathways of the bed nucleus of the stria terminalis to the amygdala and prefrontal cortex. <b>2015</b> , 66, 60-8	58
1235	Structural and functional dysconnectivity of the fronto-thalamic system in schizophrenia: a DCM-DTI study. <b>2015</b> , 66, 35-45	61
1234	Longitudinal alterations to brain function, structure, and cognitive performance in healthy older adults: A fMRI-DTI study. <b>2015</b> , 71, 225-35	35
1233	White matter integrity in dementia with Lewy bodies: a voxel-based analysis of diffusion tensor imaging. <b>2015</b> , 36, 2010-7	29
1232	Mapping the "Depression Switch" During Intraoperative Testing of Subcallosal Cingulate Deep Brain Stimulation. <b>2015</b> , 72, 1252-60	83
1231	A Neural Basis for Developmental Topographic Disorientation. <b>2015</b> , 35, 12954-69	28
1230	Human Frontal-Subcortical Circuit and Asymmetric Belief Updating. <b>2015</b> , 35, 14077-85	44
1229	Functional hemispherectomy: postoperative motor state and correlation to preoperative DTI. <b>2015</b> , 57, 1093-102	12

1228	Multimodal neuroimaging computing: the workflows, methods, and platforms. <b>2015</b> , 2, 181-195	14
1227	Asymmetric Interhemispheric Transfer in the Auditory Network: Evidence from TMS, Resting-State fMRI, and Diffusion Imaging. <b>2015</b> , 35, 14602-11	59
1226	Global tractography of multi-shell diffusion-weighted imaging data using a multi-tissue model. <b>2015</b> , 123, 89-101	94
1225	Deep brain stimulation for essential tremor: targeting the dentato-rubro-thalamic tract?. <b>2015</b> , 18, 105-12	71
1224	Fiber Orientation and Compartment Parameter Estimation From Multi-Shell Diffusion Imaging. <b>2015</b> , 34, 2320-32	38
1223	Non-parametric representation and prediction of single- and multi-shell diffusion-weighted MRI data using Gaussian processes. <b>2015</b> , 122, 166-76	144
1222	Diffusion MRI and its Role in Neuropsychology. <b>2015</b> , 25, 250-71	20
1221	Spatially constrained incoherent motion method improves diffusion-weighted MRI signal decay analysis in the liver and spleen. <b>2015</b> , 42, 1895-903	17
1220	Double-letter processing in surface dyslexia and dysgraphia following a left temporal lesion: A multimodal neuroimaging study. <b>2015</b> , 73, 112-30	13
1219	Individualization of deep brain stimulation targets for movement disorders. <b>2015</b> , 157, 1795-7	
1218	Corticospinal tract anatomy and functional connectivity of primary motor cortex in autism. <b>2015</b> , 54, 859-67	34
1217	Propagation of positional error in 3D GIS: estimation of the solar irradiation of building roofs. <b>2015</b> , 29, 2269-2294	35
1216	Automatic segmentation of the lateral geniculate nucleus: Application to control and glaucoma patients. <b>2015</b> , 255, 104-14	10
1215	A Diffusion MRI Tractography Connectome of the Mouse Brain and Comparison with Neuronal Tracer Data. <b>2015</b> , 25, 4628-37	132
1214	Sex beyond the genitalia: The human brain mosaic. <b>2015</b> , 112, 15468-73	335
1213	White matter compartment models for in vivo diffusion MRI at 300mT/m. <b>2015</b> , 118, 468-83	47
1212	L2-Proficiency-Dependent Laterality Shift in Structural Connectivity of Brain Language Pathways. <b>2015</b> , 5, 349-61	18
1211	Postshunt lateral ventricular volume, white matter integrity, and intellectual outcomes in spina bifida and hydrocephalus. <b>2015</b> , 15, 410-9	14

1210	Accelerated Microstructure Imaging via Convex Optimization (AMICO) from diffusion MRI data. <b>2015</b> , 105, 32-44	225
1209	Fear-potentiated startle during extinction is associated with white matter microstructure and functional connectivity. <b>2015</b> , 64, 249-59	38
1208	Role of white-matter pathways in coordinating alpha oscillations in resting visual cortex. <b>2015</b> , 106, 328-39	29
1207	Multimodal frontostriatal connectivity underlies individual differences in self-esteem. <b>2015</b> , 10, 364-70	52
1206	Enhanced characterization of the zebrafish brain as revealed by super-resolution track-density imaging. <b>2015</b> , 220, 457-68	15
1205	DISC1 Ser704Cys impacts thalamic-prefrontal connectivity. <b>2015</b> , 220, 91-100	19
1204	Individual differences in regional prefrontal gray matter morphometry and fractional anisotropy are associated with different constructs of executive function. <b>2015</b> , 220, 1291-306	50
1203	Acceleration of high angular and spatial resolution diffusion imaging using compressed sensing with multichannel spiral data. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 126-38	4-4 31
1202	An active learning approach for stroke lesion segmentation on multimodal MRI data. <b>2015</b> , 150, 26-36	21
1201	Probing region-specific microstructure of human cortical areas using high angular and spatial resolution diffusion MRI. <b>2015</b> , 105, 198-207	50
1200	Direct diffusion-based parcellation of the human thalamus. <b>2015</b> , 220, 1619-35	32
1199	Acquisition of Paleolithic toolmaking abilities involves structural remodeling to inferior frontoparietal regions. <b>2015</b> , 220, 2315-31	70
1198	Extrastriate projections in human optic radiation revealed by fMRI-informed tractography. <b>2015</b> , 220, 2519-32	15
1197	Critical Review and Comparison of Axonal Structures in MRI/DTI and Histology. <b>2016</b> , 337-347	1
1196	APPLICATION OF A NOVEL QUANTITATIVE TRACTOGRAPHY-BASED ANALYSIS OF DIFFUSION TENSOR IMAGING TO EXAMINE FIBER BUNDLE LENGTH IN HUMAN CEREBRAL WHITE MATTER. <b>2016</b> , 18, 21-29	2
1195	Serial Diffusion Tensor Imaging of the Optic Radiations after Acute Optic Neuritis. <b>2016</b> , 2016, 2764538	13
1194	Differences in Cortical Representation and Structural Connectivity of Hands and Feet between Professional Handball Players and Ballet Dancers. <b>2016</b> , 2016, 6817397	21
1193	Multilevel Deficiency of White Matter Connectivity Networks in Alzheimer's Disease: A Diffusion MRI Study with DTI and HARDI Models. <b>2016</b> , 2016, 2947136	19

1192	Simultaneous Assessment of White Matter Changes in Microstructure and Connectedness in the Blind Brain. <b>2016</b> , 2016, 6029241	24
1191	9 Diffusion Tensor Imaging. <b>2016</b> ,	
1190	Hippocampal Pathway Plasticity Is Associated with the Ability to Form Novel Memories in Older Adults. <b>2016</b> , 8, 61	16
1189	Strength of Structural and Functional Frontostriatal Connectivity Predicts Self-Control in the Healthy Elderly. <b>2016</b> , 8, 307	10
1188	Feasibility of Diffusion Tractography for the Reconstruction of Intra-Thalamic and Cerebello-Thalamic Targets for Functional Neurosurgery: A Multi-Vendor Pilot Study in Four Subjects. <b>2016</b> , 10, 76	21
1187	Sex Differences in Fiber Connection between the Striatum and Subcortical and Cortical Regions. <b>2016</b> , 10, 100	7
1186	Chronic Post-Concussion Neurocognitive Deficits. I. Relationship with White Matter Integrity. <b>2016</b> , 10, 35	11
1185	Connectomic and Surface-Based Morphometric Correlates of Acute Mild Traumatic Brain Injury. <b>2016</b> , 10, 127	22
1184	Studying Autism Spectrum Disorder with Structural and Diffusion Magnetic Resonance Imaging: A Survey. <b>2016</b> , 10, 211	63
1183	Embarrassingly Parallel Acceleration of Global Tractography via Dynamic Domain Partitioning. <b>2016</b> , 10, 25	3
1182	A Symmetry-Based Method to Infer Structural Brain Networks from Probabilistic Tractography Data. <b>2016</b> , 10, 46	3
1181	Structural Brain Network Characteristics Can Differentiate CIS from Early RRMS. <b>2016</b> , 10, 14	47
1180	Microstructure Informed Tractography: Pitfalls and Open Challenges. <b>2016</b> , 10, 247	80
1179	Diffusion Capillary Phantom vs. Human Data: Outcomes for Reconstruction Methods Depend on Evaluation Medium. <b>2016</b> , 10, 407	6
1178	Converting Multi-Shell and Diffusion Spectrum Imaging to High Angular Resolution Diffusion Imaging. <b>2016</b> , 10, 418	7
1177	The Inverse Relationship between the Microstructural Variability of Amygdala-Prefrontal Pathways and Trait Anxiety Is Moderated by Sex. <b>2016</b> , 10, 93	17
1176	Ensemble Tractography. <b>2016</b> , 12, e1004692	72
1175	Effects of a Polymorphism of the Neuronal Amino Acid Transporter SLC6A15 Gene on Structural Integrity of White Matter Tracts in Major Depressive Disorder. <b>2016</b> , 11, e0164301	32

1174	Reliable Dual Tensor Model Estimation in Single and Crossing Fibers Based on Jeffreys Prior. <b>2016</b> , 11, e0164336	3
1173	Neuronal network architecture and temporal lobe epilepsy: A connectome-based and machine learning study. <b>2016</b> , 455-476	
1172	A Neural Basis for the Acquired Capability for Suicide. <b>2016</b> , 7, 125	32
1171	Visualization of Cranial Nerves Using High-Definition Fiber Tractography. <b>2016</b> , 79, 146-65	53
1170	Relationship between genotype and arcuate fasciculus morphology in six young children with global developmental delay: Preliminary DTI study. <b>2016</b> , 44, 1504-1512	5
1169	Structural connectivity of the human anterior temporal lobe: A diffusion magnetic resonance imaging study. <b>2016</b> , 37, 2210-22	34
1168	Short-term white matter alterations in Alzheimer's disease characterized by diffusion tensor imaging. <b>2016</b> , 43, 627-34	7
1167	Connectome sensitivity or specificity: which is more important?. <b>2016</b> , 142, 407-420	184
1166	Heritability of complex white matter diffusion traits assessed in a population isolate. <b>2016</b> , 37, 525-35	17
1165	Aging-Resilient Associations between the Arcuate Fasciculus and Vocabulary Knowledge: Microstructure or Morphology?. <b>2016</b> , 36, 7210-22	18
1164	STRUCTURAL AND FUNCTIONAL CONNECTIVITY IN POSTTRAUMATIC STRESS DISORDER: ASSOCIATIONS WITH FKBP5. <b>2016</b> , 33, 300-7	47
1163	Abnormal reward circuitry in anorexia nervosa: A longitudinal, multimodal MRI study. <b>2016</b> , 37, 3835-3846	57
1162	On the averaging of cardiac diffusion tensor MRI data: the effect of distance function selection. <b>2016</b> , 61, 7765-7786	2
1161	Diverging Progression of Network Disruption and Atrophy in Alzheimer's Disease and Semantic Dementia. <b>2017</b> , 55, 981-993	7
1160	Consensus between networks based on streamline fiber tracking and probabilistic fiber tractography. <b>2016</b> ,	
1159	FIBER DIRECTION ESTIMATION, SMOOTHING AND TRACKING IN DIFFUSION MRI. <b>2016</b> , 10, 1137-1156	5
1158	Increased functional connectivity common to symptomatic amyotrophic lateral sclerosis and those at genetic risk. <b>2016</b> , 87, 580-8	62
1157	Structural connectivity of temporal lobe structures detects temporal lobe epilepsy. <b>2016</b> ,	

1156	Diffusion Tensor Imaging Predictors of Episodic Memory Decline in Healthy Elders at Genetic Risk for Alzheimer's Disease. <b>2016</b> , 22, 1005-1015	16
1155	Ageing and brain white matter structure in 3,513 UK Biobank participants. <b>2016</b> , 7, 13629	207
1154	Microstructure Imaging of Crossing (MIX) White Matter Fibers from diffusion MRI. <b>2016</b> , 6, 38927	34
1153	Effects of vocal training in a musicophile with congenital amusia. <b>2016</b> , 22, 526-537	13
1152	The Disconnection Hypothesis in Alzheimer's Disease Studied Through Multimodal Magnetic Resonance Imaging: Structural, Perfusion, and Diffusion Tensor Imaging. <b>2016</b> , 50, 1051-64	13
1151	MAPL: Tissue microstructure estimation using Laplacian-regularized MAP-MRI and its application to HCP data. <b>2016</b> , 134, 365-385	70
1150	An exploration of diffusion tensor eigenvector variability within human calf muscles. <b>2016</b> , 43, 190-202	7
1149	Integrated analysis of gray and white matter alterations in attention-deficit/hyperactivity disorder. <b>2016</b> , 11, 357-367	26
1148	Associations between mobility, cognition and callosal integrity in people with parkinsonism. <b>2016</b> , 11, 415-422	18
1147	Reduced white matter integrity in amateur boxers. <b>2016</b> , 58, 911-20	13
1146	Exploring the role of the posterior middle temporal gyrus in semantic cognition: Integration of anterior temporal lobe with executive processes. <b>2016</b> , 137, 165-177	179
1145	Dance and music training have different effects on white matter diffusivity in sensorimotor pathways. <b>2016</b> , 135, 273-86	42
1144	Increased fractional anisotropy in cerebellum in obsessive-compulsive disorder. <b>2016</b> , 28, 141-8	11
1143	The influence of molecular order and microstructure on the R2* and the magnetic susceptibility tensor. <b>2016</b> , 34, 682-9	4
1142	Relationship of white and gray matter abnormalities to clinical and genetic features in myotonic dystrophy type 1. <b>2016</b> , 11, 678-685	39
1141	Brain aerobic glycolysis and motor adaptation learning. <b>2016</b> , 113, E3782-91	45
1140	Determining Cardiac Fiber Orientation Using FSL and Registered Ultrasound/DTI volumes. <b>2016</b> , 9790,	2
1139	Medial temporal lobe viscoelasticity and relational memory performance. <b>2016</b> , 132, 534-541	54

1138	What lies beneath? Diffusion EAP-based study of brain tissue microstructure. <b>2016</b> , 32, 145-56	18
1137	Fusion in diffusion MRI for improved fibre orientation estimation: An application to the 3T and 7T data of the Human Connectome Project. <b>2016</b> , 134, 396-409	67
1136	Diffusion tensor imaging of white and grey matter within the spinal cord of normal Beagle dogs: Sub-regional differences of the various diffusion parameters. <b>2016</b> , 215, 110-7	10
1135	High spatial resolution diffusion weighted imaging on clinical 3T MRI scanners using multislab spiral acquisitions. <b>2016</b> , 3, 023501	9
1134	Neurobiology of knowledge and misperception of lyrics. <b>2016</b> , 134, 12-21	1
1133	Clarifying Human White Matter. <b>2016</b> , 39, 103-28	72
1132	Abnormal frontostriatal connectivity in adolescent-onset schizophrenia and its relationship to cognitive functioning. <b>2016</b> , 35, 32-8	24
1131	Functional connectivity of the left and right hippocampi: Evidence for functional lateralization along the long-axis using meta-analytic approaches and ultra-high field functional neuroimaging. <b>2016</b> , 135, 64-78	34
1130	Age and Sex Effects on White Matter Tracts in Psychosis from Adolescence through Middle Adulthood. <b>2016</b> , 41, 2473-80	8
1129	Corticolimbic anatomical characteristics predetermine risk for chronic pain. <b>2016</b> , 139, 1958-70	183
1128	Mapping Brain Anatomical Connectivity Using Diffusion Magnetic Resonance Imaging: Structural connectivity of the human brain. <b>2016</b> , 33, 36-51	8
1127	Concurrent white and gray matter degeneration of disease-specific networks in early-stage Alzheimer's disease and behavioral variant frontotemporal dementia. <b>2016</b> , 43, 119-28	15
1126	Bi-directional changes in fractional anisotropy after experiment TBI: Disorganization and reorganization?. <b>2016</b> , 133, 129-143	44
1125	Correlation of Fractional Anisotropy With Motor Recovery in Patients With Stroke After Postacute Rehabilitation. <b>2016</b> , 97, 1487-1495	21
1124	Impaired Frontal-Limbic White Matter Maturation in Children at Risk for Major Depression. <b>2017</b> , 27, 4478-4491	9
1123	White matter integrity as a marker for cognitive plasticity in aging. <b>2016</b> , 47, 74-82	43
1122	Comparison of cerebral blood flow and structural penumbras in relation to white matter hyperintensities: A multi-modal magnetic resonance imaging study. <b>2016</b> , 36, 1528-36	41
1121	References. <b>2016</b> , 433-472	



1120	Low SNR in Diffusion MRI Models. <b>2016</b> , 111, 1480-1490	4
1119	Multi-compartment microscopic diffusion imaging. <b>2016</b> , 139, 346-359	186
1118	Changing head model extent affects finite element predictions of transcranial direct current stimulation distributions. <b>2016</b> , 13, 066006	17
1117	White matter disruptions in male cocaine polysubstance users: Associations with severity of drug use and duration of abstinence. <b>2016</b> , 168, 247-254	13
1116	Structural Network Disorganization in Subjects at Clinical High Risk for Psychosis. <b>2017</b> , 43, 583-591	31
1115	Neuroeconomics. <b>2016</b> ,	5
1114	Diffusion Tensor Imaging (DTI) and Tractography. <b>2016</b> , 411-442	2
1113	Brain resting state functional magnetic resonance imaging in patients with takotsubo cardiomyopathy an inseparable pair of brain and heart. <b>2016</b> , 224, 376-381	8
1112	Natural variation in sensory-motor white matter organization influences manifestations of Huntington's disease. <b>2016</b> , 37, 4615-4628	15
1111	Nodes and Edges. <b>2016</b> , 37-88	
1110	Structural brain abnormalities in a single gene disorder associated with epilepsy, language impairment and intellectual disability. <b>2016</b> , 12, 655-665	16
1109	Early changes of brain connectivity in primary open angle glaucoma. <b>2016</b> , 37, 4581-4596	46
1108	Illusory conjunctions in visual short-term memory: Individual differences in corpus callosum connectivity and splitting attention between the two hemifields. <b>2016</b> , 53, 1639-1650	5
1107	Structural connectivity analyses in motor recovery research after stroke. <b>2016</b> , 3, 233-44	52
1106	White matter alterations of the corticospinal tract in adults born very preterm and/or with very low birth weight. <b>2016</b> , 37, 289-99	21
1105	Testosterone affects language areas of the adult human brain. <b>2016</b> , 37, 1738-48	27
1104	Volumetric and fiber-tracing MRI methods for gray and white matter. <b>2016</b> , 135, 39-60	6
1103	The brain-derived neurotrophic factor Val66Met polymorphism and degeneration of the corticospinal tract after stroke: a diffusion tensor imaging study. <b>2016</b> , 23, 76-84	19

1102	Reproducibility of the Structural Connectome Reconstruction across Diffusion Methods. <b>2016</b> , 26, 46-57	12
1101	NODDI reproducibility and variability with magnetic field strength: A comparison between 1.5 T and 3 T. <b>2016</b> , 37, 4550-4565	26
1100	High-resolution diffusion MRI at 7T using a three-dimensional multi-slab acquisition. <b>2016</b> , 143, 1-14	41
1099	Diffusion Tensor Imaging-Based Thalamic Segmentation in Deep Brain Stimulation for Chronic Pain Conditions. <b>2016</b> , 94, 225-234	13
1098	Age-related white-matter correlates of motor sequence learning and consolidation. <b>2016</b> , 48, 13-22	15
1097	Structural parcellation of the thalamus using shortest-path tractography. <b>2016</b> ,	0
1096	Characterization of Structural Connectivity of the Default Mode Network in Dogs using Diffusion Tensor Imaging. <b>2016</b> , 6, 36851	12
1095	Evidence of Brain Inflammation in Patients with Human T-Lymphotropic Virus Type 1-Associated Myelopathy (HAM): A Pilot, Multimodal Imaging Study Using 11C-PBR28 PET, MR T1-Weighted, and Diffusion-Weighted Imaging. <b>2016</b> , 57, 1905-1912	14
1094	Localizing Sources of Brain Disease Progression with Network Diffusion Model. <b>2016</b> , 10, 1214-1225	21
1093	Diffusion tensor imaging: A biomarker of outcome in Krabbe's disease. <b>2016</b> , 94, 1108-15	13
1092	Grit Is Associated with Structure of Nucleus Accumbens and Gains in Cognitive Training. <b>2016</b> , 28, 1688-1699	16
1091	Incorporating outlier detection and replacement into a non-parametric framework for movement and distortion correction of diffusion MR images. <b>2016</b> , 141, 556-572	288
1090	Frontal and Temporal Structural Connectivity Is Associated with Social Communication Impairment Following Traumatic Brain Injury. <b>2016</b> , 22, 705-16	16
1089	Two-Dimensional Correlation of Isotropic and Directional Diffusion Using NMR. <b>2016</b> , 116, 087601	50
1088	Relationship between neuropsychological impairment and grey and white matter changes in adult-onset myotonic dystrophy type 1. <b>2016</b> , 12, 190-7	37
1087	Swarm tracking approach for global probabilistic tractography with spherical deconvolution. <b>2016</b> ,	
1086	Assessment of passive muscle elongation using Diffusion Tensor MRI: Correlation between fiber length and diffusion coefficients. <b>2016</b> , 29, 1813-1824	13
1085	PTSD confounds detection of compromised cerebral white matter integrity in military veterans reporting a history of mild traumatic brain injury. <b>2016</b> , 30, 1491-1500	13

1084	Ipsilesional anodal tDCS enhances the functional benefits of rehabilitation in patients after stroke. <b>2016</b> , 8, 330re1		124
1083	Track density imaging of hypertrophic olivary degeneration from multiple sclerosis plaque. <b>2016</b> , 2, 20150299	1	
1082	In-vivo Dynamics of the Human Hippocampus across the Menstrual Cycle. <b>2016</b> , 6, 32833		55
1081	Motion-Robust Reconstruction based on Simultaneous Multi-Slice Registration for Diffusion-Weighted MRI of Moving Subjects. <b>2016</b> , 9902, 544-552		5
1080	A Case of Hearing Loss after Bilateral Putaminal Hemorrhage: A Diffusion-tensor Imaging Study. <b>2016</b> , 1, 20160003		2
1079	Stereotactic diffusion tensor imaging tractography for Gamma Knife radiosurgery. <b>2016</b> , 125, 139-146		10
1078	Characterizing brain tissue by assessment of the distribution of anisotropic microstructural environments in diffusion-compartment imaging (DIAMOND). <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 963-77	4.4	72
1077	Dorsal premotor activity and connectivity relate to action selection performance after stroke. <b>2016</b> , 37, 1816-30		16
1076	Speed of saccade execution and inhibition associated with fractional anisotropy in distinct fronto-frontal and fronto-striatal white matter pathways. <b>2016</b> , 37, 2811-22		13
1075	Functional organization of the fusiform gyrus revealed with connectivity profiles. <b>2016</b> , 37, 3003-16		48
1074	Integral curves from noisy diffusion MRI data with closed-form uncertainty estimates. <b>2016</b> , 19, 289-319		2
1073	Treatment of dysphasia with rTMS and language therapy after childhood stroke: Multimodal imaging of plastic change. <b>2016</b> , 159, 23-34		14
1072	Probabilistic Fiber-Tracking Reveals Degeneration of the Contralateral Auditory Pathway in Patients with Vestibular Schwannoma. <b>2016</b> , 37, 1610-6		12
1071	Glutathione Deficit Affects the Integrity and Function of the Fimbria/Fornix and Anterior Commissure in Mice: Relevance for Schizophrenia. <b>2015</b> , 19, pyv110		30
1070	Information processing speed mediates the relationship between white matter and general intelligence in schizophrenia. <b>2016</b> , 254, 26-33		16
1069	Diffusion tensor imaging in euthymic bipolar disorder - A tract-based spatial statistics study. <b>2016</b> , 203, 281-291		20
1068	Dentatorubrothalamic tract localization with postmortem MR diffusion tractography compared to histological 3D reconstruction. <b>2016</b> , 221, 3487-501		31
1067	The extreme capsule fiber complex in humans and macaque monkeys: a comparative diffusion MRI tractography study. <b>2016</b> , 221, 4059-4071		71

1066	Genetics of structural connectivity and information processing in the brain. <b>2016</b> , 221, 4643-4661	13
1065	Color responses and their adaptation in human superior colliculus and lateral geniculate nucleus. <b>2016</b> , 138, 211-220	13
1064	The volumetric and shape changes of the putamen and thalamus in first episode, untreated major depressive disorder. <b>2016</b> , 11, 658-666	64
1063	The Evaluation of Magnesium Chloride within a Polyethylene Glycol Formulation in a Porcine Model of Acute Spinal Cord Injury. <b>2016</b> , 33, 2202-2216	17
1062	Cerebrolysin combined with rehabilitation promotes motor recovery in patients with severe motor impairment after stroke. <b>2016</b> , 16, 31	33
1061	White matter microstructure in a genetically defined group at increased risk of autism symptoms, and a comparison with idiopathic autism: an exploratory study. <b>2016</b> , 10, 1280-1288	10
1060	Systemic Chemotherapy and White Matter Integrity in Tracts Associated with Cognition Among Children With Neurofibromatosis Type 1. <b>2016</b> , 63, 818-24	12
1059	Structural and functional connectivity mapping of the vestibular circuitry from human brainstem to cortex. <b>2016</b> , 221, 1291-308	101
1058	Age-related decline in functional connectivity of the vestibular cortical network. <b>2016</b> , 221, 1443-63	26
1057	The Organization of Right Prefrontal Networks Reveals Common Mechanisms of Inhibitory Regulation Across Cognitive, Emotional, and Motor Processes. <b>2016</b> , 26, 1634-1646	83
1056	Sleep reverts changes in human gray and white matter caused by wake-dependent training. <b>2016</b> , 129, 367-377	32
1055	Automated retinofugal visual pathway reconstruction with multi-shell HARDI and FOD-based analysis. <b>2016</b> , 125, 767-779	38
1054	Relationship between the anterior forebrain mesocircuit and the default mode network in the structural bases of disorders of consciousness. <b>2016</b> , 10, 27-35	47
1053	Functional and structural connectivity of the visual system in infants with perinatal brain injury. <b>2016</b> , 80, 43-8	10
1052	Observation of direction-dependent mechanical properties in the human brain with multi-excitation MR elastography. <b>2016</b> , 59, 538-546	41
1051	Multimodal description of whole brain connectivity: A comparison of resting state MEG, fMRI, and DWI. <b>2016</b> , 37, 20-34	44
1050	Degeneracy in model parameter estimation for multi-compartmental diffusion in neuronal tissue. <b>2016</b> , 29, 33-47	177
1049	Diffusion tensor imaging of the corticospinal tract and walking performance in multiple sclerosis. <b>2016</b> , 363, 225-31	27

1048	Applying a free-water correction to diffusion imaging data uncovers stress-related neural pathology in depression. <b>2016</b> , 10, 336-42	37
1047	Comparison of 3D orientation distribution functions measured with confocal microscopy and diffusion MRI. <b>2016</b> , 129, 185-197	71
1046	In vivo observation and biophysical interpretation of time-dependent diffusion in human white matter. <b>2016</b> , 129, 414-427	120
1045	Language learning and brain reorganization in a 3.5-year-old child with left perinatal stroke revealed using structural and functional connectivity. <b>2016</b> , 77, 95-118	20
1044	Glial and axonal changes in systemic lupus erythematosus measured with diffusion of intracellular metabolites. <b>2016</b> , 139, 1447-57	38
1043	Different Roles of Direct and Indirect Frontoparietal Pathways for Individual Working Memory Capacity. <b>2016</b> , 36, 2894-903	34
1042	Glyph-Based Comparative Visualization for Diffusion Tensor Fields. <b>2016</b> , 22, 797-806	28
1041	White matter structural connectivity changes correlate with epilepsy duration in temporal lobe epilepsy. <b>2016</b> , 120, 37-46	28
1040	A survey of current trends in diffusion MRI for structural brain connectivity. <b>2016</b> , 13, 011001	8
1039	Increased Default Mode Network Connectivity in Individuals at High Familial Risk for Depression. <b>2016</b> , 41, 1759-67	56
1038	Correlates of virtual navigation performance in older adults. <b>2016</b> , 39, 118-27	22
1037	Tract Orientation and Angular Dispersion Deviation Indicator (TOADDI): A framework for single-subject analysis in diffusion tensor imaging. <b>2016</b> , 126, 151-63	2
1036	Plasticity of Interhemispheric Temporal Lobe White Matter Pathways Due to Early Disruption of Corpus Callosum Development in Spina Bifida. <b>2016</b> , 6, 238-48	7
1035	Structural white matter differences underlying heterogeneous learning abilities after TBI. <b>2016</b> , 10, 1274-1279	5
1034	Investigating Brain Network Characteristics Interrupted by Covert White Matter Injury in Patients with Moyamoya Disease: Insights from Graph Theoretical Analysis. <b>2016</b> , 89, 654-665.e2	5
1033	Horizontal nystagmus and multiple sclerosis using 3-Tesla magnetic resonance imaging. <b>2016</b> , 185, 881-886	2
1032	Corpus Callosum Diffusion and Connectivity Features in High Functioning Subjects With Pyridoxine-Dependent Epilepsy. <b>2016</b> , 54, 43-8	5
1031	The Structural Connectome of the Human Central Homeostatic Network. <b>2016</b> , 6, 187-200	51

1030	White matter integrity of cerebellar-cortical tracts in reading impaired children: A probabilistic tractography study. <b>2016</b> , 161, 45-56	13
1029	Interactive effects of physical activity and APOE- $\epsilon$ 4 on white matter tract diffusivity in healthy elders. <b>2016</b> , 131, 102-12	33
1028	Role of Diffusion Tensor MR Imaging in Degenerative Cervical Spine Disease: a Review of the Literature. <b>2016</b> , 26, 265-76	13
1027	The impact of quality assurance assessment on diffusion tensor imaging outcomes in a large-scale population-based cohort. <b>2016</b> , 125, 903-919	128
1026	Altered thalamocortical and intra-thalamic functional connectivity during light sleep compared with wake. <b>2016</b> , 125, 657-667	29
1025	Tractography atlas-based spatial statistics: Statistical analysis of diffusion tensor image along fiber pathways. <b>2016</b> , 125, 301-310	16
1024	The common genetic influence over processing speed and white matter microstructure: Evidence from the Old Order Amish and Human Connectome Projects. <b>2016</b> , 125, 189-197	24
1023	Diffusion tensor magnetic resonance imaging in very early onset pediatric multiple sclerosis. <b>2016</b> , 22, 620-7	16
1022	Structural and functional neural correlates of self-reported attachment in healthy adults: evidence for an amygdalar involvement. <b>2016</b> , 10, 941-952	9
1021	Open Environment for Multimodal Interactive Connectivity Visualization and Analysis. <b>2016</b> , 6, 109-21	13
1020	Regularisation, interpolation and visualisation of diffusion tensor images using non-Euclidean statistics. <b>2016</b> , 43, 943-978	9
1019	Mapping Thalamocortical Functional Connectivity in Chronic and Early Stages of Psychotic Disorders. <b>2016</b> , 79, 1016-25	140
1018	Mnemonic discrimination relates to perforant path integrity: An ultra-high resolution diffusion tensor imaging study. <b>2016</b> , 129, 107-12	38
1017	Early Cerebellar Network Shifting in Spinocerebellar Ataxia Type 6. <b>2016</b> , 26, 3205-18	25
1016	Test-retest reliability of high angular resolution diffusion imaging acquisition within medial temporal lobe connections assessed via tract based spatial statistics, probabilistic tractography and a novel graph theory metric. <b>2016</b> , 10, 533-47	10
1015	Mild Cognitive Impairment is Associated With White Matter Integrity Changes in Late-Myelinating Regions Within the Corpus Callosum. <b>2016</b> , 31, 68-75	14
1014	Visual exploration of HARDI fibers with probabilistic tracking. <b>2016</b> , 330, 483-494	3
1013	Structural integrity of frontostriatal connections predicts longitudinal changes in self-esteem. <b>2017</b> , 12, 280-286	11

1012	Impaired topological architecture of brain structural networks in idiopathic Parkinson's disease: a DTI study. <b>2017</b> , 11, 113-128	35
1011	Anatomic characterization of prelemniscal radiations by probabilistic tractography: implications in Parkinson's disease. <b>2017</b> , 222, 71-81	15
1010	Increased structural white and grey matter network connectivity compensates for functional decline in early multiple sclerosis. <b>2017</b> , 23, 432-441	45
1009	On characterizing population commonalities and subject variations in brain networks. <b>2017</b> , 38, 215-229	3
1008	White Matter Abnormalities Associated With Subsyndromal Psychotic-Like Symptoms Predict Later Social Competence in Children and Adolescents. <b>2017</b> , 43, 152-159	14
1007	Executive function in paediatric medulloblastoma: The role of cerebrocerebellar connections. <b>2017</b> , 11, 174-200	31
1006	White Matter Tract Injury is Associated with Deep Gray Matter Iron Deposition in Multiple Sclerosis. <b>2017</b> , 27, 107-113	15
1005	A Simplified Method of Accurate Postprocessing of Diffusion Tensor Imaging for Use in Brain Tumor Resection. <b>2017</b> , 13, 47-59	37
1004	Development, validation and application of a new fornix template for studies of aging and preclinical Alzheimer's disease. <b>2017</b> , 13, 106-115	26
1003	White matter integrity and symptom dimensions of schizophrenia: A diffusion tensor imaging study. <b>2017</b> , 184, 59-68	35
1002	Proportional Motor Recovery After Stroke: Implications for Trial Design. <b>2017</b> , 48, 795-798	80
1001	Effects of aging on functional and structural brain connectivity. <b>2017</b> , 160, 32-40	213
1000	Multimodal Neuroimaging Computing for the Characterization of Neurodegenerative Disorders. <b>2017</b> ,	
999	A test-retest reliability analysis of diffusion measures of white matter tracts relevant for cognitive control. <b>2017</b> , 54, 24-33	21
998	White matter changes in microstructure associated with a maladaptive response to stress in rats. <b>2017</b> , 7, e1009	20
997	Symmetry of the arcuate fasciculus and its impact on language performance of patients with brain tumors in the language-dominant hemisphere. <b>2017</b> , 127, 1407-1416	15
996	Studying neuroanatomy using MRI. <b>2017</b> , 20, 314-326	147
995	Thalamocortical dysconnectivity in paroxysmal kinesigenic dyskinesia: Combining functional magnetic resonance imaging and diffusion tensor imaging. <b>2017</b> , 32, 592-600	26

994	Brain fingerprints of olfaction: a novel structural method for assessing olfactory cortical networks in health and disease. <b>2017</b> , 7, 42534	39
993	Probabilistic vs. deterministic fiber tracking and the influence of different seed regions to delineate cerebellar-thalamic fibers in deep brain stimulation. <b>2017</b> , 45, 1623-1633	28
992	The structural connectome of children with traumatic brain injury. <b>2017</b> , 38, 3603-3614	16
991	Transcriptional signatures of connectomic subregions of the human striatum. <b>2017</b> , 16, 647-663	24
990	White Matter Imaging Correlates of Early Cognitive Impairment Detected by the Montreal Cognitive Assessment After Transient Ischemic Attack and Minor Stroke. <b>2017</b> , 48, 1539-1547	25
989	Computational Diffusion MRI. <b>2017</b> ,	
988	How structure sculpts function: Unveiling the contribution of anatomical connectivity to the brain's spontaneous correlation structure. <b>2017</b> , 27, 047409	42
987	Robust and fast nonlinear optimization of diffusion MRI microstructure models. <b>2017</b> , 155, 82-96	56
986	Differential Hemispheric Predilection of Microstructural White Matter and Functional Connectivity Abnormalities between Respectively Semantic and Behavioral Variant Frontotemporal Dementia. <b>2017</b> , 56, 789-804	9
985	Diffusion tensor MRI tractography reveals increased fractional anisotropy (FA) in arcuate fasciculus following music-cued motor training. <b>2017</b> , 116, 40-46	27
984	Deconstructing white matter connectivity of human amygdala nuclei with thalamus and cortex subdivisions in vivo. <b>2017</b> , 38, 3927-3940	38
983	Sensitivity of OGSE ActiveAx to Microstructural Dimensions on a Clinical Scanner. <b>2017</b> , 85-97	1
982	Synergistic but independent: The role of corticospinal and alternate motor fibers for residual motor output after stroke. <b>2017</b> , 15, 118-124	25
981	Anatomical and functional correlates of cortical motor threshold of the dominant hand. <b>2017</b> , 10, 952-958	10
980	Structural connectivity differences in motor network between tremor-dominant and nontremor Parkinson's disease. <b>2017</b> , 38, 4716-4729	39
979	Diffusion MRI microstructure models with in vivo human brain Connectome data: results from a multi-group comparison. <b>2017</b> , 30, e3734	26
978	Directional sensitivity of anomalous diffusion in human brain assessed by tensorial fractional motion model. <b>2017</b> , 42, 74-81	6
977	Evaluating fibre orientation dispersion in white matter: Comparison of diffusion MRI, histology and polarized light imaging. <b>2017</b> , 157, 561-574	95



976	Modular Segregation of Structural Brain Networks Supports the Development of Executive Function in Youth. <b>2017</b> , 27, 1561-1572.e8	178
975	Intolerance of uncertainty predicts increased striatal volume. <b>2017</b> , 17, 895-899	15
974	Structural network connectivity impairment and depressive symptoms in cerebral small vessel disease. <b>2017</b> , 220, 8-14	21
973	Serum insulin-like growth factor-I levels are associated with improved white matter recovery after traumatic brain injury. <b>2017</b> , 82, 30-43	13
972	Skilled Reach Performance Correlates With Corpus Callosum Structural Integrity in Individuals With Mild Motor Impairment After Stroke: A Preliminary Investigation. <b>2017</b> , 31, 657-665	3
971	Global and Local Connectivity Differences Converge With Gene Expression in a Neurodevelopmental Disorder of Known Genetic Origin. <b>2017</b> , 27, 3806-3817	13
970	Computational Anatomy Based on Whole Body Imaging. <b>2017</b> ,	8
969	Altered structural connectivity of pain-related brain network in burning mouth syndrome-investigation by graph analysis of probabilistic tractography. <b>2017</b> , 59, 525-532	22
968	Fornix Under Water? Ventricular Enlargement Biases Forniceal Diffusion Magnetic Resonance Imaging Indices in Anorexia Nervosa. <b>2017</b> , 2, 430-437	20
967	Anisotropic diffusion phantoms based on microcapillaries. <b>2017</b> , 279, 1-10	10
966	Voxel-based analysis of diffusion tensor imaging in patients with mesial temporal lobe epilepsy. <b>2017</b> , 132, 100-108	5
965	Small-world human brain networks: Perspectives and challenges. <b>2017</b> , 77, 286-300	146
964	Semi-local tractography strategies using neighborhood information. <b>2017</b> , 38, 165-183	2
963	White matter maturation is associated with the emergence of Theory of Mind in early childhood. <b>2017</b> , 8, 14692	59
962	Domain Selectivity in the Parahippocampal Gyrus Is Predicted by the Same Structural Connectivity Patterns in Blind and Sighted Individuals. <b>2017</b> , 37, 4705-4716	10
961	Neural Reorganization Due to Neonatal Amygdala Lesions in the Rhesus Monkey: Changes in Morphology and Network Structure. <b>2017</b> , 27, 3240-3253	9
960	Linking optic radiation volume to visual perception in schizophrenia and bipolar disorder. <b>2017</b> , 190, 102-106	9
959	Dissociable diffusion MRI patterns of white matter microstructure and connectivity in Alzheimer's disease spectrum. <b>2017</b> , 7, 45131	28

958	Fractional anisotropy derived from the diffusion tensor distribution function boosts power to detect Alzheimer's disease deficits. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 2322-2333	4.4	15
957	White-matter crossing-fiber microstructure in adolescents prenatally exposed to cocaine. <b>2017</b> , 174, 23-29		7
956	Single or multiple frequency generators in on-going brain activity: A mechanistic whole-brain model of empirical MEG data. <b>2017</b> , 152, 538-550		87
955	A systematic evaluation of intraoperative white matter tract shift in pediatric epilepsy surgery using high-field MRI and probabilistic high angular resolution diffusion imaging tractography. <b>2017</b> , 19, 592-605		10
954	Structural and functional hyperconnectivity within the sensorimotor system in xenomelia. <b>2017</b> , 7, e00657		20
953	White matter and cortical changes in atypical parkinsonisms: A multimodal quantitative MR study. <b>2017</b> , 39, 44-51		19
952	CIVILITY: Cloud based Interactive Visualization of Tractography Brain Connectome. <b>2017</b> , 10137,		3
951	Resolution limit of cylinder diameter estimation by diffusion MRI: The impact of gradient waveform and orientation dispersion. <b>2017</b> , 30, e3711		81
950	A Bayesian Double Fusion Model for Resting-State Brain Connectivity Using Joint Functional and Structural Data. <b>2017</b> , 7, 219-227		12
949	Pattern of structural brain changes in social anxiety disorder after cognitive behavioral group therapy: a longitudinal multimodal MRI study. <b>2017</b> , 22, 1164-1171		29
948	Polyunsaturated fatty acid biostatus, phospholipase A activity and brain white matter microstructure across adolescence. <b>2017</b> , 343, 423-433		10
947	Functional anatomy of the human thalamus at rest. <b>2017</b> , 147, 678-691		34
946	Hippocampal structure predicts cortical indices of reactivation of related items. <b>2017</b> , 95, 182-192		6
945	Corpus Callosum Structural Integrity Is Associated With Postural Control Improvement in Persons With Multiple Sclerosis Who Have Minimal Disability. <b>2017</b> , 31, 343-353		12
944	Computational modelling of traumatic brain injury predicts the location of chronic traumatic encephalopathy pathology. <b>2017</b> , 140, 333-343		134
943	White matter lesions relate to tract-specific reductions in functional connectivity. <b>2017</b> , 51, 97-103		24
942	Tracking thoughts: Exploring the neural architecture of mental time travel during mind-wandering. <b>2017</b> , 147, 272-281		64
941	White Matter Disruption and Connected Speech in Non-Fluent and Semantic Variants of Primary Progressive Aphasia. <b>2017</b> , 7, 52-73		20

940	Biological Relevance of Network Architecture. <b>2017</b> , 988, 1-29	2
939	Evaluation of striatonigral connectivity using probabilistic tractography in Parkinson's disease. <b>2017</b> , 16, 557-563	32
938	A Sparse Bayesian Learning Algorithm for White Matter Parameter Estimation from Compressed Multi-shell Diffusion MRI. <b>2017</b> , 10433, 602-610	
937	Evaluating the relationship between white matter integrity, cognition, and varieties of video game learning. <b>2017</b> , 35, 437-456	12
936	Punctate White Matter Lesions Associated With Altered Brain Development And Adverse Motor Outcome In Preterm Infants. <b>2017</b> , 7, 13250	38
935	Direct Electrical Stimulation in the Human Brain Disrupts Melody Processing. <b>2017</b> , 27, 2684-2691.e7	16
934	White matter microstructural deficits in 22q11.2 deletion syndrome. <b>2017</b> , 268, 35-44	14
933	Neural Substrate for Metacognitive Accuracy of Tactile Working Memory. <b>2017</b> , 27, 5343-5352	10
932	Neurogenetic plasticity and sex influence the link between corticolimbic structural connectivity and trait anxiety. <b>2017</b> , 7, 10959	8
931	Multidimensional encoding of brain connectomes. <b>2017</b> , 7, 11491	30
930	Analysis of structure-function network decoupling in the brain systems of spastic diplegic cerebral palsy. <b>2017</b> , 38, 5292-5306	20
929	Structural connectivity differences in essential tremor with and without resting tremor. <b>2017</b> , 264, 1865-1874	22
928	Evaluation and Minimization of the Pseudohepatic Anisotropy Artifact in Liver Intravoxel Incoherent Motion. <b>2017</b> , 41, 679-687	1
927	Relationships between the integrity and function of lumbar nerve roots as assessed by diffusion tensor imaging and neurophysiology. <b>2017</b> , 59, 893-903	4
926	The anatomical scaffold underlying the functional centrality of known cortical hubs. <b>2017</b> , 38, 5141-5160	8
925	Subthalamic deep brain stimulation sweet spots and hyperdirect cortical connectivity in Parkinson's disease. <b>2017</b> , 158, 332-345	131
924	Takotsubo Syndrome - Predictable from brain imaging data. <b>2017</b> , 7, 5434	23
923	Behavioral and stereological characterization of Hdc KO mice: Relation to Tourette syndrome. <b>2017</b> , 525, 3476-3487	7

922	The effects of memory training on behavioral and microstructural plasticity in young and older adults. <b>2017</b> , 38, 5666-5680	33
921	Investigating the maturation of microstructure and radial orientation in the preterm human cortex with diffusion MRI. <b>2017</b> , 162, 65-72	16
920	Diffusion Basis Spectral Imaging Detects Ongoing Brain Inflammation in Virologically Well-Controlled HIV+ Patients. <b>2017</b> , 76, 423-430	13
919	Tractography-Based Score for Learning Effective Connectivity From Multimodal Imaging Data Using Dynamic Bayesian Networks. <b>2018</b> , 65, 1057-1068	7
918	Anatomic consistencies across epilepsies: a stereotactic-EEG informed high-resolution structural connectivity study. <b>2017</b> , 140, 2639-2652	45
917	Frontoparietal Structural Connectivity in Childhood Predicts Development of Functional Connectivity and Reasoning Ability: A Large-Scale Longitudinal Investigation. <b>2017</b> , 37, 8549-8558	43
916	Structural reorganization of the early visual cortex following Braille training in sighted adults. <b>2017</b> , 7, 17448	13
915	Linking functional connectivity and dynamic properties of resting-state networks. <b>2017</b> , 7, 16610	23
914	Predicting Cognitive Recovery of Stroke Patients from the Structural MRI Connectome Using a Naïve Bayesian Tree Classifier. <b>2017</b> ,	0
913	Altered Structural Connectivity of the Left Visual Thalamus in Developmental Dyslexia. <b>2017</b> , 27, 3692-3698.e432	32
912	Task-relevant brain networks identified with simultaneous PET/MR imaging of metabolism and connectivity. <b>2018</b> , 223, 1369-1378	27
911	White matter integrity correlates with choline level in dorsal anterior cingulate cortex of obsessive compulsive disorder patients: A combined DTI-MRS study. <b>2017</b> , 2017, 3521-3524	3
910	A translational study on looming-evoked defensive response and the underlying subcortical pathway in autism. <b>2017</b> , 7, 14755	9
909	Right-sided dominance of the bilateral vestibular system in the upper brainstem and thalamus. <b>2017</b> , 264, 55-62	34
908	Intrasession and Intersession Repeatability of Diffusion Tensor Imaging in Healthy Human Liver. <b>2017</b> , 41, 578-585	2
907	Diffusion Magnetic Resonance Imaging in Diffuse Low-Grade Gliomas. <b>2017</b> , 375-410	
906	Cognitive performance in healthy older adults relates to spontaneous switching between states of functional connectivity during rest. <b>2017</b> , 7, 5135	110
905	Estimation of individual axon bundle properties by a Multi-Resolution Discrete-Search method. <b>2017</b> , 42, 26-43	4

904	Improved tractography using asymmetric fibre orientation distributions. <b>2017</b> , 158, 205-218	29
903	Performance of unscented Kalman filter tractography in edema: Analysis of the two-tensor model. <b>2017</b> , 15, 819-831	24
902	Application and evaluation of NODDI in the cervical spinal cord of multiple sclerosis patients. <b>2017</b> , 15, 333-342	55
901	Accelerated Changes in Cortical Thickness Measurements with Age in Military Service Members with Traumatic Brain Injury. <b>2017</b> , 34, 3107-3116	20
900	The impact of CACNA1C gene, and its epistasis with ZNF804A, on white matter microstructure in health, schizophrenia and bipolar disorder. <b>2017</b> , 16, 479-488	36
899	Deep brain stimulation for childhood dystonia: Is 'where' as important as in 'whom'?. <b>2017</b> , 21, 176-184	22
898	The most relevant human brain regions for functional connectivity: Evidence for a dynamical workspace of binding nodes from whole-brain computational modelling. <b>2017</b> , 146, 197-210	32
897	Atypical white-matter microstructure in congenitally deaf adults: A region of interest and tractography study using diffusion-tensor imaging. <b>2017</b> , 343, 72-82	19
896	Decreased between-hemisphere connectivity strength and network efficiency in geriatric depression. <b>2017</b> , 38, 53-67	23
895	Connectivity-based parcellation of the macaque frontal cortex, and its relation with the cytoarchitectonic distribution described in current atlases. <b>2017</b> , 222, 1331-1349	15
894	Auditory and visual connectivity gradients in frontoparietal cortex. <b>2017</b> , 38, 255-270	22
893	Consistency-based thresholding of the human connectome. <b>2017</b> , 145, 118-129	92
892	Influence of Small Vessel Disease and Microstructural Integrity on Neurocognitive Functioning in Older Individuals: The DANTE Study Leiden. <b>2017</b> , 38, 25-30	13
891	Structural integrity between executive control and reward regions of the brain predicts body fat percentage in chronic dieters. <b>2017</b> , 8, 162-166	8
890	Uncertainty propagation in computationally expensive models: A survey of sampling methods and application to scatterometry. <b>2017</b> , 97, 79-87	3
889	Integration demands modulate effective connectivity in a fronto-temporal network for contextual sentence integration. <b>2017</b> , 147, 812-824	18
888	Associations between autistic traits and fractional anisotropy values in white matter tracts in a nonclinical sample of young adults. <b>2017</b> , 235, 259-267	8
887	In vivo detection of connectivity between cortical and white matter lesions in early MS. <b>2017</b> , 23, 973-981	2

886	The structural connectivity of higher order association cortices reflects human functional brain networks. <b>2017</b> , 97, 221-239	49
885	Functional connectivity and microstructural white matter changes in phenocopy frontotemporal dementia. <b>2017</b> , 27, 1352-1360	13
884	Defining thalamic nuclei and topographic connectivity gradients in vivo. <b>2017</b> , 158, 466-479	53
883	Active delineation of Meyer's loop using oriented priors through MAGNETic tractography (MAGNET). <b>2017</b> , 38, 509-527	34
882	Relationship between structural and functional connectivity change across the adult lifespan: A longitudinal investigation. <b>2017</b> , 38, 561-573	48
881	Elevated nucleus accumbens structural connectivity associated with proneness to hypomania: a reward hypersensitivity perspective. <b>2017</b> , 12, 928-936	19
880	A neuroanatomical predictor of mirror self-recognition in chimpanzees. <b>2017</b> , 12, 37-48	50
879	Anatomical-connectivity based parcellation of hippocampus and medial temporal lobe epilepsy classification. <b>2017</b> ,	
878	Design and validation of diffusion MRI models of white matter. <b>2017</b> , 28,	106
877	White Matter Tract Integrity in Alzheimer's Disease vs. Late Onset Bipolar Disorder and Its Correlation with Systemic Inflammation and Oxidative Stress Biomarkers. <b>2017</b> , 9, 179	12
876	Endothelial Function Is Associated with White Matter Microstructure and Executive Function in Older Adults. <b>2017</b> , 9, 255	10
875	White Matter Correlates of Auditory Comprehension Outcomes in Chronic Post-Stroke Aphasia. <b>2017</b> , 8, 54	16
874	Upper Extremity Motor Impairments and Microstructural Changes in Bulbospinal Pathways in Chronic Hemiparetic Stroke. <b>2017</b> , 8, 257	50
873	Pronounced Structural and Functional Damage in Early Adult Pediatric-Onset Multiple Sclerosis with No or Minimal Clinical Disability. <b>2017</b> , 8, 608	12
872	Microstructural Alterations in Asymptomatic and Symptomatic Patients with Spinocerebellar Ataxia Type 3: A Tract-Based Spatial Statistics Study. <b>2017</b> , 8, 714	12
871	White Matter Integrity and Treatment-Based Change in Speech Performance in Minimally Verbal Children with Autism Spectrum Disorder. <b>2017</b> , 11, 175	19
870	Cortex Parcellation Associated Whole White Matter Parcellation in Individual Subjects. <b>2017</b> , 11, 352	5
869	Running Neuroimaging Applications on Amazon Web Services: How, When, and at What Cost?. <b>2017</b> , 11, 63	12

868	Bayesian Tractography Using Geometric Shape Priors. <b>2017</b> , 11, 483	3
867	Bayesian Rician Regression for Neuroimaging. <b>2017</b> , 11, 586	6
866	Deafferentation of the Superior Colliculus Abolishes Spatial Summation of Redundant Visual Signals. <b>2017</b> , 11, 9	3
865	Thalamocortical Connectivity and Microstructural Changes in Congenital and Late Blindness. <b>2017</b> , 2017, 9807512	21
864	The visual white matter: The application of diffusion MRI and fiber tractography to vision science. <b>2017</b> , 17, 4	41
863	Diagnostic potential of multimodal neuroimaging in posttraumatic stress disorder. <b>2017</b> , 12, e0177847	6
862	Similar white matter changes in schizophrenia and bipolar disorder: A tract-based spatial statistics study. <b>2017</b> , 12, e0178089	47
861	Diffusion Tensor Imaging and Fiber Tractography of Pediatric Posterior Fossa Malformations. <b>2017</b> , 7, 243-261	1
860	Predictors of Memory in Healthy Aging: Polyunsaturated Fatty Acid Balance and Fornix White Matter Integrity. <b>2017</b> , 8, 372-383	19
859	Connectivity profiles of the insular network for speech control in healthy individuals and patients with spasmodic dysphonia. <b>2018</b> , 223, 2489-2498	7
858	Altered anatomical connections of associative and limbic cortico-basal-ganglia circuits in obsessive-compulsive disorder. <b>2018</b> , 51, 1-8	15
857	Single pulse TMS to the DLPFC, compared to a matched sham control, induces a direct, causal increase in caudate, cingulate, and thalamic BOLD signal. <b>2018</b> , 11, 789-796	21
856	Structural connectome with high angular resolution diffusion imaging MRI: assessing the impact of diffusion weighting and sampling on graph-theoretic measures. <b>2018</b> , 60, 497-504	4
855	Natural biological variation of white matter microstructure is accentuated in Huntington's disease. <b>2018</b> , 39, 3516-3527	11
854	Modeling white matter microstructure with fiber ball imaging. <b>2018</b> , 176, 11-21	30
853	Alterations in the microstructure of white matter in children and adolescents with Tourette syndrome measured using tract-based spatial statistics and probabilistic tractography. <b>2018</b> , 104, 75-89	15
852	Amygdala Functional and Structural Connectivity Predicts Individual Risk Tolerance. <b>2018</b> , 98, 394-404.e4	40
851	Computational Diffusion MRI. <b>2018</b> ,	

850	A Generalized SMT-Based Framework for Diffusion MRI Microstructural Model Estimation. <b>2018</b> , 51-63	2
849	Connectivity of the ventral visual cortex is necessary for object recognition in patients. <b>2018</b> , 39, 2786-2799	3
848	Bayesian uncertainty quantification in linear models for diffusion MRI. <b>2018</b> , 175, 272-285	7
847	Persistence of abnormalities in white matter in children with type 1 diabetes. <b>2018</b> , 61, 1538-1547	23
846	Connectivity derived thalamic segmentation in deep brain stimulation for tremor. <b>2018</b> , 18, 130-142	98
845	Reduced white matter connectivity associated with auditory verbal hallucinations in first-episode and chronic schizophrenia: A diffusion tensor imaging study. <b>2018</b> , 273, 63-70	18
844	Cortical parcellation based on structural connectivity: A case for generative models. <b>2018</b> , 173, 592-603	11
843	Energy-aware acceleration on GPUs: Findings on a bioinformatics benchmark. <b>2018</b> , 20, 88-101	1
842	No evidence for systematic white matter correlates of dyslexia and dyscalculia. <b>2018</b> , 18, 356-366	9
841	Data-Driven Subtyping of Executive Function-Related Behavioral Problems in Children. <b>2018</b> , 57, 252-262.e4	21
840	Disease-Related Microstructural Differences in the Brain in Women With Provoked Vestibulodynia. <b>2018</b> , 19, 528.e1-528.e15	11
839	Integrating Space, Time, and Orientation in Spiking Neural Networks: A Case Study on Multimodal Brain Data Modeling. <b>2018</b> , 29, 5249-5263	17
838	Post-mortem inference of the human hippocampal connectivity and microstructure using ultra-high field diffusion MRI at 11.7 T. <b>2018</b> , 223, 2157-2179	28
837	Super-Resolution Track-Density Imaging Reveals Fine Anatomical Features in Tree Shrew Primary Visual Cortex and Hippocampus. <b>2018</b> , 34, 438-448	5
836	Multimodal Characterization of the Late Effects of Traumatic Brain Injury: A Methodological Overview of the Late Effects of Traumatic Brain Injury Project. <b>2018</b> , 35, 1604-1619	23
835	Connectivity-based characterisation of subcortical grey matter pathology in frontotemporal dementia and ALS: a multimodal neuroimaging study. <b>2018</b> , 12, 1696-1707	59
834	Analytic tractography: A closed-form solution for estimating local white matter connectivity with diffusion MRI. <b>2018</b> , 169, 473-484	8
833	Delirium pathophysiology: An updated hypothesis of the etiology of acute brain failure. <b>2018</b> , 33, 1428-1457	183



832	The potential value of probabilistic tractography-based for MR-guided focused ultrasound thalamotomy for essential tremor. <b>2018</b> , 17, 1019-1027	28
831	The two-year progression of structural and functional cerebral MRI in amyotrophic lateral sclerosis. <b>2018</b> , 17, 953-961	64
830	Combining viscoelasticity, diffusivity and volume of the hippocampus for the diagnosis of Alzheimer's disease based on magnetic resonance imaging. <b>2018</b> , 18, 485-493	39
829	Multilevel convergence of interoceptive impairments in hypertension: New evidence of disrupted body-brain interactions. <b>2018</b> , 39, 1563-1581	27
828	Relation of Retinal and Serum Lutein and Zeaxanthin to White Matter Integrity in Older Adults: A Diffusion Tensor Imaging Study. <b>2018</b> , 33, 861-874	13
827	A widespread visually-sensitive functional network relates to symptoms in essential tremor. <b>2018</b> , 141, 472-485	40
826	Structural connectivity of right frontal hyperactive areas scales with stuttering severity. <b>2018</b> , 141, 191-204	48
825	Default mode network abnormalities in posttraumatic stress disorder: A novel network-restricted topology approach. <b>2018</b> , 176, 489-498	81
824	Altered structural and functional connectivity of the insula in functional dyspepsia. <b>2018</b> , 30, e13345	7
823	Children's academic attainment is linked to the global organization of the white matter connectome. <b>2018</b> , 21, e12662	10
822	The salience network and human personality: Integrity of white matter tracts within anterior and posterior salience network relates to the self-directedness character trait. <b>2018</b> , 1692, 66-73	6
821	A Role for the Frontal Aslant Tract in Speech Planning: A Neurosurgical Case Study. <b>2018</b> , 30, 752-769	32
820	Cerebellar Growth Impairment Characterizes School-Aged Children Born Preterm without Perinatal Brain Lesions. <b>2018</b> , 39, 956-962	12
819	Connectivity-based segmentation of the brainstem by probabilistic tractography. <b>2018</b> , 1690, 74-88	3
818	A connectomic approach for subcallosal cingulate deep brain stimulation surgery: prospective targeting in treatment-resistant depression. <b>2018</b> , 23, 843-849	201
817	Thalamo-cortical functional connectivity in schizophrenia and bipolar disorder. <b>2018</b> , 12, 640-652	37
816	Relevance of neuroimaging for neurocognitive and behavioral outcome after pediatric traumatic brain injury. <b>2018</b> , 12, 29-43	26
815	The heterogeneity of the left dorsal premotor cortex evidenced by multimodal connectivity-based parcellation and functional characterization. <b>2018</b> , 170, 400-411	44

814	Binge drinking differentially affects cortical and subcortical microstructure. <b>2018</b> , 23, 403-411	22
813	Groupwise structural parcellation of the whole cortex: A logistic random effects model based approach. <b>2018</b> , 170, 307-320	8
812	Multimodal Functional and Structural Brain Connectivity Analysis in Autism: A Preliminary Integrated Approach With EEG, fMRI, and DTI. <b>2018</b> , 10, 213-226	19
811	Tracking Training-Related Plasticity by Combining fMRI and DTI: The Right Hemisphere Ventral Stream Mediates Musical Syntax Processing. <b>2018</b> , 28, 1209-1218	20
810	A Template and Probabilistic Atlas of the Human Sensorimotor Tracts using Diffusion MRI. <b>2018</b> , 28, 1685-1699	61
809	Validation of an automated tractography method for the optic radiations as a biomarker of visual acuity in neurofibromatosis-associated optic pathway glioma. <b>2018</b> , 299, 308-316	11
808	Effects of Serotonin Transporter Gene Variation on Impulsivity Mediated by Default Mode Network: A Family Study of Depression. <b>2018</b> , 28, 1911-1921	13
807	Estimation of white matter fiber parameters from compressed multiresolution diffusion MRI using sparse Bayesian learning. <b>2018</b> , 167, 488-503	6
806	Differences in brain morphology and working memory capacity across childhood. <b>2018</b> , 21, e12579	24
805	The role of abnormalities in the corpus callosum in social cognition deficits after Traumatic Brain Injury. <b>2018</b> , 13, 471-479	17
804	Image processing and Quality Control for the first 10,000 brain imaging datasets from UK Biobank. <b>2018</b> , 166, 400-424	415
803	Altered white matter structure in the visual system following early monocular enucleation. <b>2018</b> , 39, 133-144	16
802	Development of short-range white matter in healthy children and adolescents. <b>2018</b> , 39, 204-217	14
801	Cluster Confidence Index: A Streamline-Wise Pathway Reproducibility Metric for Diffusion-Weighted MRI Tractography. <b>2018</b> , 28, 64-69	14
800	Structural Neuroimaging of Anorexia Nervosa: Future Directions in the Quest for Mechanisms Underlying Dynamic Alterations. <b>2018</b> , 83, 224-234	72
799	White matter pathways in persistent developmental stuttering: Lessons from tractography. <b>2018</b> , 55, 68-83	6
798	Postmortem DTI reveals altered hippocampal connectivity in wild sea lions diagnosed with chronic toxicosis from algal exposure. <b>2018</b> , 526, 216-228	14
797	Combining Improved Euler and Runge-Kutta 4th order for Tractography in Diffusion-Weighted MRI. <b>2018</b> , 41, 90-99	3

796	Diffusion tractography reveals pervasive asymmetry of cerebral white matter tracts in the bottlenose dolphin ( <i>Tursiops truncatus</i> ). <b>2018</b> , 223, 1697-1711	10
795	Impact of brain shift on subcallosal cingulate deep brain stimulation. <b>2018</b> , 11, 445-453	17
794	Anatomical and functional changes in the brain after simultaneous interpreting training: A longitudinal study. <b>2018</b> , 99, 243-257	29
793	Structural network differences in chronic musculoskeletal pain: Beyond fractional anisotropy. <b>2018</b> , 182, 441-455	14
792	Diffusion MRI of white matter microstructure development in childhood and adolescence: Methods, challenges and progress. <b>2018</b> , 33, 161-175	71
791	Relations between cortical thickness, serotonin 1A receptor binding, and structural connectivity: A multimodal imaging study. <b>2018</b> , 39, 1043-1055	8
790	High-Fidelity Measures of Whole-Brain Functional Connectivity and White Matter Integrity Mediate Relationships between Traumatic Brain Injury and Post-Traumatic Stress Disorder Symptoms. <b>2018</b> , 35, 767-779	14
789	A digital 3D atlas of the marmoset brain based on multi-modal MRI. <b>2018</b> , 169, 106-116	64
788	Prefrontal Cortex Stimulation Enhances Fear Extinction Memory in Humans. <b>2018</b> , 84, 129-137	50
787	Cognitive abilities, brain white matter hyperintensity volume, and structural network connectivity in older age. <b>2018</b> , 39, 622-632	28
786	Altered frontal interhemispheric and fronto-limbic structural connectivity in unmedicated adults with obsessive-compulsive disorder. <b>2018</b> , 39, 803-810	16
785	Insights into brain microstructure from in vivo DW-MRS. <b>2018</b> , 182, 97-116	34
784	Global structural integrity and effective connectivity in patients with disorders of consciousness. <b>2018</b> , 11, 358-365	26
783	Psychoradiological patterns of small-world properties and a systematic review of connectome studies of patients with 6 major psychiatric disorders. <b>2018</b> , 43, 427	28
782	Robust and Fast Markov Chain Monte Carlo Sampling of Diffusion MRI Microstructure Models. <b>2018</b> , 12, 97	9
781	Feasibility of Diffusion Tensor and Morphologic Imaging of Peripheral Nerves at Ultra-High Field Strength. <b>2018</b> , 53, 705-713	5
780	Multimodal analysis of aged wild-type mice exposed to repeated scanning ultrasound treatments demonstrates long-term safety. <b>2018</b> , 8, 6233-6247	18
779	White Matter Tissue Quantification at Low $b$ -Values Within Constrained Spherical Deconvolution Framework. <b>2018</b> , 9, 716	18

778	Differences in white matter connectivity between treatment-resistant and treatment-responsive subtypes of schizophrenia. <b>2018</b> , 282, 47-54	5
777	Performance and Function Meet Structure: A White Matter Connection Tuned for Vocal Production. <b>2018</b> , 8, 628-636	1
776	Investigating Sex-Specific Characteristics of Nicotine Addiction Using Metabolic and Structural Magnetic Resonance Imaging. <b>2018</b> , 24, 267-277	3
775	Poor Sleep Quality Associates With Decreased Functional and Structural Brain Connectivity in Normative Aging: A MRI Multimodal Approach. <b>2018</b> , 10, 375	15
774	Recent advances in diffusion neuroimaging: applications in the developing preterm brain. <b>2018</b> , 7,	28
773	Analyzing the Human Connectome Project Datasets using GPUs. <b>2018</b> ,	
772	Evaluating the Strength of Structural Connectivity Underlying Brain Functional Networks. <b>2018</b> , 8, 579-594	3
771	Alterations in Brain Network Topology and Structural-Functional Connectome Coupling Relate to Cognitive Impairment. <b>2018</b> , 10, 404	22
770	Structural Magnetic Resonance Imaging in Huntington's Disease. <b>2018</b> , 142, 335-380	7
769	Whole-Brain Multimodal Neuroimaging Model Using Serotonin Receptor Maps Explains Non-linear Functional Effects of LSD. <b>2018</b> , 28, 3065-3074.e6	69
768	Compressed Sensing Diffusion Spectrum Imaging for Accelerated Diffusion Microstructure MRI in Long-Term Population Imaging. <b>2018</b> , 12, 650	14
767	Rostro-caudal organization of the human posterior superior temporal sulcus revealed by connectivity profiles. <b>2018</b> , 39, 5112-5125	8
766	Contrast-enhanced ultrasound tractography for 3D vascular imaging of the prostate. <b>2018</b> , 8, 14640	7
765	Conscious While Being Considered in an Unresponsive Wakefulness Syndrome for 20 Years. <b>2018</b> , 9, 671	8
764	Monocyte depletion attenuates the development of posttraumatic hydrocephalus and preserves white matter integrity after traumatic brain injury. <b>2018</b> , 13, e0202722	14
763	Cross-sectional white matter microstructure differences in age and trait mindfulness. <b>2018</b> , 13, e0205718	7
762	The relationship between corticospinal tract integrity and lower-extremity strength is attenuated when controlling for age and sex in multiple sclerosis. <b>2018</b> , 1701, 171-176	2
761	Early changes in white matter predict intellectual outcome in children treated for posterior fossa tumors. <b>2018</b> , 20, 697-704	9

760	Validation of diffusion tensor imaging measures of nigrostriatal neurons in macaques. <b>2018</b> , 13, e0202201	9
759	Temporal lobe epilepsy affects spatial organization of entorhinal cortex connectivity. <b>2018</b> , 88, 87-95	3
758	Pathological Insights From Quantitative Susceptibility Mapping and Diffusion Tensor Imaging in Ice Hockey Players Pre and Post-concussion. <b>2018</b> , 9, 575	9
757	Analysis and correction of errors in DTI-based tractography due to diffusion gradient inhomogeneity. <b>2018</b> , 296, 5-11	13
756	Along-tract analysis of the arcuate fasciculus using the Laplacian operator to evaluate different tractography methods. <b>2018</b> , 54, 183-193	4
755	Anatomical-Connectivity Based Parcellation of Hippocampus and Medial Temporal Lobe Epilepsy Classification. <b>2018</b> ,	
754	The Temporal Dynamics of Brain Plasticity in Aging. <b>2018</b> , 28, 1857-1865	15
753	White Matter Microstructure Predicts Focal and Broad Functional Brain Dedifferentiation in Normal Aging. <b>2020</b> , 32, 1536-1549	4
752	Investigating the effect of changing parameters when building prediction models for post-stroke aphasia. <b>2020</b> , 4, 725-735	14
751	Modulation of Fibers to Motor Cortex during Thalamic DBS in Tourette Patients Correlates with Tic Reduction. <b>2020</b> , 10,	10
750	Neuro4Neuro: A neural network approach for neural tract segmentation using large-scale population-based diffusion imaging. <b>2020</b> , 218, 116993	15
749	Frontal-executive and corticolimbic structural brain circuitry in older people with remitted depression, mild cognitive impairment, Alzheimer's dementia, and normal cognition. <b>2020</b> , 45, 1567-1578	5
748	Optimizing Diffusion Imaging Protocols for Structural Connectomics in Mouse Models of Neurological Conditions. <b>2020</b> , 8,	3
747	Longitudinal Structural MRI in Neurologically Healthy Adults. <b>2020</b> , 52, 1385-1399	2
746	Trait self-reflectiveness relates to time-varying dynamics of resting state functional connectivity and underlying structural connectomes: Role of the default mode network. <b>2020</b> , 219, 116896	8
745	A bayesian approach to examining default mode network functional connectivity and cognitive performance in major depressive disorder. <b>2020</b> , 301, 111102	0
744	Exploring white matter microstructure and the impact of antipsychotics in adolescent-onset psychosis. <b>2020</b> , 15, e0233684	4
743	Multi-scale segmentation in GBM treatment using diffusion tensor imaging. <b>2020</b> , 123, 103815	6

742	Prospective Follow-up of Intramedullary Slitlike Cavities: A Consecutive Series of 48 Patients. <b>2020</b> , 11, 495		
741	A Critical Review of White Matter Changes in Huntington's Disease. <b>2020</b> , 35, 1302-1311		16
740	Uncinate fasciculus and word selection processing in Parkinson's disease. <b>2020</b> , 146, 107504		4
739	Frontoparietal structural properties mediate adult life span differences in executive function. <b>2020</b> , 10, 9066		4
738	Origin of orientation-dependent R (=1/T) relaxation in white matter. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2713-2723	4-4	3
737	DeepDTI: High-fidelity six-direction diffusion tensor imaging using deep learning. <b>2020</b> , 219, 117017		27
736	Sensorimotor white matter projections and disease severity in primary Restless Legs Syndrome/Willis-Ekbom disease: a multimodal DTI analysis. <b>2020</b> , 73, 106-116		3
735	Changes of white matter microstructure after successful treatment of bipolar depression. <b>2020</b> , 274, 1049-1056		4
734	Multimodal MRI Longitudinal Assessment of White and Gray Matter in Different SPG Types of Hereditary Spastic Paraparesis. <b>2020</b> , 14, 325		5
733	Fitness Level Influences White Matter Microstructure in Postmenopausal Women. <b>2020</b> , 12, 129		5
732	Neural bases of visual processing of moving and stationary stimuli presented to the blind hemifield of hemianopic patients. <b>2020</b> , 141, 107430		3
731	Graph Theoretic Analysis of Brain Connectomics in Multiple Sclerosis: Reliability and Relationship with Cognition. <b>2020</b> , 10, 95-104		9
730	Interictal structural and functional connectivity in idiopathic generalized epilepsy: A systematic review of graph theoretical studies. <b>2020</b> , 106, 107013		12
729	Towards unconstrained compartment modeling in white matter using diffusion-relaxation MRI with tensor-valued diffusion encoding. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 1605-1623	4-4	33
728	Diffusion Weighted and Diffusion Tensor MRI in Pediatric Neuroimaging Including Connectomics: Principles and Applications. <b>2020</b> , 33, 100797		4
727	Quantitative MRI-Based Analysis Identifies Developmental Limbic Abnormalities in PCDH19 Encephalopathy. <b>2020</b> , 30, 6039-6050		2
726	Denoise magnitude diffusion magnetic resonance images via variance-stabilizing transformation and optimal singular-value manipulation. <b>2020</b> , 215, 116852		6
725	Test-retest reliability and minimal detectable change of corticospinal tract integrity in chronic stroke. <b>2020</b> , 41, 2514-2526		7

724	The emergence of dyslexia in the developing brain. <b>2020</b> , 211, 116633	20
723	Towards deep learning for connectome mapping: A block decomposition framework. <b>2020</b> , 212, 116654	6
722	Gradient of Tissue Injury after Stroke: Rethinking the Infarct versus Noninfarcted Dichotomy. <b>2020</b> , 49, 32-38	3
721	Exposure to Air Pollution during Pregnancy and Childhood, and White Matter Microstructure in Preadolescents. <b>2020</b> , 128, 27005	12
720	Revisiting the Functional Anatomy of the Human Brain: Toward a Meta-Networking Theory of Cerebral Functions. <b>2020</b> , 100, 1181-1228	65
719	The White Matter Module-Hub Network of Semantics Revealed by Semantic Dementia. <b>2020</b> , 32, 1330-1347	0
718	Pyramidal tract and alternate motor fibers complementarily mediate motor compensation in patients after hemispherotomy. <b>2020</b> , 10, 1010	4
717	The Utility of Diffusion Tensor Imaging in Neuromodulation: Moving Beyond Conventional Magnetic Resonance Imaging. <b>2020</b> , 23, 427-435	3
716	Hypomania and saccadic changes in Parkinson's disease: influence of D2 and D3 dopaminergic signalling. <b>2020</b> , 6, 5	2
715	Better brain connectivity is associated with higher total fat mass and lower visceral adipose tissue in military pilots. <b>2020</b> , 10, 610	7
714	The effect of network thresholding and weighting on structural brain networks in the UK Biobank. <b>2020</b> , 211, 116443	39
713	The dot-compartment revealed? Diffusion MRI with ultra-strong gradients and spherical tensor encoding in the living human brain. <b>2020</b> , 210, 116534	39
712	The importance of the fibre tracts connecting the planum temporale in absolute pitch possessors. <b>2020</b> , 211, 116590	8
711	Diagnosing schizophrenia with network analysis and a machine learning method. <b>2020</b> , 29, e1818	8
710	Estimating Brain Connectivity With Diffusion-Weighted Magnetic Resonance Imaging: Promise and Peril. <b>2020</b> , 5, 846-854	1
709	Dynamic coupling of whole-brain neuronal and neurotransmitter systems. <b>2020</b> , 117, 9566-9576	67
708	The Relationship Between Axon Density, Myelination, and Fractional Anisotropy in the Human Corpus Callosum. <b>2020</b> , 30, 2042-2056	30
707	Mapping tracts in the human subthalamic area by 11.7T ex vivo diffusion tensor imaging. <b>2020</b> , 225, 1293-13127	

706	Late drug-resistance in mild MTLE: Can it be influenced by preexisting white matter alterations?. <b>2020</b> , 61, 924-934	5	
705	Predicting differential diagnosis between bipolar and unipolar depression with multiple kernel learning on multimodal structural neuroimaging. <b>2020</b> , 34, 28-38	13	
704	Modeling regional changes in dynamic stability during sleep and wakefulness. <b>2020</b> , 215, 116833	20	
703	Primate auditory prototype in the evolution of the arcuate fasciculus. <b>2020</b> , 23, 611-614	28	
702	Insight into the fundamental trade-offs of diffusion MRI from polarization-sensitive optical coherence tomography in ex vivo human brain. <b>2020</b> , 214, 116704	18	
701	Sex differences in the brains of capuchin monkeys ( <i>Sapajus [Cebus] apella</i> ). <b>2021</b> , 529, 327-339	0	
700	Diffusion Imaging in the Post HCP Era. <b>2021</b> , 54, 36-57	11	
699	BVAR-Connect: A Variational Bayes Approach to Multi-Subject Vector Autoregressive Models for Inference on Brain Connectivity Networks. <b>2021</b> , 19, 39-56	3	
698	Cerebral microinfarcts affect brain structural network topology in cognitively impaired patients. <b>2021</b> , 41, 105-115	3	
697	Brain Structural-Behavioral Correlates Underlying Grooved Pegboard Test Performance Across Lifespan. <b>2021</b> , 53, 373-384	0	
696	Microstructure of the Dorsal Anterior Cingulum Bundle in Very Preterm Neonates Predicts the Preterm Behavioral Phenotype at 5 Years of Age. <b>2021</b> , 89, 433-442	3	
695	Diffusion coefficient orientation distribution function for diffusion magnetic resonance imaging. <b>2021</b> , 348, 108986	1	
694	Signature of consciousness in brain-wide synchronization patterns of monkey and human fMRI signals. <b>2021</b> , 226, 117470	14	
693	Changes in Cerebral Volume and White Matter Integrity in Adults on Hemodialysis and Relationship to Cognitive Function. <b>2021</b> , 145, 35-43	3	
692	Sensitivity to myelin using model-free analysis of the water resonance line-shape in postmortem mouse brain. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 667-677	4.4	1
691	The impact of edema and fiber crossing on diffusion MRI metrics assessed in an ex vivo nerve phantom: Multi-tensor model vs. diffusion orientation distribution function. <b>2021</b> , 34, e4414	4	
690	The sensitivity of diffusion MRI to microstructural properties and experimental factors. <b>2021</b> , 347, 108951	13	
689	Diffusion tensor imaging of the visual pathway in dogs with primary angle-closure glaucoma. <b>2021</b> , 24 Suppl 1, 63-74	1	



688	Dorsolateral prefrontal circuit effective connectivity mediates the relationship between white matter structure and PASAT-3 performance in multiple sclerosis. <b>2021</b> , 42, 495-509	1
687	Intranasal mesenchymal stem cell therapy to boost myelination after encephalopathy of prematurity. <b>2021</b> , 69, 655-680	9
686	Preterm birth leads to impaired rich-club organization and fronto-paralimbic/limbic structural connectivity in newborns. <b>2021</b> , 225, 117440	7
685	Detecting axonal injury in individual patients after traumatic brain injury. <b>2021</b> , 144, 92-113	18
684	Effects of Repetitive Transcranial Magnetic Stimulation on Working Memory Performance and Brain Structure in People With Schizophrenia Spectrum Disorders: A Double-Blind, Randomized, Sham-Controlled Trial. <b>2021</b> , 6, 449-458	0
683	In vivo detection of microstructural spinal cord lesions in dogs with degenerative myelopathy using diffusion tensor imaging. <b>2021</b> , 35, 352-362	1
682	Entrack: Probabilistic Spherical Regression with Entropy Regularization for Fiber Tractography. <b>2021</b> , 129, 656-680	1
681	Brain network reorganisation and spatial lesion distribution in systemic lupus erythematosus. <b>2021</b> , 30, 285-298	0
680	Differential spatial patterns of structural connectivity of amygdala nuclei with orbitofrontal cortex. <b>2021</b> , 42, 1391-1405	4
679	Microstructural changes in the brain after long-term post-concussion symptoms: A randomized trial. <b>2021</b> , 99, 872-886	2
678	Structural and Functional Brain Parameters Related to Cognitive Performance Across Development: Replication and Extension of the Parieto-Frontal Integration Theory in a Single Sample. <b>2021</b> , 31, 1444-1463	9
677	White matter but not grey matter predicts change in reading skills after intervention. <b>2021</b> , 27, 224-244	1
676	Two Neural Networks for Laughter: A Tractography Study. <b>2021</b> , 31, 899-916	11
675	dMRI: Diffusion Magnetic Resonance Imaging as a Window onto Structural Brain Networks and White Matter Microstructure. <b>2021</b> , 105-134	
674	Neuroimaging Advances in Diagnosis and Differentiation of HIV, Comorbidities, and Aging in the cART Era. <b>2021</b> , 50, 105-143	
673	White Matter Pathology. <b>2021</b> , 29-46	1
672	White Matter Matters: Unraveling Violence in Psychosis and Psychopathy. <b>2021</b> , 2,	2
671	Functional MRI and Diffusion Tensor Imaging. <b>2021</b> , 77-102	

- 670 DW-MRI Microstructure Model of Models Captured Via Single-Shell Bottleneck Deep Learning. **2021**, 147-157 0
- 669 Variability of white matter anatomy in the subcallosal cingulate area. **2021**, 42, 2005-2017 5
- 668 Toward Optimized and Predictive Connectomics at Scale.
- 667 Impact of moderate and late preterm birth on neurodevelopment, brain development and respiratory health at school age: protocol for a longitudinal cohort study (LaPrem study). **2021**, 11, e044491 0
- 666 Single Encoding Diffusion MRI: A Probe to Brain Anisotropy. **2021**, 171-191
- 665 Structural connectivity of the human massa intermedia: A probabilistic tractography study. **2021**, 42, 1794-1804 2
- 664 Direct Reconstruction of Crossing Muscle Fibers in the Human Tongue Using a Deep Neural Network. **2021**, 69-80 1
- 663 Physics of Advanced Diffusion Imaging. **2021**, 103-110
- 662 Cholinergic white matter pathways in dementia with Lewy bodies and Alzheimer's disease. **2021**, 2
- 661 White matter anisotropy and response to cognitive behavior therapy for posttraumatic stress disorder. **2021**, 11, 14 0
- 660 The Relations Between Physical Activity Level, Executive Function, and White Matter Microstructure in Older Adults. **2021**, 18, 1286-1298 1
- 659 Hyperglycemia associated with acute brain injury in neonatal encephalopathy. **2021**, 32, 102835 0
- 658 Hippocampal subfield imaging and fractional anisotropy show parallel changes in Alzheimer's disease tau progression using simultaneous tau-PET/MRI at 3T. **2021**, 13, e12218 3
- 657 An Integrative Approach to Study Structural and Functional Network Connectivity in Epilepsy Using Imaging and Signal Data. **2020**, 14, 491403 1
- 656 Nonparametric model for a tensor field based on high angular resolution diffusion imaging (HARDI). **2021**, 24, 445-476 2
- 655 Traumatic brain injury: a comparison of diffusion and volumetric magnetic resonance imaging measures. **2021**, 3, fcab006 1
- 654 Intra-Areal Visual Topography in Primate Brains Mapped with Probabilistic Tractography of Diffusion-Weighted Imaging. **2021**,
- 653 Temporo-cerebellar connectivity underlies timing constraints in audition.

652	Brain network analysis reveals that amyloidopathy affects comorbid cognitive dysfunction in older adults with depression. <b>2021</b> , 11, 4299	2
651	Multi-Tissue Multi-Compartment models of diffusion MRI.	0
650	Diffusion Tensor Imaging Detects Acute Pathology-Specific Changes in the P301L Tauopathy Mouse Model Following Traumatic Brain Injury. <b>2021</b> , 15, 611451	2
649	Reorganization of brain structural networks in aging: A longitudinal study. <b>2021</b> , 99, 1354-1376	2
648	The Neurocognitive Effects of and Cognitive Training on Markers of Brain Microstructure in Healthy Older Adults. <b>2021</b> , 13, 638109	1
647	[Aphasia associated with lacunar infarctions]. <b>2021</b> , 92, 802-808	
646	Microstructural Changes in the Left Mesocorticolimbic Pathway are Associated with the Comorbid Development of Fatigue and Depression in Multiple Sclerosis. <b>2021</b> , 31, 501-507	3
645	Alterations of Brain Structural Network Connectivity in Type 2 Diabetes Mellitus Patients With Mild Cognitive Impairment. <b>2020</b> , 12, 615048	4
644	Resolving bundle-specific intra-axonal T values within a voxel using diffusion-relaxation tract-based estimation. <b>2021</b> , 227, 117617	11
643	Precision Diffusion Imaging.	
642	The social cerebellum: A large-scale investigation of functional and structural specificity and connectivity.	
641	Diffusion interactions between crossing fibers of the brain. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 429-441	4-4
640	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: chronicles of the MEMENTO challenge.	2
639	Interpolation and Averaging of Diffusion MRI Multi-Compartment Models. <b>2021</b> , 40, 916-927	
638	Prediction of Lower Grade Insular Glioma Molecular Pathology Using Diffusion Tensor Imaging Metric-Based Histogram Parameters. <b>2021</b> , 11, 627202	2
637	Tractography patterns of pedunculopontine nucleus deep brain stimulation. <b>2021</b> , 128, 659-670	0
636	qModel: A plug-and-play model-based reconstruction for highly accelerated multi-shot diffusion MRI using learned priors. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 835-851	4-4 2
635	Global mean diffusivity: A radiomarker discriminating good outcome long term after traumatic brain injury. <b>2021</b> , 64, 101433	0

634	White Matter Connectivity and Gray Matter Volume Changes Following Donepezil Treatment in Patients With Mild Cognitive Impairment: A Preliminary Study Using Probabilistic Tractography. <b>2020</b> , 12, 604940	3
633	Diffusion imaging changes in the treated tract following focused ultrasound thalamotomy for tremor. <b>2021</b> , 1, 100010	0
632	White matter alteration in adults with prelingual deafness: A TBSS and SBM analysis of fractional anisotropy data. <b>2021</b> , 148, 105676	1
631	Tract-specific statistics based on diffusion-weighted probabilistic tractography.	
630	Chronic musculoskeletal impairment is associated with alterations in brain regions responsible for the production and perception of movement. <b>2021</b> , 599, 2255-2272	3
629	Functional and structural brain connectivity in congenital deafness. <b>2021</b> , 226, 1323-1333	2
628	Study Protocol: The Heart and Brain Study. <b>2021</b> , 12, 643725	1
627	Structural brain connectivity in children with developmental dyscalculia.	
626	Validation of Olfactory Network Based on Brain Structural Connectivity and Its Association With Olfactory Test Scores. <b>2021</b> , 15, 638053	1
625	Splenial white matter integrity is associated with memory impairments in posterior cortical atrophy. <b>2021</b> , 3, fcab060	0
624	Transcriptome Regulation by Oncogenic ALK Pathway in Mammalian Cortical Development Revealed by Single-Cell RNA Sequencing. <b>2021</b> , 31, 3911-3924	1
623	GAMER-MRI in Multiple Sclerosis Identifies the Diffusion-Based Microstructural Measures That Are Most Sensitive to Focal Damage: A Deep-Learning-Based Analysis and Clinico-Biological Validation. <b>2021</b> , 15, 647535	1
622	A quality control pipeline for probabilistic reconstruction of white-matter pathways. <b>2021</b> , 353, 109099	0
621	Comparison of structural MRI brain measures between 1.5T and 3T: data from the Lothian Birth Cohort 1936.	
620	Strengthened structure-function relationships of the corticospinal tract by free water correction after stroke. <b>2021</b> , 3, fcab034	2
619	Rescue of maternal immune activation-induced behavioral abnormalities in adult mouse offspring by pathogen-activated maternal T cells. <b>2021</b> , 24, 818-830	9
618	The impact of susceptibility correction on diffusion metrics in adolescents. <b>2021</b> , 51, 1471-1480	0
617	An MRI protocol for anatomical and functional evaluation of the California sea lion brain. <b>2021</b> , 353, 109097	1

616	White matter microstructural differences underlying beta oscillations during speech in adults who stutter. <b>2021</b> , 215, 104921	1
615	Supplementary and Premotor Aspects of the Corticospinal Tract Show Links with Restricted and Repetitive Behaviors in Middle-Aged Adults with Autism Spectrum Disorder. <b>2021</b> , 31, 3962-3972	2
614	Myelin development in visual scene-network tracts beyond late childhood: A multimethod neuroimaging study. <b>2021</b> , 137, 18-34	3
613	Functional and diffusion MRI reveal the neurophysiological basis of neonates' noxious-stimulus evoked brain activity. <b>2021</b> , 12, 2744	4
612	Comparison of structural MRI brain measures between 1.5 and 3T: Data from the Lothian Birth Cohort 1936. <b>2021</b> , 42, 3905-3921	2
611	A causal role for the pulvinar in coordinating task-independent cortico-cortical interactions. <b>2021</b> , 529, 3772-3784	0
610	Limbic and Executive Meso- and Nigrostriatal Tracts Predict Impulsivity Differences in Attention-Deficit/Hyperactivity Disorder. <b>2021</b> ,	1
609	Structural alterations in cortical and thalamocortical white matter tracts after recovery from prefrontal cortex lesions in macaques. <b>2021</b> , 232, 117919	1
608	Localization and Identification of Brain Microstructural Abnormalities in Paediatric Concussion. <b>2021</b> , 15, 657374	1
607	Diffusion-Weighted Imaging of Intelligence. <b>2021</b> , 191-209	0
606	The relationship between white matter microstructure, cardiovascular fitness, gross motor skills, and neurocognitive functioning in children. <b>2021</b> , 99, 2201-2215	3
605	Fixel-Based Analysis and Free Water Corrected DTI Evaluation of HIV Associated Neurocognitive Disorders.	
604	Neuroimaging Methods and Findings. <b>2021</b> , 189-324	
603	Motor and higher-order functions topography of the human dentate nuclei identified with tractography and clustering methods. <b>2021</b> , 42, 4348-4361	3
602	Parcellation of the Hippocampus According to Its Connection Probability with Prefrontal Cortex Subdivisions in a Malaysian Malay Population: Preliminary Findings. <b>2021</b> , 28, 65-76	1
601	Relevant Biophysical Parameters Discrimination along Corticospinal Tract in Patients with Stroke Using Convolutional Neural Networks. 51, 95-103	
600	Fiber orientation distribution from diffusion MRI: Effects of inaccurate response function calibration. <b>2021</b> , 31, 1082-1098	0
599	Left lateralization of neonatal caudate microstructure affects emerging language development at 24 months. <b>2021</b> , 54, 4621-4637	1

598	Prevalence of white matter pathways coming into a single diffusion MRI voxel orientation: the bottleneck issue in tractography.	0
597	A Progressive Approach for Uncertainty Visualization in Diffusion Tensor Imaging. <b>2021</b> , 40, 411-422	1
596	Uncertainty-aware Visualization in Medical Imaging - A Survey. <b>2021</b> , 40, 665-689	3
595	Variability in white matter structure relates to hallucination proneness.	
594	Visual interpretation of CNN decision-making process using Simulated Brain MRI. <b>2021</b> ,	0
593	Using diffusion MRI data acquired with ultra-high gradients to improve tractography in routine-quality data.	1
592	Longitudinal Changes in the Sensorimotor Pathways of Very Preterm Infants During the First Year of Life With and Without Intervention: A Pilot Study. <b>2021</b> , 24, 448-455	0
591	Don't think, feel: basal ganglia-cortical connectivity underlies self-regulation of brain oscillations in humans.	
590	Comparison of corticospinal tract integrity measures extracted from standard versus native space in chronic stroke. <b>2021</b> , 359, 109216	1
589	Diffusion magnetic resonance imaging data: development of methods and tools for diagnosis and treatment of brain diseases. <b>2021</b> , 20, 191-201	
588	A structural enriched functional network: An application to predict brain cognitive performance. <b>2021</b> , 71, 102026	6
587	Fornix white matter microstructure differentially predicts false recollection rates in older and younger adults. <b>2021</b> , 157, 107848	0
586	Quantifying myelin in crossing fibers using diffusion-prepared phase imaging: Theory and simulations. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 2618-2634	4.4 1
585	Structural connectivity-based segmentation of the human entorhinal cortex.	0
584	Topological Alterations in White Matter Structural Networks in Blepharospasm. <b>2021</b> ,	2
583	Improving the predictive potential of diffusion MRI in schizophrenia using normative models-Towards subject-level classification. <b>2021</b> , 42, 4658-4670	3
582	Changes in brain metabolites and resting-state connectivity in collegiate basketball players as a function of play time. <b>2021</b> , 31, 1146-1155	
581	Diffusion MRI tractography for neurosurgery: the basics, current state, technical reliability and challenges. <b>2021</b> , 66,	5

580	The Social Cerebellum: A Large-Scale Investigation of Functional and Structural Specificity and Connectivity. <b>2021</b> ,	4
579	Local and distant responses to single pulse electrical stimulation reflect different forms of connectivity. <b>2021</b> , 237, 118094	4
578	Corticospinal Tract Microstructure Correlates With Beta Oscillatory Activity in the Primary Motor Cortex After Stroke. <b>2021</b> , 52, 3839-3847	0
577	SPHERIOUSLY? The challenges of estimating sphere radius non-invasively in the human brain from diffusion MRI. <b>2021</b> , 237, 118183	4
576	A Structural Connectivity Disruption One Decade before the Typical Age for Dementia: A Study in Healthy Subjects with Family History of Alzheimer's Disease. <b>2021</b> , 2, tgab051	0
575	Disconnectome of the migraine brain: a "connectopathy" model. <b>2021</b> , 22, 102	2
574	A machine learning-based method for estimating the number and orientations of major fascicles in diffusion-weighted magnetic resonance imaging. <b>2021</b> , 72, 102129	4
573	Diffusion magnetic resonance imaging reveals tract-specific microstructural correlates of electrophysiological impairments in non-myelopathic and myelopathic spinal cord compression. <b>2021</b> , 28, 3784-3797	1
572	Contributions of Brain Function and Structure to Three Different Domains of Cognitive Control in Normal Aging. <b>2021</b> , 1-22	3
571	Blood Pressure Determinants of Cerebral White Matter Hyperintensities and Microstructural Injury: UK Biobank Cohort Study. <b>2021</b> , 78, 532-539	3
570	Dietary factors and MRI metrics in early Multiple Sclerosis. <b>2021</b> , 53, 103031	2
569	Half Way There: Theoretical Considerations for Power Laws and Sticks in Diffusion MRI for Tissue Microstructure. <b>2021</b> , 9, 1871	
568	Structure, function and connectivity fingerprints of the frontal eye field versus the inferior frontal junction: A comprehensive comparison. <b>2021</b> , 54, 5462-5506	3
567	Diffusion tensor-based analysis of white matter in the healthy aging canine brain. <b>2021</b> , 105, 129-136	0
566	Temporo-cerebellar connectivity underlies timing constraints in audition. <b>2021</b> , 10,	2
565	Prefrontal connectomics: from anatomy to human imaging. <b>2022</b> , 47, 20-40	6
564	Age-dependent relationship of cardiorespiratory fitness and white matter integrity. <b>2021</b> , 105, 48-56	0
563	A critical review of connectome validation studies. <b>2021</b> , 34, e4605	2

562	Aging-Related Differences in Structural and Functional Interhemispheric Connectivity. <b>2021</b> ,	
561	Multi-modal imaging of a single mouse brain over five orders of magnitude of resolution. <b>2021</b> , 238, 118250	2
560	Disruptions in white matter microstructure associated with impaired visual associative memory in schizophrenia-spectrum illness. <b>2021</b> , 1	0
559	Using connectomics for predictive assessment of brain parcellations. <b>2021</b> , 238, 118170	4
558	On the potential for mapping apparent neural soma density via a clinically viable diffusion MRI protocol. <b>2021</b> , 239, 118303	4
557	On the generalizability of diffusion MRI signal representations across acquisition parameters, sequences and tissue types: Chronicles of the MEMENTO challenge. <b>2021</b> , 240, 118367	3
556	MESMERISED: Super-accelerating T relaxometry and diffusion MRI with STEAM at 7 T for quantitative multi-contrast and diffusion imaging. <b>2021</b> , 239, 118285	2
555	Regional White Matter Diffusion Changes Associated with the Cumulative Tensile Strain and Strain Rate in Nonconcussed Youth Football Players. <b>2021</b> , 38, 2763-2771	1
554	Learning to estimate the fiber orientation distribution function from diffusion-weighted MRI. <b>2021</b> , 239, 118316	4
553	Pain differences in neurite orientation dispersion and density imaging measures among community-dwelling older adults. <b>2021</b> , 154, 111520	0
552	Diffusion MRI and anatomic tracing in the same brain reveal common failure modes of tractography. <b>2021</b> , 239, 118300	17
551	Identifying brain regions supporting amygdalar functionality: Application of a novel graph theory technique. <b>2021</b> , 244, 118614	1
550	Musical Expertise Shapes Functional and Structural Brain Networks Independent of Absolute Pitch Ability. <b>2021</b> , 41, 2496-2511	3
549	Replicable association between human cytomegalovirus infection and reduced white matter fractional anisotropy in major depressive disorder. <b>2021</b> , 46, 928-938	5
548	Increased structural connectivity of thalamic stimulation sites to motor cortex relates to tremor suppression. <b>2021</b> , 30, 102628	1
547	A Spherical Convolutional Neural Network for White Matter Structure Imaging via dMRI. <b>2021</b> , 529-539	2
546	Connectivity Patterns of Deep Brain Stimulation Targets in Patients with Gilles de la Tourette Syndrome. <b>2021</b> , 11,	3
545	Brain/MINDS beyond human brain MRI project: A protocol for multi-level harmonization across brain disorders throughout the lifespan. <b>2021</b> , 30, 102600	10



544	Clinical correlates of white matter tract degeneration in progressive supranuclear palsy. <b>2011</b> , 68, 753-60	90
543	Uncertainty in white matter fiber tractography. <b>2005</b> , 8, 107-14	15
542	MR diffusion-based inference of a fiber bundle model from a population of subjects. <b>2005</b> , 8, 196-204	7
541	An Introduction to Computational Diffusion MRI: the Diffusion Tensor and Beyond. <b>2006</b> , 83-106	24
540	Fuzzy Fibers: Uncertainty in dMRI Tractography. <b>2014</b> , 79-92	6
539	Diffusion Imaging in Tremor. <b>2013</b> , 391-401	2
538	Finite Element Modelling Framework for Electroconvulsive Therapy and Other Transcranial Stimulations. <b>2019</b> , 27-47	1
537	Imaging: Patient Selection, Targeting, and Outcome Biomarkers. <b>2020</b> , 511-521	1
536	A Framework to Compare Tractography Algorithms Based on Their Performance in Predicting Functional Networks. <b>2013</b> , 211-221	2
535	Uncertainty in Tractography via Tract Confidence Regions. <b>2014</b> , 129-138	2
534	Effect of Data Acquisition and Analysis Method on Fiber Orientation Estimation in Diffusion MRI. <b>2014</b> , 2013, 13-24	2
533	Model-Based Super-Resolution of Diffusion MRI. <b>2014</b> , 25-34	6
532	Sparse Bayesian Inference of White Matter Fiber Orientations from Compressed Multi-resolution Diffusion MRI. <b>2015</b> , 9349, 117-124	4
531	Groupwise Structural Parcellation of the Cortex: A Sound Approach Based on Logistic Models. <b>2017</b> , 99-112	3
530	Bayesian Heteroscedastic Regression for Diffusion Tensor Imaging. <b>2017</b> , 257-282	4
529	Multi-fiber reconstruction from diffusion MRI using mixture of Wisharts and sparse deconvolution. <b>2007</b> , 20, 384-95	26
528	Probabilistic fiber tracking using particle filtering. <b>2007</b> , 10, 144-52	8
527	Multivariate statistical analysis of whole brain structural networks obtained using probabilistic tractography. <b>2008</b> , 11, 486-93	8

526	Neural tractography using an unscented Kalman filter. <b>2009</b> , 21, 126-38	24
525	Cortical correspondence with probabilistic fiber connectivity. <b>2009</b> , 21, 651-63	16
524	Two-compartment models of the diffusion MR signal in brain white matter. <b>2009</b> , 12, 329-36	10
523	Methods for tractography-driven surface registration of brain structures. <b>2009</b> , 12, 705-12	4
522	Shape modelling for tract selection. <b>2009</b> , 12, 150-7	9
521	Multi-parametric Classification of Traumatic Brain Injury Patients Using Automatic Analysis of Quantitative MRI Scans. <b>2010</b> , 51-59	3
520	Multi-diffusion-tensor fitting via spherical deconvolution: a unifying framework. <b>2010</b> , 13, 674-81	24
519	High-fidelity meshes from tissue samples for diffusion MRI simulations. <b>2010</b> , 13, 404-11	17
518	Alzheimer Disease Classification on Diffusion Weighted Imaging Features. <b>2011</b> , 120-127	1
517	Adaptive Riemannian metrics for improved geodesic tracking of white matter. <b>2011</b> , 22, 13-24	15
516	A probabilistic framework to infer brain functional connectivity from anatomical connections. <b>2011</b> , 22, 296-307	16
515	Connectivity Analysis of Hippocampus in Alzheimer's Brain Using Probabilistic Tractography. <b>2012</b> , 521-528	2
514	Modeling Connectivity in Health and Disease: Examples from the Motor System. <b>2013</b> , 213-226	1
513	Joint fractional segmentation and multi-tensor estimation in diffusion MRI. <b>2013</b> , 23, 340-51	2
512	Beyond crossing fibers: tractography exploiting sub-voxel fibre dispersion and neighbourhood structure. <b>2013</b> , 23, 402-13	15
511	Model selection and estimation of multi-compartment models in diffusion MRI with a Rician noise model. <b>2013</b> , 23, 644-55	3
510	The importance of being dispersed: A ranking of diffusion MRI models for fibre dispersion using in vivo human brain data. <b>2013</b> , 16, 74-81	11
509	The Estimation of Free-Water Corrected Diffusion Tensors. <b>2014</b> , 249-270	2

508	Fast In Vivo High-Resolution Diffusion MRI of the Human Cervical Spinal Cord Microstructure. <b>2019</b> , 3-7	1
507	Comparing Brain Connections in Different Species using Diffusion Weighted Imaging. <b>2009</b> , 445-460	2
506	Diffusion-weighted imaging (DWI) tractography and Alzheimer's disease. <b>2020</b> , 313-325	1
505	Local striatal reward signals can be predicted from corticostriatal connectivity. <b>2017</b> , 159, 9-17	10
504	Topographic organization of connections between prefrontal cortex and mediodorsal thalamus: Evidence for a general principle of indirect thalamic pathways between directly connected cortical areas. <b>2019</b> , 189, 832-846	16
503	Predicting reading ability from brain anatomy and function: From areas to connections. <b>2020</b> , 218, 116966	2
502	Brain Structural Connectivity Predicts Brain Functional Complexity: Diffusion Tensor Imaging Derived Centrality Accounts for Variance in Fractal Properties of Functional Magnetic Resonance Imaging Signal. <b>2020</b> , 438, 1-8	6
501	Vestibular agnosia in traumatic brain injury and its link to imbalance. <b>2021</b> , 144, 128-143	9
500	Individual Cortical Entropy Profile: Test-Retest Reliability, Predictive Power for Cognitive Ability, and Neuroanatomical Foundation. <b>2020</b> , 1, tgaa015	7
499	Altered Development of White Matter in Youth at High Familial Risk for Bipolar Disorder. <b>2010</b> , 49, 1249-1259	16
498	Age differences in brain white matter microstructure in UK Biobank (N = 3,513).	2
497	Consistent local dynamics in the brain across sessions are revealed by whole brain modeling of resting state activity.	2
496	Sex differences in the adult human brain: Evidence from 5,216 UK Biobank participants.	9
495	Image Processing and Quality Control for the first 10,000 Brain Imaging Datasets from UK Biobank.	6
494	Brain/MINDS Beyond Human Brain MRI Project: A Protocol for Multi-Site Harmonization across Brain Disorders Throughout the Lifespan.	2
493	Microstructural characterization and validation of a 3D printed axon-mimetic phantom for diffusion MRI.	4
492	Musical expertise shapes functional and structural brain networks independent of absolute pitch ability.	0
491	Population modeling with machine learning can enhance measures of mental health.	2

490	Multi-modal imaging of a single mouse brain over five orders of magnitude of resolution.	1
489	SPHERIOUSLY? The challenges of estimating spherical pore size non-invasively in the human brain from diffusion MRI.	1
488	Exploring the limits of ComBat method for multi-site diffusion MRI harmonization.	1
487	MaPPeRTrac: A Massively Parallel, Portable, and Reproducible Tractography Pipeline.	0
486	Causal explanation of individual differences in human sensorimotor memory formation.	1
485	Robust and fast Monte Carlo Markov Chain sampling of diffusion MRI microstructure models.	1
484	Pulvinar influences parietal delay activity and information transmission between dorsal and ventral visual cortex in macaques.	1
483	Cross-species cortical alignment identifies different types of neuroanatomical reorganization in the temporal lobe of higher primates.	5
482	The effect of network thresholding and weighting on structural brain networks in the UK Biobank.	2
481	Fast quantification of uncertainty in non-linear diffusion MRI models for artifact detection and more power in group studies.	2
480	Early life maturation of human visual system white matter is altered by monocular enucleation.	1
479	The Impact of Edema and Fiber Crossing on Diffusion MRI Metrics: DBSI vs. Diffusion ODF.	1
478	Brain Myelin Water Fraction and Diffusion Tensor Imaging Atlases for 9-10 Year-Old Children. <b>2020</b> , 30, 150-160	7
477	Functional magnetic resonance imaging in disorders of consciousness: preliminary results of an innovative analysis of brain connectivity. <b>2015</b> , 30, 193-201	8
476	Clinical utility of structural connectomics in predicting memory in temporal lobe epilepsy. <b>2020</b> , 94, e2424-e2435	35
475	Bayesian Estimation of Conditional Independence Graphs Improves Functional Connectivity Estimates. <b>2015</b> , 11, e1004534	13
474	Adolescent engagement in dangerous behaviors is associated with increased white matter maturity of frontal cortex. <b>2009</b> , 4, e6773	62
473	Altered anatomical network in early blindness revealed by diffusion tensor tractography. <b>2009</b> , 4, e7228	111

472	Diffusion tensor imaging and decision making in cocaine dependence. <b>2010</b> , 5, e11591	83
471	Impaired structural motor connectome in amyotrophic lateral sclerosis. <b>2011</b> , 6, e24239	111
470	Target identification for stereotactic thalamotomy using diffusion tractography. <b>2012</b> , 7, e29969	26
469	Hemispheric asymmetry in white matter connectivity of the temporoparietal junction with the insula and prefrontal cortex. <b>2012</b> , 7, e35589	60
468	White matter differences between healthy young ApoE4 carriers and non-carriers identified with tractography and support vector machines. <b>2012</b> , 7, e36024	17
467	The influence of spatial registration on detection of cerebral asymmetries using voxel-based statistics of fractional anisotropy images and TBSS. <b>2012</b> , 7, e36851	35
466	Parametric representation of multiple white matter fascicles from cube and sphere diffusion MRI. <b>2012</b> , 7, e48232	52
465	Asymmetries of the arcuate fasciculus in monozygotic twins: genetic and nongenetic influences. <b>2013</b> , 8, e52315	30
464	Diminished activation of motor working-memory networks in Parkinson's disease. <b>2013</b> , 8, e61786	22
463	White matter deficits in psychopathic offenders and correlation with factor structure. <b>2013</b> , 8, e72375	37
462	Characterizing brain structures and remodeling after TBI based on information content, diffusion entropy. <b>2013</b> , 8, e76343	15
461	Spatial hyperschematia without spatial neglect after insulo-thalamic disconnection. <b>2013</b> , 8, e79938	3
460	MR scanner systems should be adequately characterized in diffusion-MRI of the breast. <b>2014</b> , 9, e86280	20
459	Masking level differences--a diffusion tensor imaging and functional MRI study. <b>2014</b> , 9, e88466	5
458	Functional reorganization of the locomotor network in Parkinson patients with freezing of gait. <b>2014</b> , 9, e100291	134
457	Fractional anisotropy in corpus callosum is associated with facilitation of motor representation during ipsilateral hand movements. <b>2014</b> , 9, e104218	11
456	Genetics of microstructure of the corpus callosum in older adults. <b>2014</b> , 9, e113181	8
455	Combined EEG/MEG can outperform single modality EEG or MEG source reconstruction in presurgical epilepsy diagnosis. <b>2015</b> , 10, e0118753	59

454	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. <b>2015</b> , 10, e0138910	21
453	NODDI and Tensor-Based Microstructural Indices as Predictors of Functional Connectivity. <b>2016</b> , 11, e0153404	37
452	Striatum-Centered Fiber Connectivity Is Associated with the Personality Trait of Cooperativeness. <b>2016</b> , 11, e0162160	2
451	Free water: A marker of age-related modifications of the cingulum white matter and its association with cognitive decline. <b>2020</b> , 15, e0242696	4
450	Refinement by integration: aggregated effects of multimodal imaging markers on adult ADHD. <b>2017</b> , 42, 386-394	25
449	White-Matter Pathways for Statistical Learning of Temporal Structures. <b>2018</b> , 5,	2
448	Tract-Specific White Matter Correlates of Age-Related Reward Devaluation Deficits in Macaque Monkeys. <b>2018</b> , 3, 13-26	7
447	Assessment of optic nerve and optic tract alterations in patients with orbital space-occupying lesions using probabilistic diffusion tractography. <b>2019</b> , 12, 1304-1310	4
446	Six Months Guided Exercise Therapy Improves Motor Abilities and White Matter Connectivity in Children with Cerebral Palsy. <b>2020</b> , 27, 90-100	0
445	Comparison of in vivo and ex vivo diffusion tensor imaging in rhesus macaques at short and long diffusion times. <b>2011</b> , 5, 172-8	15
444	Connectivity as a Predictor of Responsiveness to Transcranial Direct Current Stimulation in People with Stroke: Protocol for a Double-Blind Randomized Controlled Trial. <b>2018</b> , 7, e10848	5
443	Automatic extraction of the cingulum bundle in diffusion tensor tract-specific analysis: feasibility study in Parkinson's disease with and without dementia. <b>2013</b> , 12, 201-13	2
442	Characterizing tumor invasiveness of glioblastoma using multiparametric magnetic resonance imaging. <b>2019</b> , 132, 1465-1472	25
441	Structure and function of complex brain networks. <b>2013</b> , 15, 247-62	442
440	Amiloride, fluoxetine or riluzole to reduce brain volume loss in secondary progressive multiple sclerosis: the MS-SMART four-arm RCT. <b>2020</b> , 7, 1-72	6
439	Diffusion tensor imaging and white matter abnormalities in patients with disorders of consciousness. <b>2014</b> , 8, 1028	19
438	A Bayesian Constraint Stochastic Framework for DT-MRI White Matter Fiber Tractography. <b>2010</b> , 32, 1786-1791	1
437	The physical and biological basis of quantitative parameters derived from diffusion MRI. <b>2012</b> , 2, 254-65	95

436	Strengths and limitations of tractography methods to identify the optic radiation for epilepsy surgery. <b>2015</b> , 5, 288-99	23
435	Detecting white matter alterations in multiple sclerosis using advanced diffusion magnetic resonance imaging. <b>2019</b> , 14, 114-123	13
434	Diffusion tensor tractography of the arcuate fasciculus in patients with brain tumors: Comparison between deterministic and probabilistic models. <b>2013</b> , 6, 192-200	29
433	Diffusion Tensor Imaging and Its Application to Traumatic Brain Injury: Basic Principles and Recent Advances. <b>2012</b> , 02, 137-161	7
432	Serum Neurofilament Light Chain Levels Are Related to Small Vessel Disease Burden. <b>2018</b> , 20, 228-238	54
431	Dichotomous organization of amygdala/temporal-prefrontal bundles in both humans and monkeys. <b>2019</b> , 8,	31
430	Noninvasive quantification of axon radii using diffusion MRI. <b>2020</b> , 9,	67
429	Cross-species cortical alignment identifies different types of anatomical reorganization in the primate temporal lobe. <b>2020</b> , 9,	37
428	Genome-wide discovered psychosis-risk gene ZNF804A impacts on white matter microstructure in health, schizophrenia and bipolar disorder. <b>2016</b> , 4, e1570	21
427	Alterations in fiber pathways reveal brain tumor typology: a diffusion tractography study. <b>2014</b> , 2, e497	15
426	Interhemispheric Difference Images from Postoperative Diffusion Tensor Imaging of Gliomas. <b>2016</b> , 8, e817	2
425	Procrustes Analysis for Diffusion Tensor Image Processing. <b>2013</b> , 108-113	3
424	Use of probabilistic tractography to provide reliable distinction of the motor and sensory thalamus for prospective targeting during asleep deep brain stimulation. <b>2021</b> , 1-10	2
423	On the brain networks organization of individuals with high versus average fluid intelligence: a combined DTI and MEG study.	0
422	Association of brain white matter microstructure with cognitive performance in major depressive disorder and healthy controls: a diffusion-tensor imaging study. <b>2021</b> ,	0
421	Mechanisms of Network Changes in Cognitive Impairment in Multiple Sclerosis. <b>2021</b> , 97, e1886-e1897	3
420	Population modeling with machine learning can enhance measures of mental health. <b>2021</b> , 10,	5
419	Combination of structural and functional connectivity explains unique variation in specific domains of cognitive function..	0

418	Diffusion Tensor Imaging of the Olfactory System in Older Adults With and Without Hyposmia. <b>2021</b> , 13, 648598	1
417	Tractography methods and findings in brain tumors and traumatic brain injury. <b>2021</b> , 245, 118651	3
416	Nerve Pathways with MR Tractography. <b>2006</b> , 79-90	
415	Insights into Brain Connectivity Using Quantitative MRI Measures of White Matter. <b>2007</b> , 221-271	
414	Ventrolateral and Medial Frontal Contributions to Decision-Making and Action Selection. <b>2007</b> , 129-158	1
413	Visualizing Anisotropic Structures in Brain Based on Diffusion Tensor Tractography. <b>2008</b> , 128, 20-22	
412	A Mixture of Wisharts (MOW) Model for Multifiber Reconstruction. <b>2009</b> , 39-56	3
411	Current Perspectives on Imaging Language. <b>2009</b> , 123-139	1
410	Integration of Measures of Functional and Structural MRI. <b>2009</b> , 785-809	
409	Diffusion MRI Tractography of Crossing Fibers by Cone-Beam ODF Regularization. <b>2009</b> , 412-421	
408	Statistical analysis of structural brain connectivity. <b>2010</b> , 13, 101-8	2
407	DTI Connectivity by Segmentation. <b>2010</b> , 200-210	0
406	Processing and Visualization of Diffusion MRI. <b>2010</b> , 403-424	1
405	A novel white matter fibre tracking algorithm using probabilistic tractography and average curves. <b>2010</b> , 13, 666-73	0
404	Diffusion-Tensor Imaging and Behavioral Medicine. <b>2011</b> , 49-66	
403	Ant Colony Optimization for Global White Matter Fiber Tracking. <b>2011</b> , 267-276	
402	Fiber Tract Visualization and Intraoperative Functional Neuronavigation(Operation Suite in 21st Century). <b>2011</b> , 20, 247-253	
401	Mapping white matter pathways with diffusion imaging tractography: focus on neurosurgical applications. <b>2011</b> , 61-75	1



- 400 Radial structure in the preterm cortex; persistence of the preterm phenotype at term equivalent age?. **2012**, 15, 256-63 1
- 399 Relating Brain Functional Connectivity to Anatomical Connections: Model Selection. **2012**, 178-185 1
- 398 Functional and Structural MRI: Theoretical Background and Practical Aspects. **2012**, 269-317
- 397 Templates and Analysis Methods for Small Animal High-resolution Diffusion Magnetic Resonance Imaging\*. **2012**, 39, 513-518
- 396 From Diffusion MRI to Brain Connectomics. **2013**, 193-234 2
- 395 Adaptive multi-modal particle filtering for probabilistic white matter tractography. **2013**, 23, 594-606 1
- 394 DTI and Tractography in the Autistic Brain. **2013**, 267-279
- 393 Quantifying Brain Morphology Using Diffusion Imaging. **2013**, 41-84
- 392 Noise Model Selection for Multichannel Diffusion-Weighted MRI. **2014**, 149-153
- 391 Joint Super-Resolution Using Only One Anisotropic Low-Resolution Image per q-Space Coordinate. **2014**, 181-191 1
- 390 Interactive Volume-Based Visualization and Exploration for Diffusion Fiber Tracking. **2014**, 126-131
- 389 Visualization in Connectomics. **2014**, 221-245 6
- 388 White matter microstructure predicts focal and broad functional brain dedifferentiation in normal aging.
- 387 Changes in brain morphology and working memory capacity over childhood.
- 386 The visual white matter: The application of diffusion MRI and fiber tractography to vision science. 0
- 385 Single or Multi-Frequency generators in on-going brain activity: a mechanistic whole-brain model of empirical MEG data. 0
- 384 Transcriptional signatures of connectomic subregions of the human striatum.
- 383 Bayesian non-central chi regression for neuroimaging. 1

- 382 Noninvasive Imaging Technologies in Primates. **2017**, 441-470 1
- 381 Diffusion MRI Anisotropy: Modeling, Analysis and Interpretation. **2017**, 203-228
- 380 Understanding Medical Images Based on Computational Anatomy Models. **2017**, 151-284 1
- 379 Nerve Pathways with MR Tractography. **2017**, 89-111
- 378 Introduction. **2017**, 1-24
- 377 Multidimensional encoding of brain connectomes. 0
- 376 Diffusion MRI of white matter microstructure development in childhood and adolescence: Methods, challenges and progress. 2
- 375 Data-driven subtyping of executive function related behavioural problems in children. 1
- 374 Uncoupling protein 2 haplotype does not affect human brain structure and function in a sample of community-dwelling older adults. **2017**, 12, e0181392 0
- 373 Low Perfusion Compartments in Glioblastoma Quantified by Advanced Magnetic Resonance Imaging and Correlated with Patient Survival.
- 372 Intratumoral Heterogeneity of Tumor Infiltration of Glioblastoma Revealed by Joint Histogram Analysis of Diffusion Tensor Imaging.
- 371 On the Impact of Interhemispheric White Matter: Age, Executive Functioning, and Dedifferentiation in the Frontal Lobes.
- 370 Cerebral White Matter Sex Dimorphism in Alcoholism: A Diffusion Tensor Imaging Study.
- 369 Data-driven brain-types and their cognitive consequences. 0
- 368 Disrupted brain structural connectivity in Pediatric Bipolar Disorder with psychosis.
- 367 Multi-Parametric and Multi-Regional Histogram Analysis of MRI: Revealing Imaging Phenotypes of Glioblastoma Correlated with Patient Survival.
- 366 Characterisation of the Corticospinal Tract Using Diffusion Magnetic Resonance Imaging in Unilateral and Bilateral Cerebral Palsy Patients. **2018**, 25, 68-78 2
- 365 Probabilistic Tractography for Complex Fiber Orientations with Automatic Model Selection. **2018**, 117-128

- 364 No Evidence for Systematic White Matter Correlates of Dyslexia and Dyscalculia.
- 363 Remapping the cognitive and neural profiles of children who struggle at school. 1
- 362 Microstructural Integrity of White Matter Moderates an Association Between Childhood Adversity and Adult Trait Anger. 0
- 361 Cross-sectional white matter microstructure differences in aging and trait mindfulness. 0
- 360 The spatial correspondence and genetic influence of inter-hemispheric connectivity with white matter microstructure.
- 359 Using GPUs to accelerate computational diffusion MRI: From microstructure estimation to tractography and connectomes. 1
- 358 Linking Neural and Clinical Measures of Glaucoma with Diffusion Magnetic Resonance Imaging (dMRI).
- 357 Monocyte depletion attenuates the development of posttraumatic hydrocephalus and preserves white matter integrity after traumatic brain injury.
- 356 Optimization of Energy State Transition Trajectory Supports the Development of Executive Function During Youth. 1
- 355 Diffusion Acceleration with Gaussian process Estimated Reconstruction (DAGER).
- 354 Changes in thalamocortical connectivity as a potential mechanism of cross-modal plasticity in congenitally blind individuals.
- 353 The Brain-Derived Neurotrophic Factor Val66Met Genotype Does Not Influence the Grey or White Matter Structures Underlying Recognition Memory.
- 352 Cognitive and white-matter compartment models revealed the contribution of microstructural variability along sensorimotor tracts to simple reaction time.
- 351 Dmipy, A Diffusion Microstructure Imaging Toolbox in Python to Improve Research Reproducibility. **2019**, 55-67 1
- 350 Locally Linear Embedding of Anatomical Connectivity for Classification. **2019**, 103-122
- 349 Low-Rank Learning of Functional Connectivity Reveals Neural Traits of Individual Differences. **2019**, 183-203
- 348 White matter changes in the perforant path in patients with amyotrophic lateral sclerosis.
- 347 Two fiber pathways connecting amygdala and prefrontal cortex in humans and monkeys. 1

- 346 Neuroanatomical Correlates in Bilinguals: The Case of Children and Elderly.
- 345 The dot-compartment revealed? Diffusion MRI with ultra-strong gradients and spherical tensor encoding in the living human brain. 3
- 344 Myelination of major white matter tracts continues beyond childhood—combining tractography and myelin water imaging. 1
- 343 Myelin development in visual scene-network tracts beyond late childhood: A multimethod neuroimaging study.
- 342 Comparison of CPU and GPU Bayesian Estimates of Fibre Orientations from Diffusion MRI.
- 341 Impact of second-generation antipsychotics on white matter microstructure in adolescent-onset psychosis.
- 340 Spherical deconvolution with tissue-specific response functions and multi-shell diffusion MRI to estimate multiple fiber orientation distributions (mFODs).
- 339 Microstructure Diffusion Scalar Measures from Reduced MRI Acquisitions.
- 338 White matter microstructure in attention-deficit/hyperactivity disorder: a systematic tractography study in 654 individuals. 0
- 337 Brain structural connectivity predicts brain functional complexity: DTI derived centrality accounts for variance in fractal properties of fMRI signal.
- 336 Diffusion MRI free water is a sensitive marker of age-related changes in the cingulum. 1
- 335 Grant Report on the Effects of Childhood Maltreatment on Neurocircuitry in Adolescent Depression. 2020, 5, 1
- 334 A causal role for pulvinar in coordinating task independent cortico-cortical interactions.
- 333 Functional and diffusion MRI reveal the functional and structural basis of infants'noxious-evoked brain activity.
- 332 MESMERISED: Super-accelerating T1 relaxometry and diffusion MRI with STEAM at 7 T for quantitative multi-contrast and diffusion imaging.
- 331 Structural alterations in the macaque frontoparietal white matter network after recovery from prefrontal cortex lesions.
- 330 Reorganized Brain White Matter in Early- and Late-Onset Deafness With Diffusion Tensor Imaging. 2020, 42, 223-234
- 329 An MRI protocol for anatomical and functional evaluation of the California sea lion brain.

- 328 Magnetic Resonance Imaging: Historical Overview, Technical Developments, and Clinical Applications. **2020**, 31, 35-53
- 327 Generalizing effects of frontostriatal structural connectivity on self-esteem using predictive modeling. **2021**, 146, 66-73 ○
- 326 Altered thalamocortical structural connectivity in persons with schizophrenia and healthy siblings.
- 325 Relating Response Inhibition, Brain Connectivity, and Freezing of Gait in People with Parkinson's Disease. **2021**, 27, 733-743
- 324 The Nigrostriatal Tract between the Substantia Nigra and Striatum in the Human Brain: A Diffusion Tensor Tractography Study. **2020**, 32, 388-390 ○
- 323 Modeling mesoscale anatomical structures in macroscale brain finite element models. **2022**, 103-118 ○
- 322 Network-Based Imaging and Connectomics. **2020**, 73-91
- 321 Missing the forest because of the trees: Slower alternations during binocular rivalry are associated with lower levels of visual detail during ongoing thought.
- 320 Alternative Diffusion Anisotropy Metric from Reduced MRI Acquisitions. **2020**, 13-24
- 319 Intrinsic Connectivity Changes Mediate the Beneficial Effect of Cardiovascular Exercise on Sustained Visual Attention. **2020**, 1, tgaa075 1
- 318 Physical and Physiological Principles of Diffusion. **2020**, 457-476 ○
- 317 Measuring Microstructural Features Using Diffusion MRI. **2020**, 571-604
- 316 Modeling Fiber Orientations Using Diffusion MRI. **2020**, 1, 509-532
- 315 Diffusion MRI Fiber Tractography. **2020**, 1, 533-569 1
- 314 Modeling Connectivity in Health and Disease: Examples from the Motor System. **2020**, 321-334
- 313 Frontiers of microstructural imaging with diffusion MRI. **2021**, 2, 19-39 ○
- 312 The efficacy of different preprocessing steps in reducing motion-related confounds in diffusion MRI connectomics. 2
- 311 Serum neurofilament light chain correlates with myelin and axonal magnetic resonance imaging markers in multiple sclerosis.. **2022**, 57, 103366 ○

310	Traumatic brain injury augurs ill for prolonged deficits in the brain's structural and functional integrity following controlled cortical impact injury. <b>2021</b> , 11, 21559	1
309	Entropic regression with neurologically motivated applications. <b>2021</b> , 31, 113105	0
308	Brain-behavior investigation of potential cognitive markers of Alzheimer's disease in middle age: a multi-modal imaging study. <b>2021</b> , 1	0
307	Case Report: Dual Target Deep Brain Stimulation With Externalized Programming for Post-traumatic Complex Movement Disorder. <b>2021</b> , 15, 774073	0
306	Fixel-Based Analysis and Free Water Corrected DTI Evaluation of HIV-Associated Neurocognitive Disorders. <b>2021</b> , 12, 725059	1
305	Microstructural white matter abnormalities in Lesch-Nyhan disease. <b>2021</b> ,	1
304	Divergence-based framework for diffusion tensor clustering, interpolation, and regularization. <b>2007</b> , 20, 507-18	1
303	Probabilistic Fiber Tracking Using Particle Filtering and Von Mises-Fisher Sampling. <b>2007</b> , 303-317	
302	Human Brain Anatomical Connectivity Analysis Using Sequential Sampling and Resampling. <b>2007</b> , 391-400	
301	Differential effects of emotional valence on mnemonic performance with greater hippocampal maturity.	
300	Diffusion MRI Changes in the Healthy Aging Canine Brain.	
299	Local and Distant responses to single pulse electrical stimulation reflect different forms of connectivity.	
298	A Pig White Matter Atlas and Common Connectivity Space Provide a Roadmap for the Introduction of a New Animal Model in Translational Neuroscience.	1
297	Impact of Model Order Choice on the Results of Parallel Independent Component Analysis.	
296	Associations between ADHD symptom remission and white matter microstructure: a longitudinal analysis.	
295	Concurrent anatomical, physiological and network changes in cognitively impaired multiple sclerosis patients.	1
294	DTI Tractography Metrics. <b>2020</b> , 109-116	
293	Quantitative characterization of the corticospinal tract at 3T. <b>2006</b> , 27, 2168-78	84

292	Reorganization of Brain Networks in Aging and Age-related Diseases. <b>2012</b> , 3, 181-93	30
291	Diffusion tensor imaging fiber tracking with reliable tracking orientation and flexible step size. <b>2013</b> , 8, 1481-90	1
290	Disrupted Eye Gaze Perception as a Biobehavioral Marker of Social Dysfunction: An RDoC Investigation. <b>2020</b> , 5,	1
289	Diffusion MR imaging in multiple sclerosis: technical aspects and challenges. <b>2007</b> , 28, 411-20	41
288	Diffusion tensor fiber tractography of the optic radiation: analysis with 6-, 12-, 40-, and 81-directional motion-probing gradients, a preliminary study. <b>2007</b> , 28, 92-6	78
287	Early life factors and white matter microstructure in children with overweight and obesity: The ActiveBrains project. <b>2021</b> , 41, 40-48	0
286	Identification of the main components of spontaneous speech in primary progressive aphasia and their neural underpinnings using multimodal MRI and FDG-PET imaging. <b>2021</b> , 146, 141-160	0
285	Selective association of cytokine levels and kynurenine/tryptophan ratio with alterations in white matter microstructure in bipolar but not in unipolar depression. <b>2021</b> , 55, 96-109	1
284	Multi-task learning based structured sparse canonical correlation analysis for brain imaging genetics. <b>2021</b> , 76, 102297	1
283	The human raphe-hippocampal tract and affective sensitivity: a probabilistic tractography study. <b>2021</b> , 1	
282	In vivo detection of damage in multiple sclerosis cortex and cortical lesions using NODDI. <b>2021</b> ,	0
281	Using tissue microstructure and multimodal MRI to parse the phenotypic heterogeneity and cellular basis of autism spectrum disorder. <b>2021</b> ,	0
280	Microstructural profiles of thalamus and thalamocortical connectivity in patients with disorder of consciousness. <b>2021</b> , 99, 3261	0
279	mrHARDIflow : A pipeline tailored for the preprocessing and analysis of Multi-Resolution High Angular diffusion MRI and its application to a variability study of the PRIME-DE database.	
278	Multi-band- and in-plane-accelerated diffusion MRI enabled by model-based deep learning in q-space and its extension to learning in the spherical harmonic domain. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> ,	4.4 0
277	Posterior integration and thalamo-frontotemporal broadcasting are impaired in disorders of consciousness.	0
276	Widespread effects of dMRI data quality on diffusion measures in children. <b>2021</b> ,	3
275	White matter connectivity networks predict levodopa-induced dyskinesia in Parkinson's disease. <b>2021</b> , 1	1

- 274 The effect of external stimulation on functional networks in the aging healthy human brain. 0
- 273 The role of multimodal MRI in mild cognitive impairment and Alzheimer's disease. **2021**, 0
- 272 Functional Topography of the Human Subthalamic Nucleus: Relevance for Subthalamotomy in Parkinson's Disease. **2021**, 3
- 271 White matter tracts that overlap with the thalamus and the putamen are protected against multiple sclerosis pathology.. **2021**, 57, 103430 0
- 270 Structural connectivity-based segmentation of the human entorhinal cortex. **2021**, 245, 118723 2
- 269 A White Matter Stochastic Tractography System. **2007**, 0
- 268 Prolonged release of VEGF and Ang1 from intralesionally implanted hydrogel promotes perilesional vascularization and functional recovery after experimental ischemic stroke.. **2022**, 271678X211069927 0
- 267 General additive models address statistical issues in diffusion MRI: An example with clinically anxious adolescents.. **2022**, 33, 102937 0
- 266 Impact of white-matter mask selection on DTI histogram-based metrics as potential biomarkers in cerebral small vessel disease.. **2022**, 1 0
- 265 White matter connectivity between structures of the basal ganglia using 3T and 7T.. **2021**, 483, 32-32 0
- 264 Neurofilaments light: Possible biomarker of brain modifications in bipolar disorder.. **2021**, 300, 243-248 0
- 263 Using MRI to determine anatomic differences of the lateral geniculate nucleus in subjects with dyslexia. **2021**, 0
- 262 Potential Pitfalls of Using Fractional Anisotropy, Axial Diffusivity, and Radial Diffusivity as Biomarkers of Cerebral White Matter Microstructure.. **2021**, 15, 799576 1
- 261 Comprehensive diffusion MRI dataset for in vivo human brain microstructure mapping using 300 mT/m gradients.. **2022**, 9, 7 1
- 260 Analysis of Brain Structural Connectivity Networks and White Matter Integrity in Patients With Mild Cognitive Impairment.. **2022**, 14, 793991 0
- 259 Connection between microstructural alterations detected by diffusion MRI and cognitive dysfunction in MS: A model-free analysis approach.. **2021**, 57, 103442 0
- 258 Maladaptive motor cortical excitability and connectivity in polyneuropathy with neuropathic pain.. **2022**, 0
- 257 Deciphering the Network Effects of Deep Brain Stimulation in Parkinson's Disease.. **2022**, 11, 265 0



256	White matter tract transcranial ultrasound stimulation, a computational study.. <b>2021</b> , 140, 105094	0
255	Linking Multi-Modal MRI to Clinical Measures of Visual Field Loss After Stroke.. <b>2021</b> , 15, 737215	0
254	Control energy assessment of spatial interactions among macro-scale brain networks.. <b>2022</b> ,	2
253	Tai Chi Improves Brain Functional Connectivity and Plasma Lysophosphatidylcholines in Postmenopausal Women With Knee Osteoarthritis: An Exploratory Pilot Study.. <b>2021</b> , 8, 775344	0
252	Cortical development coupling between surface area and sulcal depth on macaque brains.. <b>2022</b> , 227, 1013	0
251	Impact of prenatal alcohol exposure on intracortical myelination and deep white matter in children with attention deficit hyperactivity disorder. <b>2022</b> , 2, 100082	0
250	Mapping Frontostriatal White Matter Tracts and their Association with Reward-Related Ventral Striatum Activation in Adolescence.. <b>2022</b> , 1780, 147803	0
249	Intrinsic Structural Connectivity of the Default Mode Network and Behavioral Correlates of Executive Function and Social Skills in Youth with Autism Spectrum Disorders.. <b>2022</b> , 1	0
248	Structural connectivity associated with the sense of body ownership: a diffusion tensor imaging and disconnection study in patients with bodily awareness disorder.. <b>2022</b> , 4, fcac032	0
247	Probabilistic mapping reveals optimal stimulation site in essential tremor.. <b>2022</b> ,	2
246	Diffusion tensor imaging correlates of depressive symptoms in Parkinson disease.. <b>2022</b> ,	1
245	Diffusion time dependence, power-law scaling, and exchange in gray matter.. <b>2022</b> , 251, 118976	6
244	A tractometry principal component analysis of white matter tract network structure and relationships with cognitive function in relapsing-remitting multiple sclerosis.. <b>2022</b> , 34, 102995	
243	Tract-specific statistics based on diffusion-weighted probabilistic tractography.. <b>2022</b> , 5, 138	
242	Biophysical compartment models for single-shell diffusion MRI in the human brain: a model fitting comparison.. <b>2021</b> ,	
241	Utilizing 7-Tesla Subthalamic Nucleus Connectivity in Deep Brain Stimulation for Parkinson Disease.. <b>2022</b> ,	
240	Association Between White Matter Connectivity and Early Dementia in Patients With Parkinson Disease.. <b>2022</b> ,	0
239	Performance of orientation distribution function-fingerprinting with a biophysical multicompartment diffusion model.. <i>Magnetic Resonance in Medicine</i> , <b>2022</b> ,	4.4 1

238	Personalizing deep brain stimulation using advanced imaging sequences.. <b>2022,</b>	5
237	A Multimodal Multilevel Neuroimaging Model for Investigating Brain Connectome Development. 1-28	1
236	Development and Testing of SPIDER-NET: An Interactive Tool for Brain Connectogram Visualization, Sub-Network Exploration and Graph Metrics Quantification.. <b>2022,</b> 16, 818385	
235	Inferring excitation-inhibition dynamics using a maximum entropy model unifying brain structure and function. 1-25	0
234	Uncovering Cortical Units of Processing From Multi-Layered Connectomes.. <b>2022,</b> 16, 836259	
233	Structural architecture and brain network efficiency links polygenic scores to intelligence.	0
232	Functional and structural brain network correlates of visual hallucinations in Lewy body dementia.. <b>2022,</b>	0
231	Electrophysiological abnormalities as indicators of early-stage pathology in Primary Progressive Aphasia (PPA): A case study in semantic variant PPA.. <b>2022,</b> 1-13	
230	Structural brain network topological alterations in stuttering adults.. <b>2022,</b> 4, fcac058	
229	The effect of external stimulation on functional networks in the aging healthy human brain.. <b>2022,</b>	0
228	Effects of aerobic versus cognitively demanding exercise interventions on brain structure and function in healthy children-Results from a cluster randomized controlled trial.. <b>2022,</b> e14034	1
227	Mapping the subcortical connectome using in vivo diffusion MRI: feasibility and reliability.	
226	Dissociated brain functional connectivity of fast versus slow frequencies underlying individual differences in fluid intelligence: a DTI and MEG study.. <b>2022,</b> 12, 4746	0
225	Mesolimbic Neurobehavioral Mechanisms of Reward Motivation in Anorexia Nervosa: A Multimodal Imaging Study.. <b>2022,</b> 13, 806327	1
224	Brain Network Connectivity and Executive Function in Children with Previous Infantile Hydrocephalus.. <b>2022,</b>	0
223	Whole-brain white matter correlates of personality profiles predictive of subjective well-being.. <b>2022,</b> 12, 4558	
222	Enabling Complex Fibre Geometries Using 3D Printed Axon-Mimetic Phantoms.. <b>2022,</b> 16, 833209	0
221	General orientation transform for the estimation of fiber orientations in white matter tissues.. <i>Magnetic Resonance in Medicine,</i> <b>2022,</b>	4-4

220	VPS35 deficiency in the embryonic cortex leads to prenatal cell loss and abnormal development of axonal connectivity.. <b>2022</b> , 103726	
219	Imaging versus electrographic connectivity in human mood-related fronto-temporal networks.. <b>2022</b> ,	0
218	Structure-function coupling within the reward network in preschool children predicts executive functioning in later childhood.. <b>2022</b> , 55, 101107	
217	SDnDTI: Self-supervised deep learning-based denoising for diffusion tensor MRI.. <b>2022</b> , 119033	0
216	Soma and Neurite Density MRI (SANDI) of the in-vivo mouse brain and comparison with the Allen Brain Atlas.. <b>2022</b> , 254, 119135	0
215	Accuracy and Reliability of Diffusion Imaging Models.. <b>2022</b> , 119138	0
214	Connectivity-based thalamus parcellation and surgical targeting of somatosensory subnuclei. <b>2021</b> , 1-8	
213	Neurodegenerative Traits Detected via 3D CNNs Trained with Simulated Brain MRI: Prediction Supported by Visualization of Discriminant Voxels. <b>2021</b> ,	
212	Diffusion Tensor Orientation as a Microstructural MRI Marker of Mossy Fiber Sprouting After TBI in Rats. <b>2021</b> ,	1
211	Lesion Distribution and Early Changes of Right Hemisphere in Chinese Patients With Post-stroke Aphasia.. <b>2021</b> , 13, 632217	0
210	Disruption in structural-functional network repertoire and time-resolved subcortical-frontoparietal connectivity in disorders of consciousness.	1
209	A tractometry investigation of white matter tract network structure and relationships with cognitive function in relapsing-remitting multiple sclerosis.	
208	Differential Developmental Associations of Material Hardship Exposure and Adolescent Amygdala-Prefrontal Cortex White Matter Connectivity.. <b>2021</b> , 1-26	0
207	Enabling complex fibre geometries using 3D printed axon-mimetic phantoms.	1
206	Prevalence of white matter pathways coming into a single white matter voxel orientation: The bottleneck issue in tractography.. <b>2021</b> ,	2
205	A large-scale diffusion imaging study of tinnitus and hearing loss. <b>2021</b> , 11, 23395	1
204	Diffusion Imaging with MR Tractography for Brain Tumor Surgery. <b>2022</b> , 249-314	
203	Cardiorespiratory Fitness is Associated with Better White Matter Integrity in Persons Living with HIV.. <b>2021</b> ,	

202	The "vestibular neuromatrix": A proposed, expanded vestibular network from graph theory in post-concussive vestibular dysfunction. <b>2021</b> ,	1
201	Using diffusion MRI data acquired with ultra-high gradient strength to improve tractography in routine-quality data. <b>2021</b> , 245, 118706	2
200	Advanced diffusion-weighted imaging models better characterize white matter neurodegeneration and clinical outcomes in multiple sclerosis.. <b>2022</b> , 1	1
199	Ultra-high field (10.5T) diffusion-weighted MRI of the macaque brain.. <b>2022</b> , 119200	0
198	Detection of Chronic Blast-Related Mild Traumatic Brain Injury with Diffusion Tensor Imaging and Support Vector Machines.. <b>2022</b> , 12,	0
197	Quantitative MR Markers in Non-Myelopathic Spinal Cord Compression: A Narrative Review.. <b>2022</b> , 11,	0
196	Language and the cerebellum: structural connectivity to the eloquent brain.	
195	Neural mass modelling for the masses: Democratising access to whole-brain biophysical modelling with FastDMF.	0
194	Table_1.docx. <b>2017</b> ,	
193	Data_Sheet_1.PDF. <b>2019</b> ,	
192	Data_Sheet_1.pdf. <b>2018</b> ,	
191	Data_Sheet_1.pdf. <b>2020</b> ,	
190	Table_1.DOCX. <b>2018</b> ,	
189	Data_Sheet_1.PDF. <b>2019</b> ,	
188	Data_Sheet_2.PDF. <b>2019</b> ,	
187	Table_1.docx. <b>2019</b> ,	
186	Image_1.TIF. <b>2018</b> ,	
185	Image_2.TIF. <b>2018</b> ,	

184 Image\_3.TIF. 2018,

183 Image\_4.TIF. 2018,

182 Image\_5.JPEG. 2018,

181 Table\_1.DOCX. 2018,

180 Table\_2.DOCX. 2018,

179 Data\_Sheet\_1.DOCX. 2018,

178 DataSheet1.DOCX. 2018,

177 Table3.DOCX. 2018,

176 Table\_1.DOCX. 2018,

175 Table\_2.DOCX. 2018,

174 Table\_1.docx. 2020,

173 Table\_2.docx. 2020,

172 Table\_3.docx. 2020,

171 Table\_4.docx. 2020,

170 Data\_Sheet\_1.PDF. 2019,

169 Data\_Sheet\_1.CSV. 2018,

168 Data\_Sheet\_2.CSV. 2018,

167 Data\_Sheet\_3.CSV. 2018,

166 Data\_Sheet\_4.CSV. 2018,

165 Table\_1.docx. 2018,

164 Table\_1.DOCX. 2018,

163 Data\_Sheet\_1.PDF. 2018,

162 Data\_Sheet\_2.pdf. 2018,

161 Data\_Sheet\_1.docx. 2019,

160 Table\_1.xlsx. 2019,

159 Presentation1.pdf. 2018,

158 Data\_Sheet\_1.pdf. 2019,

157 DataSheet\_1.docx. 2020,

156 Image\_1.JPEG. 2020,

155 Image\_2.JPEG. 2020,

154 Table\_1.docx. 2020,

153 Table\_2.docx. 2020,

152 Table\_3.docx. 2020,

151 Table\_4.docx. 2020,

150 Comparison of CPU and GPU bayesian estimates of fibre orientations from diffusion MRI.. 2022, 17, e0252736 1

149 A population-normalized tractographic fiber atlas of the anterior limb of the internal capsule: relevance to surgical neuromodulation.. 2022, 1-11

- 148 Moderate Intensity Exercise in Pre-manifest Huntington's Disease: Results of a 6 months Trial.. **2021**, 2, 6-36
- 147 Thalamic structural connectivity profiles in blepharospasm/Meige's syndrome.. **2022**, 34, 103013 ○
- 146 Lateral Cerebellothalamic Tract Activation Underlies DBS Therapy for Essential Tremor.
- 145 Methodological evaluation of individual cognitive prediction based on the brain white matter structural connectome.. **2022**,
- 144 Predicting Attentional Vulnerability to Sleep Deprivation: A Multivariate Pattern Analysis of DTI Data.. **2022**, 14, 791-803 ○
- 143 Free water diffusion MRI and executive function with a speed component in healthy aging.. **2022**, 119303 1
- 142 A Diffusion Tensor Imaging Study on the White Matter Structures Related to the Phonology in CantoneseMandarin Bilinguals. **2022**, 16,
- 141 Diffusion-relaxation scattered MR signal representation in a multi-parametric sequence.. **2022**,
- 140 Uncovering molecular iron compounds in the living human brain. ○
- 139 Functional, but Minimal Microstructural Brain Changes Present in Aging Canadian Football League Players Years After Retirement. **2022**, 100036
- 138 The Case for Optimized Edge-Centric Tractography at Scale. **2022**, 16, ○
- 137 Potential Diffusion Tensor Imaging Biomarkers for Elucidating Intra-Individual Age-Related Changes in Cognitive Control and Processing Speed.. **2022**, 14, 850655 ○
- 136 Aberrant cortico-striatal white matter connectivity and associated subregional microstructure of the striatum in obsessive-compulsive disorder.
- 135 Multi-modality connectome-based predictive modeling of individualized compulsions in obsessive-compulsive disorder. **2022**,
- 134 Long-Term Effects of Repeated Blast Exposure in United States Special Operations Forces Personnel: A Pilot Study Protocol&#x0D;.
- 133 Midbrain-Hippocampus Structural Integrity Selectively Predicts Motivated Memory Encoding.
- 132 Brain imaging abnormalities in mixed Alzheimer's and subcortical vascular dementia. 1-36
- 131 Visual Attention and Poor Sleep Quality. **2022**, 16,

- 130 Static and dynamic BOLD fMRI components along white matter fibre tracts and their dependence on the orientation of the local diffusion tensor axis relative to the B0-field. 0271678X2211062
- 129 Predicting time-resolved electrophysiological brain networks from structural eigenmodes. 0
- 128 Genetic architecture of the white matter connectome of the human brain. 0
- 127 Tract-specific white matter microstructural alterations in subjects with schizophrenia and unaffected first-degree relatives.
- 126 Dissociating the functional roles of arcuate fasciculus subtracts in speech production. 1
- 125 The structural brain network topology of episodic memory. **2022**, 17, e0270592 0
- 124 Frontal white matter association with sleep quality and the role of stress. 0
- 123 The Impaired Subcortical Pathway From Superior Colliculus to the Amygdala in Boys With Autism Spectrum Disorder. 16, 0
- 122 Differential roles of delta and theta oscillations in understanding semantic gist during natural audiovisual speech perception: Functional and anatomical evidence.
- 121 PhiPipe: a multi-modal MRI data processing pipeline with test-retest reliability and predicative validity assessments.
- 120 Two Patterns of White Matter Connection in Multiple Gliomas: Evidence from Probabilistic Fiber Tracking. **2022**, 11, 3693 0
- 119 Comparing human and chimpanzee temporal lobe neuroanatomy reveals modifications to human language hubs beyond the frontotemporal arcuate fasciculus. **2022**, 119, 1
- 118 Basal ganglia-cortical connectivity underlies self-regulation of brain oscillations in humans. **2022**, 5, 1
- 117 Microstructural alterations in association tracts and language abilities in schoolchildren born very preterm and with poor fetal growth. 0
- 116 Memory retrieval brainBehavior disconnection in mild traumatic brain injury: A magnetoencephalography and diffusion tensor imaging study. 0
- 115 A Hierarchical Graph Learning Model for Brain Network Regression Analysis. 16, 1
- 114 Reduced fractional anisotropy in bipolar disorder v. major depressive disorder independent of current symptoms. 1-11
- 113 Effect of behavioural practice targeted at the motor action selection network after stroke.



112	Determining the OPTIMAL DTI Analysis Method for Application in Cerebral Small Vessel Disease. <b>2022</b> , 103114	1
111	Structural disconnection and functional reorganization in Fabry disease: a multimodal MRI study. <b>2022</b> , 4,	0
110	Short-Term Repeatability and Long-Term Reproducibility of Quantitative MR Imaging Biomarkers in a Single Centre Longitudinal Study. <b>2022</b> , 119488	
109	Mid-term MRI evaluation reveals microstructural white matter alterations in COVID-19 fully recovered subjects with anosmia presentation. <b>2022</b> , 15, 175628642211119	1
108	Regional Disruption of White Matter Integrity and Network Connectivity Are Related to Cognition. <b>2022</b> , 1-11	0
107	One session of fMRI-Neurofeedback training on motor imagery modulates whole-brain effective connectivity and dynamical complexity.	0
106	Distance-dependent distribution thresholding in probabilistic tractography.	
105	Combining Multiple Indices of Diffusion Tensor Imaging Can Better Differentiate Patients with Traumatic Brain Injury from Healthy Subjects. Volume 18, 1801-1814	
104	WHITE MATTER MICROSTRUCTURE AND LONGITUDINAL RELAXATION TIME ANISOTROPY IN HUMAN BRAIN AT 3T AND 7T.	
103	Disruption in structuralfunctional network repertoire and time-resolved subcortical fronto-temporoparietal connectivity in disorders of consciousness. 11,	0
102	Brain metabolic changes and clinical response to superolateral medial forebrain bundle deep brain stimulation for treatment-resistant depression.	1
101	Individual differences in white matter microstructure of the face processing brain network are more differentiated from global fibers with increasing ability. <b>2022</b> , 12,	
100	A generalized deep learning network for fractional anisotropy reconstruction: Application to epilepsy and multiple sclerosis. 16,	
99	White matter pathways associated with empathy in females: A DTI investigation. <b>2022</b> , 162, 105902	
98	Structural and functional changes in the brains of patients with Rett syndrome: A multimodal MRI study. <b>2022</b> , 441, 120381	
97	Combination of structural and functional connectivity explains unique variation in specific domains of cognitive function. <b>2022</b> , 262, 119531	0
96	Mapping the subcortical connectome using in vivo diffusion MRI: Feasibility and reliability. <b>2022</b> , 262, 119553	0
95	CTtrack: A CNN+Transformer-based framework for fiber orientation estimation & tractography. <b>2022</b> , 2, 100099	

- 94 Age-dependent white matter microstructural disintegrity in autism spectrum disorder. 16, 1
- 93 An Adaptive Network with Extragradient for Diffusion MRI-Based Microstructure Estimation. **2022**, 153-162 0
- 92 Adaptive Unsupervised Learning with Enhanced Feature Representation for Intra-tumor Partitioning and Survival Prediction for Glioblastoma. **2022**, 124-139 0
- 91 A Pilot randomized trial to examine effects of a hybrid closed-loop insulin delivery system on neurodevelopmental and cognitive outcomes in adolescents with type 1 diabetes. **2022**, 13, 1
- 90 The BigMac dataset: an open resource combining multi-contrast MRI and microscopy in the macaque brain. 0
- 89 Volumetric and connectivity assessment of the caudate nucleus in California sea lions and coyotes. 1
- 88 Fast data-driven computation and intuitive visualization of fiber orientation uncertainty in 3D-polarized light imaging. 10, 0
- 87 DCP: a pipeline toolbox for diffusion connectome. 0
- 86 Repetitive mild traumatic brain injury impairs resting state fMRI connectivity and alters protein profile signaling networks. 0
- 85 Familial risk for major depression: differential white matter alterations in healthy and depressed participants. 1-10 1
- 84 Multi-band multi-shot diffusion MRI reconstruction with joint usage of structured low-rank constraints and explicit phase mapping. 0
- 83 Predicting the true extent of glioblastoma based on probabilistic tractography. 16, 0
- 82 Magnetic resonance imaging of the dopamine system in schizophrenia [A scoping review]. 13, 0
- 81 Comorbid Neurodegeneration in Primary Progressive Aphasia: Clinicopathological Correlations in a Single-Center Study. **2022**, 2022, 1-14 0
- 80 Potential Link Between Cognition and Motor Reserve in Patients With Parkinson Disease. **2022**, 15, 249-257 1
- 79 Multi-compartment diffusion magnetic resonance imaging models link tract-related characteristics with working memory performance in healthy older adults. 14, 1
- 78 NODDI, diffusion tensor microstructural abnormalities and atrophy of brain white matter and gray matter contribute to cognitive impairment in multiple sclerosis. 0
- 77 White matter connectivity in brain networks supporting social and affective processing predicts real-world social network characteristics. **2022**, 5, 0

76	High cortical iron is associated with the disruption of white matter tracts supporting cognitive function in healthy older adults.	0
75	Advanced spinal cord MRI in multiple sclerosis: Current techniques and future directions. <b>2022</b> , 36, 103244	1
74	DWI Physics and Imaging Techniques. <b>2022</b> , 31-46	0
73	Reduced basal ganglia tissue-iron concentration in school-age children with attention-deficit/hyperactivity disorder is localized to limbic circuitry.	0
72	Cholinergic white matter pathways along the Alzheimer's disease continuum.	0
71	Beyond the brain localization of complex traits: Distributed white matter markers of personality.	0
70	Thalamocortical networks involved in Pusher Syndrome.	0
69	Brain structural plasticity in rats subjected to early binocular enucleation characterized by high resolution anatomical magnetic resonance imaging and diffusion tensor imaging. <b>2022</b> ,	0
68	Disruption of white matter integrity and its relationship with cognitive function in non-severe traumatic brain injury. 13,	0
67	Identification of central amygdala and trigeminal motor nucleus connectivity in humans: An ultra-high field diffusion MRI study.	0
66	Development of morning-eveningness in adolescence: implications for brain development and psychopathology.	0
65	Performance in information processing speed is associated with parietal white matter tract integrity in multiple sclerosis. 13,	0
64	Orientation dependence of R2 relaxation in the newborn brain. <b>2022</b> , 264, 119702	0
63	BrainGB: A Benchmark for Brain Network Analysis with Graph Neural Networks. <b>2022</b> , 1-1	1
62	Advances in magnetic resonance imaging. <b>2023</b> , 21-52	0
61	Using in vivo functional and structural connectivity to predict chronic stroke aphasia deficits.	0
60	Midbrain-Hippocampus Structural Connectivity Selectively Predicts Motivated Memory Encoding. JN-RM-0945-02	
59	Targeted Modulation of Human Brain Interregional Effective Connectivity With Spike-timing Dependent Plasticity. <b>2022</b> ,	0

- 58 Fitting a Directional Microstructure Model to Diffusion-Relaxation MRI Data with Self-supervised Machine Learning. **2022**, 77-88 ○
- 57 Turning and multitask gait unmask gait disturbance in mild-to-moderate multiple sclerosis: Underlying specific cortical thinning and connecting fibers damage. 1
- 56 Classification accuracy of structural and functional connectomes across different depressive phenotypes. ○
- 55 Brain grey and white matter structural associations with future suicidal ideation and behaviors in adolescent and young adult females with mood disorders. **2022**, 2, ○
- 54 Diffusion tensor imaging of the brain in Pompe disease. ○
- 53 Microstructural and functional plasticity following repeated brain stimulation during cognitive training in non-demented older adults. ○
- 52 Association between real-time strategy video game learning outcomes and pre-training brain white matter structure: preliminary study. **2022**, 12, ○
- 51 A combined DTI-fMRI approach for optimizing the delineation of posteromedial vs. anterolateral entorhinal cortex. ○
- 50 White matter abnormalities in presymptomatic GRN and C9orf72 mutation carriers. ○
- 49 Automation and standardization of subject-specific region-of-interest segmentation for investigation of diffusion imaging in clinical populations. **2022**, 17, e0268233 ○
- 48 Limbic connectivity underlies pain treatment response in small-fiber neuropathy. ○
- 47 Imaging Modalities Used for Frameless and Fiducial-Less Deep Brain Stimulation: A Single Centre Exploratory Study among Parkinson Disease Cases. **2022**, 12, 3132 ○
- 46 A structural connectivity atlas of limbic brainstem nuclei. 1, ○
- 45 Novel insights into axon diameter and myelin content in late childhood and adolescence. ○
- 44 Sampling strategies and integrated reconstruction for reducing distortion and boundary slice aliasing in high-resolution 3D diffusion MRI. ○
- 43 Eagle-449: A volumetric, whole-brain compilation of brain atlases for vestibular functional MRI research. **2023**, 10, ○
- 42 Predicting insomnia severity using structure-function coupling in female chronic insomnia patients. **2023**, 441, 114283 ○
- 41 A critical role of brain network architecture in a continuum model of autism spectrum disorders spanning from healthy individuals with genetic liability to individuals with ASD. ○

- 40 PhiPipe : A multi-modal MRI data processing pipeline with test-retest reliability and predictive validity assessments. ○
- 39 Connectivity-based parcellation of the amygdala and identification of its main white matter connections. **2023**, 13, ○
- 38 Reorganization of thalamocortical connections in congenitally blind humans. ○
- 37 White matter microstructure is associated with the precision of visual working memory. ○
- 36 Diffusion MRI data analysis assisted by deep learning synthesized anatomical images (DeepAnat). **2023**, 102744 ○
- 35 Changes in Distributed Motor Network Connectivity Correlates With Functional Outcome After Surgical Resection of Brain Tumors. **2023**, 4, ○
- 34 Structural architecture and brain network efficiency link polygenic scores to intelligence. ○
- 33 Axial and radial axonal diffusivities and radii from single encoding strongly diffusion-weighted MRI. **2023**, 86, 102767 ○
- 32 The anatomical networks based on probabilistic structural connectivity in bipolar disorder across mania, depression, and euthymic states. **2023**, 329, 42-49 ○
- 31 Brain networks for temporal adaptation, anticipation, and sensory-motor integration in rhythmic human behavior. **2023**, 183, 108524 ○
- 30 Structural connectivity of an interoception network in schizophrenia. **2023**, 331, 111636 ○
- 29 Abnormal white matter changes in Alzheimer's disease based on diffusion tensor imaging: A systematic review. **2023**, 87, 101911 ○
- 28 Transversely-isotropic brain in vivo MR elastography with anisotropic damping. **2023**, 141, 105744 ○
- 27 Lateral cerebellothalamic tract activation underlies DBS therapy for Essential Tremor. **2023**, 16, 445-455 ○
- 26 Fronto-striatal damage may contribute to resistance to fatigue-lowering medications in multiple sclerosis. **2023**, 33, 269-278 ○
- 25 Disentangling the neurobiological bases of temporal impulsivity in Huntington's disease. ○
- 24 TW-BAG: Tensor-wise Brain-aware Gate Network for Inpainting Disrupted Diffusion Tensor Imaging. **2022**, ○
- 23 Associations of Life's Simple 7 with cerebral white matter hyperintensities and microstructural integrity: UK Biobank cohort study. **2023**, 30, 1200-1208 ○

- 22 Longitudinal associations between mother-child attachment security in toddlerhood and white matter microstructure in late childhood: a preliminary investigation. **2023**, 25, 291-310 ○
- 21 Neuroplasticity enables bio-cultural feedback in Paleolithic stone-tool making. **2023**, 13, ○
- 20 Effect of sex on the APOE4-aging interaction in the white matter microstructure of cognitively normal older adults using diffusion-tensor MRI with orthogonal-tensor decomposition (DT-DOME). 17, ○
- 19 Prediction of post-stroke motor recovery benefits from measures of sub-acute widespread network damages. **2023**, 5, ○
- 18 Neurophysiological and other features of working memory in older adults at risk for dementia. ○
- 17 White matter properties in fronto-parietal tracts predict maladaptive functional activation and deficient response inhibition in ADHD. ○
- 16 Using graph theory as a common language to combine neural structure and function in models of healthy cognitive performance. ○
- 15 Comparison of uniform-density, variable-density, and dual-density spiral samplings for multi-shot DWI. ○
- 14 Roadmap for an imaging and modelling paediatric study in rural NZ. 14, ○
- 13 More extensive white matter disruptions present in untreated obstructive sleep apnea than we thought: A large sample diffusion imaging study. ○
- 12 Differential effects of emotional valence on mnemonic performance with greater hippocampal maturity. **2023**, 30, 55-62 ○
- 11 White Matter. **2013**, 205-244 ○
- 10 Assessing the structure of the posterior visual pathway in bilateral macular degeneration. **2023**, 13, ○
- 9 Central Executive and Default Mode Networks: An Appraisal of Executive Function and Social Skill Brain-Behavior Correlates in Youth with Autism Spectrum Disorder. ○
- 8 White matter microstructure is associated with the precision of visual working memory. **2023**, 272, 120069 ○
- 7 Negative stressful life events and social support are associated with white matter integrity in depressed patients and healthy controls: a diffusion tensor imaging study. **2023**, ○
- 6 Fixed time point analysis reveals repetitive mild traumatic brain injury effects on resting state fMRI connectivity and neuro-spatial protein profiles. ○
- 5 Life-course neighbourhood deprivation and brain structure in older adults: The Lothian Birth Cohort 1936. ○

- 4 A framework for focal and connectomic mapping of transiently disrupted brain function. **2023**, 6,
- 3 A gendered brain perspective from structure to brain interactions. **2023**, 39-59
- 2 Cerebral effects of gender-affirming hormone treatments in transgender persons. **2023**, 589-600
- 1 Early-life obesogenic environment integrates immunometabolic and epigenetic signatures governing neuroinflammation.