

# Publications using HCP data/methods (post initial HCP Q1 Release, March 2013)

This page documents publications appearing on PubMed that cite the use of publicly released WU-Minn HCP data or methods for part of their study analysis. This list includes both within HCP consortium and outside HCP consortium studies published after the March 2013 Q1 HCP Data Release. This list does not include publications using MGH-USC HCP data, if WU-Minn HCP data was not also included (see <http://www.neuroscienceblueprint.nih.gov/connectome/> for a description of HCP consortia).

To compile this list, we search PubMed for "Human Connectome Project" OR WU-Minn HCP Grant number: "MH091657", and manually take out publications that do not specifically use the WU-Minn data or methods. We also manually add any publications that are directly sent to us and meet the "use WU-Minn HCP data" criteria-- these cases are marked with asterisks ( \*\* ) in the list.

In PMID order, latest PMID on top; numbered in reverse order.

HCP consortium and collaborators publications indicated in **Bold**.

For publications produced by the HCP consortium and collaborators, since the inception of HCP in 2010, please see <http://humanconnectome.org/about/publications.html>.

## New 2017-8 Consortium Publications:

Bielczyk NZ, Walocha F, Ebel PW, Haak KV, Llera A, Buitelaar JK, Glennon JC, Beckmann CF. **Thresholding functional connectomes by means of mixture modeling**. *Neuroimage*. 2018 Jan 5. pii: S1053-8119(18)30003-X. doi: 10.1016/j.neuroimage.2018.01.003. PMID: 29309896

Adhikari BM, Jahanshad N, Shukla D, Glahn DC, Blangero J, Reynolds RC, Cox RW, Fieremans E, Veraart J, Novikov DS, Nichols TE, Hong LE, Thompson PM, Kochunov P. **Heritability estimates on resting state fMRI data using ENIGMA analysis pipeline**. *Pac Symp Biocomput*. 2018;23:307-318. PMID: 29218892

Pisharady PK, Sotiropoulos SN, Sapiro G, Lenglet C. **A Sparse Bayesian Learning Algorithm for White Matter Parameter Estimation from Compressed Multi-shell Diffusion MRI**. *Med Image Comput Comput Assist Interv*. 2017 Sep;10433:602-610. doi: 10.1007/978-3-319-66182-7\_69. PMID: 29104968

Graham MS, Drobnyak I, Jenkinson M, Zhang H. **Quantitative assessment of the susceptibility artefact and its interaction with motion in diffusion MRI**. *PLoS One*. 2017 Oct 2;12(10):e0185647. doi: 10.1371/journal.pone.0185647. PMID: 28968429

Liégeois R, Laumann TO, Snyder AZ, Zhou J, Yeo BTT. **Interpreting temporal fluctuations in resting-state functional connectivity MRI**. *Neuroimage*. 2017 Dec;163:437-455. doi: 10.1016/j.neuroimage.2017.09.012. PMID: 28916180

Lerman-Sinkoff DB, Sui J, Rachakonda S, Kandala S, Calhoun VD, Barch DM. **Multimodal neural correlates of cognitive control in the Human Connectome Project**. *Neuroimage*. 2017 Dec;163:41-54. doi: 10.1016/j.neuroimage.2017.08.081. PMID: 28867339

Caruso L, Wunderle T, Lewis CM, Valadeiro J, Trauchessec V, Trejo Rosillo J, Amaral JP, Ni J, Jendritza P, Fermon C, Cardoso S, Freitas PP, Fries P, Pannetier-Lecoeur M. **In Vivo Magnetic Recording of Neuronal Activity**. *Neuron*. 2017 Sep 13;95(6):1283-1291.e4. doi: 10.1016/j.neuron.2017.08.012. PMID: 28844526

Barch DM. **Resting-State Functional Connectivity in the Human Connectome Project: Current Status and Relevance to Understanding Psychopathology**. *Harv Rev Psychiatry*. 2017 Sep/Oct;25(5):209-217. doi: 10.1097/HRP.000000000000166. PMID: 28816791

Michalski LJ, Demers CH, Baranger DAA, Barch DM, Harms MP, Burgess GC, Bogdan R. **Perceived stress is associated with increased rostral middle frontal gyrus cortical thickness: a family-based and discordant-sibling investigation**. *Genes Brain Behav*. 2017 Nov;16(8):781-789. doi: 10.1111/gbb.12404. PMID: 28749606

Colclough GL, Smith SM, Nichols TE, Winkler AM, Sotiropoulos SN, Glasser MF, Van Essen DC, Woolrich MW. **The heritability of multi-modal connectivity in human brain activity**. *Elife*. 2017 Jul 26;6. pii: e20178. doi: 10.7554/eLife.20178. PMID: 28745584

Bijsterbosch J, Harrison S, Duff E, Alfaro-Almagro F, Woolrich M, Smith S. **Investigations into within- and between-subject resting-state amplitude variations**. *Neuroimage*. 2017 Oct 1;159:57-69. doi: 10.1016/j.neuroimage.2017.07.014. PMID: 28712995

Urbil K. **Imaging at ultrahigh magnetic fields: History, challenges, and solutions**. *Neuroimage*. 2017 Jul 8. pii: S1053-8119(17)30575-X. doi: 10.1016/j.neuroimage.2017.07.007. PMID: 28698108

Pisharady PK, Sotiropoulos SN, Duarte-Carvajalino JM, Sapiro G, Lenglet C. **Estimation of white matter fiber parameters from compressed multiresolution diffusion MRI using sparse Bayesian learning**. *Neuroimage*. 2017 Jun 29. pii: S1053-8119(17)30523-2. doi: 10.1016/j.neuroimage.2017.06.052. PMID: 28669918

Vidaurre D, Abeyesuriya R, Becker R, Quinn AJ, Alfaro-Almagro F, Smith SM, Woolrich MW. **Discovering dynamic brain networks from big data in rest and task**. *Neuroimage*. 2017 Jun 29. pii: S1053-8119(17)30548-7. doi: 10.1016/j.neuroimage.2017.06.077. PMID: 28669905

Richter CG, Thompson WH, Bosman CA, Fries P. **Top-Down Beta Enhances Bottom-Up Gamma**. *J Neurosci*. 2017 Jul 12;37(28):6698-6711. doi: 10.1523/JNEUROSCI.3771-16.2017. PMID: 28592697

Hutter J, Tournier JD, Price AN, Cordero-Grande L, Hughes EJ, Malik S, Steinweg J, Bastiani M, Sotiropoulos SN, Jbabdi S, Andersson J, Edwards AD, Hajnal JV. **Time-efficient and flexible design of optimized multishell HARDI diffusion**. *Magn Reson Med*. 2018 Mar;79(3):1276-1292. doi: 10.1002/mrm.26765. PMID: 28557055

Haak KV, Beckmann CF. **Objective analysis of the topological organization of the human cortical visual connectome suggests three visual pathways**. *Cortex*. 2018 Jan;98:73-83. doi: 10.1016/j.cortex.2017.03.020. PMID: 28457575

Andersson JLR, Graham MS, Drobnyak I, Zhang H, Filippini N, Bastiani M. [Towards a comprehensive framework for movement and distortion correction of diffusion MR images: Within volume movement](#). *Neuroimage*. 2017 May 15;152:450-466. doi: 10.1016/j.neuroimage.2017.02.085. PMID: 28284799

Alexander DC, Zikic D, Ghosh A, Tanno R, Wottschel V, Zhang J, Kaden E, Dyrby TB, Sotiropoulos SN, Zhang H, Criminisi A. [Image quality transfer and applications in diffusion MRI](#). *Neuroimage*. 2017 May 15;152:283-298. doi: 10.1016/j.neuroimage.2017.02.089. PMID: 28263925

Babajani-Feremi A. [Neural Mechanism Underlying Comprehension of Narrative Speech and Its Heritability: Study in a Large Population](#). *Brain Topogr*. 2017 Sep;30(5):592-609. doi: 10.1007/s10548-017-0550-6. PMID: 28214981

## New 2016-7 Consortium Publications:

Michalareas G, Vezoli J, van Pelt S, Schoffelen JM, Kennedy H, Fries P. Alpha-Beta and Gamma Rhythms Subserve Feedback and Feedforward Influences among Human Visual Cortical Areas. *Neuron*. 2016 Jan 20;89(2):384-97. doi: 10.1016/j.neuron.2015.12.018. PMID:26777277

Maris E, Fries P, van Ede F. Diverse Phase Relations among Neuronal Rhythms and Their Potential Function. *Trends Neurosci*. 2016 Feb;39(2):86-99. doi: 10.1016/j.tins.2015.12.004. Review. PMID:26778721

Barch DM, Gotlib IH, Bilder RM, Pine DS, Smoller JW, Brown CH, Huggins W, Hamilton C, Haim A, Farber GK. Common Measures for National Institute of Mental Health Funded Research. *Biol Psychiatry*. 2016 Jun 15;79(12):e91-6. doi: 10.1016/j.biopsych.2015.07.006. PMID:26903402

Sotiropoulos SN, Hernández-Fernández M, Vu AT, Andersson JL, Moeller S, Yacoub E, Lenglet C, Ugurbil K, Behrens TE, Jbabdi S. Fusion in diffusion MRI for improved fibre orientation estimation: An application to the 3T and 7T data of the **Human Connectome Project**. *Neuroimage*. 2016 Jul 1;134:396-409. doi: 10.1016/j.neuroimage.2016.04.014. PMID:27071694

Tavor I, Parker Jones O, Mars RB, Smith SM, Behrens TE, Jbabdi S. Task-free MRI predicts individual differences in brain activity during task performance. *Science*. 2016 Apr 8;352(6282):216-20. doi: 10.1126/science.aad8127. PMID:27124457

Colclough GL, Woolrich MW, Tewarie PK, Brookes MJ, Quinn AJ, Smith SM. How reliable are MEG resting-state connectivity metrics? *Neuroimage*. 2016 Sep;138:284-93. doi: 10.1016/j.neuroimage.2016.05.070. PMID:27262239

Eklund A, Nichols TE, Knutsson H. Cluster failure: Why fMRI inferences for spatial extent have inflated false-positive rates. *Proc Natl Acad Sci U S A*. 2016 Jul 12;113(28):7900-5. doi: 10.1073/pnas.1602413113. Erratum in: *Proc Natl Acad Sci U S A*. 2016 Aug 16;113(33):E4929. PMID:27357684

Xiao Y, Zitella LM, Duchin Y, Teplitzky BA, Kastl D, Adriani G, Yacoub E, Harel N, Johnson MD. Multimodal 7T Imaging of Thalamic Nuclei for Preclinical Deep Brain Stimulation Applications. *Front Neurosci*. 2016 Jun 10;10:264. doi: 10.3389/fnins.2016.00264. PMID:27375422

Glasser MF, Coalson TS, Robinson EC, Hacker CD, Harwell J, Yacoub E, Ugurbil K, Andersson J, Beckmann CF, Jenkinson M, Smith SM, Van Essen DC. A multi-modal parcellation of human cerebral cortex. *Nature*. 2016 Aug 11;536(7615):171-8. PMID:27437579

Siegel JS, Mitra A, Laumann TO, Seitzman BA, Raichle M, Corbetta M, Snyder AZ. Data Quality Influences Observed Links Between Functional Connectivity and Behavior. *Cereb Cortex*. 2016 Aug 22. [Epub ahead of print] PMID:27550863

Glasser MF, Smith SM, Marcus DS, Andersson JL, Auerbach EJ, Behrens TE, Coalson TS, Harms MP, Jenkinson M, Moeller S, Robinson EC, Sotiropoulos SN, Xu J, Yacoub E, Ugurbil K, Van Essen DC. The Human Connectome Project's neuroimaging approach. *Nat Neurosci*. 2016 Aug 26;19(9):1175-87. doi: 10.1038/nn.4361. Review. PMID:27571196

Burgess GC, Kandala S, Nolan D, Laumann TO, Power JD, Adeyemo B, Harms MP, Petersen SE, Barch DM. Evaluation of Denoising Strategies to Address Motion-Related Artifacts in Resting-State Functional Magnetic Resonance Imaging Data from the Human Connectome Project. *Brain Connect*. 2016 Nov;6(9):669-680. PMID:27571276

Ni J, Wunderle T, Lewis CM, Desimone R, Diester I, Fries P. Gamma-Rhythmic Gain Modulation. *Neuron*. 2016 Oct 5;92(1):240-251. doi: 10.1016/j.neuron.2016.09.003. PMID:27667008

Hodgson K, Poldrack RA, Curran JE, Knowles EE, Mathias S, Göring HH, Yao N, Olvera RL, Fox PT, Almasy L, Duggirala R, Barch DM, Blangero J, Glahn DC. Shared Genetic Factors Influence Head Motion During MRI and Body Mass Index. *Cereb Cortex*. 2016 Oct 15. [Epub ahead of print] PMID: 27744290

Sheffield JM, Kandala S, Burgess GC, Harms MP, Barch DM. Cingulo-opercular network efficiency mediates the association between psychotic-like experiences and cognitive ability in the general population. *Biol Psychiatry Cogn Neurosci Neuroimaging*. 2016 Nov;1(6):498-506. PMID:27833940

Vu AT, Jamison K, Glasser MF, Smith SM, Coalson T, Moeller S, Auerbach EJ, Ugurbil K, Yacoub E. Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. *Neuroimage*. 2016 Nov 25. pii: S1053-8119(16)30668-1. doi: 10.1016/j.neuroimage.2016.11.049. PMID:27894889

Farooq H, Xu J, Nam JW, Keefe DF, Yacoub E, Georgiou T, Lenglet C. Microstructure Imaging of Crossing (MIX) White Matter Fibers from diffusion MRI. *Sci Rep*. 2016 Dec 16;6:38927. doi: 10.1038/srep38927. PMID:27982056

Griffanti L, Douaud G, Bijsterbosch J, Evangelisti S, Alfaro-Almagro F, Glasser MF, Duff EP, Fitzgibbon S, Westphal R, Carone D, Beckmann CF, Smith SM. Hand classification of fMRI ICA noise components. *Neuroimage*. 2016 Dec 16. pii: S1053-8119(16)30758-3. doi: 10.1016/j.neuroimage.2016.12.036. PMID:27989777

## Current as of April 6, 2016:

115. Fick RH, Wassermann D, Caruyer E, Deriche R. MAPL: Tissue microstructure estimation using Laplacian-regularized MAP-MRI and its application to HCP data. *Neuroimage*. 2016 Apr 1. pii: S1053-8119(16)00251-2. doi: 10.1016/j.neuroimage.2016.03.046. [Epub ahead of print] PMID:27043358

114. Ryali S, Chen T, Supekar K, Tu T, Kochlka J, Cai W, Menon V. Multivariate dynamical systems-based estimation of causal brain interactions in fMRI: Group-level validation using benchmark data, neurophysiological models and **human connectome project** data. *J Neurosci Methods*. 2016 Mar 22. pii: S0165-0270(16)30016-4. doi: 10.1016/j.jneumeth.2016.03.010. [Epub ahead of print] PMID:27015792

113. Chen S, Langley J, Chen X, Hu X. Spatiotemporal Modeling of Brain Dynamics Using Resting-State Functional Magnetic Resonance Imaging with Gaussian Hidden Markov Model. *Brain Connect*. 2016 Mar 23. [Epub ahead of print] PMID:27008543
- X 112. Ely BA, Xu J, Goodman WK, Lapidus KA, Gabbay V, Stern ER. Resting-state functional connectivity of the human habenula in healthy individuals: Associations with subclinical depression. *Hum Brain Mapp*. 2016 Mar 16. doi: 10.1002/hbm.23179. [Epub ahead of print] PMID:26991474
111. Meola A, Yeh FC, Fellows-Mayle W, Weed J, Fernandez-Miranda JC. Human Connectome-Based Tractographic Atlas of the Brainstem Connections and Surgical Approaches. *Neurosurgery*. 2016 Feb 23. [Epub ahead of print] PMID:26914259
110. Qi S, Meesters S, Nicolay K, Ter Haar Romeny BM, Ossenblok P. Structural Brain Network: What is the Effect of LiFE Optimization of Whole Brain Tractography? *Front Comput Neurosci*. 2016 Feb 16;10:12. doi: 10.3389/fncom.2016.00012. eCollection 2016. PMID:26909034
109. Esteban O, Caruyer E, Daducci A, Bach-Cuadra M, Ledesma-Carbayo MJ, Santos A. Diffantom: Whole-Brain Diffusion MRI Phantoms Derived from Real Datasets of the **Human Connectome Project**. *Front Neuroinform*. 2016 Feb 5;10:4. doi: 10.3389/fninf.2016.00004. PMID:26903853
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108. Du Y, Allen EA, He H, Sui J, Wu L, Calhoun VD. Artifact removal in the context of group ICA: A comparison of single-subject and group approaches. *Hum Brain Mapp*. 2016 Mar;37(3):1005-25. doi: 10.1002/hbm.23086. Epub 2015 Dec 21. PMID:26859308
107. Langs G, Golland P, Ghosh SS. Predicting Activation Across Individuals with Resting-State Functional Connectivity Based Multi-Atlas Label Fusion. *Med Image Comput Comput Assist Interv*. 2015 Oct;9350:313-320. Epub 2015 Nov 20. PMID:26855977
106. Kasenburg N, Liptrot M, Reislew NL, Ørting SN, Nielsen M, Garde E, Feragen A. Training shortest-path tractography: Automatic learning of spatial priors. *Neuroimage*. 2016 Jan 22. pii: S1053-8119(16)00037-9. doi: 10.1016/j.neuroimage.2016.01.031. [Epub ahead of print] PMID:26804779
- 106a. Aydogan DB, Shi Y. Track Filtering via Iterative Correction of TDI Topology. *Med Image Comput Comput Assist Interv*. 2015 Oct;9349:20-27. Epub 2015 Nov 18. PMID:26798847
105. Boubela RN, Kalcher K, Huf W, Našel C, Moser E. Big Data Approaches for the Analysis of Large-Scale fMRI Data Using Apache Spark and GPU Processing: A Demonstration on Resting-State fMRI Data from the **Human Connectome Project**. *Front Neurosci*. 2016 Jan 6;9:492. doi: 10.3389/fnins.2015.00492. eCollection 2015. PMID:26778951
- 104.** Michalareas G, Vezoli J, van Pelt S, Schoffelen JM, Kennedy H, Fries P. Alpha-Beta and Gamma Rhythms Subserve Feedback and Feedforward Influences among Human Visual Cortical Areas. *Neuron*. 2016 Jan 12. pii: S0896-6273(15)01120-4. doi: 10.1016/j.neuron.2015.12.018. [Epub ahead of print] PMID:26777277
- X 103. Dias NR, Peechatka AL, Janes AC. Insula reactivity to negative stimuli is associated with daily cigarette use: A preliminary investigation using the Human Connectome Database. *Drug Alcohol Depend*. 2016 Feb 1;159:277-80. doi: 10.1016/j.drugalcdep.2015.12.010. Epub 2015 Dec 23. PMID: 26748411
102. Le Reste PJ, Haegelen C, Gibaud B, Moreau T, Morandi X. Connections of the dorsolateral prefrontal cortex with the thalamus: a probabilistic tractography study. *Surg Radiol Anat*. 2015 Dec 22. [Epub ahead of print] PMID:26696378
- 101.** Bernstein GA, Mueller BA, Schreiner MW, Campbell SM, Regan EK, Nelson PM, Houry AK, Lee SS, Zagoloff AD, Lim KO, Yacoub ES, Cullen KR. Abnormal striatal resting-state functional connectivity in adolescents with obsessive-compulsive disorder. *Psychiatry Res*. 2016 Jan 30;247:49-56. doi: 10.1016/j.psychres.2015.11.002. Epub 2015 Nov 19. PMID:26674413
- 100.** Wang Y, Shao X, Martin T, Moeller S, Yacoub E, Wang DJ. Phase-cycled simultaneous multislice balanced SSFP imaging with CAIPIRINHA for efficient banding reduction. *Magn Reson Med*. 2015 Dec 15. doi: 10.1002/mrm.26076. [Epub ahead of print] PMID:26667600
99. Burrow AL, Spreng RN. Waiting with purpose: A reliable but small association between purpose in life and impulsivity. *Pers Individ Dif*. 2016 Feb;90: 187-189. PMID:26640312
- \*-99a. Gómez-Robles A, Hopkins WD, Schapiro SJ, Sherwood CC. Relaxed genetic control of cortical organization in human brains compared with chimpanzees. *Proc Natl Acad Sci U S A*. 2015 Dec 1;112(48):14799-804. doi: 10.1073/pnas.1512646112. Epub 2015 Nov 16. PMID:26627234
98. Jakobsen E, Boettger J, Bellec P, Geyer S, Ruebsamen R, Petrides M, Margulies DS. Subdivision of Broca's region based on individual-level functional connectivity. *Eur J Neurosci*. 2015 Nov 27. doi: 10.1111/ejn.13140. [Epub ahead of print] PMID:26613367
97. Opitz A, Fox MD, Craddock RC, Colcombe S, Milham MP. An integrated framework for targeting functional networks via transcranial magnetic stimulation. *Neuroimage*. 2015 Nov 19;127:86-96. doi: 10.1016/j.neuroimage.2015.11.040. [Epub ahead of print] PMID:26608241
- \*-97a. Neher PF, Descoteaux M, Houde JC, Stieltjes B, Maier-Hein KH. Strengths and weaknesses of state of the art fiber tractography pipelines--A comprehensive in-vivo and phantom evaluation study using Tractometer. *Med Image Anal*. 2015 Dec;26(1):287-305. doi: 10.1016/j.media.2015.10.011. Epub 2015 Nov 10. PMID:26599155
96. Yagmurlu K, Middlebrooks EH, Tanriover N, Rhoton AL Jr. Fiber tracts of the dorsal language stream in the human brain. *J Neurosurg*. 2015 Nov 20:1-10. [Epub ahead of print] PMID:26587654
95. Sochat VV, Gorgolewski KJ, Koyejo O, Durnez J, Poldrack RA. Effects of thresholding on correlation-based image similarity metrics. *Front Neurosci*. 2015 Oct 29;9:418. doi: 10.3389/fnins.2015.00418. eCollection 2015. PMID:26578875
- 94.** Hawrylycz M, Miller JA, Menon V, Feng D, Dolbeare T, Guillozet-Bongaarts AL, Jegga AG, Aronow BJ, Lee CK, Bernard A, Glasser MF, Dierker DL, Menche J, Szafer A, Collman F, Grange P, Berman KA, Mihalas S, Yao Z, Stewart L, Barabási AL, Schulkin J, Phillips J, Ng L, Dang C, Haynor DR, Jones A, Van Essen DC, Koch C, Lein E. Canonical genetic signatures of the adult human brain. *Nat Neurosci*. 2015 Dec;18(12):1832-44. doi: 10.1038/nn.4171. Epub 2015 Nov 16. PMID:26571460

93. Kammen A, Law M, Tjan BS, Toga AW, Shi Y. Automated retinofugal visual pathway reconstruction with multi-shell HARDI and FOD-based analysis. *Neuroimage*. 2016 Jan 15;125:767-79. doi: 10.1016/j.neuroimage.2015.11.005. Epub 2015 Nov 6. PMID:26551261
92. Park BY, Seo J, Yi J, Park H. Structural and Functional Brain Connectivity of People with Obesity and Prediction of Body Mass Index Using Connectivity. *PLoS One*. 2015 Nov 4;10(11):e0141376. doi: 10.1371/journal.pone.0141376. eCollection 2015. PMID:26536135
- \*\*91.** Jbabdi S, Sotiropoulos SN, Haber SN, Van Essen DC, Behrens TE. Measuring macroscopic brain connections in vivo. *Nat Neurosci*. 2015 Nov;18(11):1546-1555. <http://dx.doi.org/10.1038/nn.4134>. Epub 2015 Oct 27. Review. PMID:26505566
- X 90.** Kochunov P, Thompson PM, Winkler A, Morrissey M, Fu M, Coyle TR, Du X, Muellerklein F, Savransky A, Gaudiot C, Sampath H, Eskandar G, Jahanshad N, Patel B, Rowland L, Nichols TE, O'Connell JR, Shuldiner AR, Mitchell BD, Hong LE. The common genetic influence over processing speed and white matter microstructure: Evidence from the Old Order Amish and Human Connectome Projects. *Neuroimage*. 2015 Oct 21. pii: S1053-8119(15)00961-1. <http://dx.doi.org/10.1016/j.neuroimage.2015.10.050>. PMID:26499807
89. Zuo N, Song M, Fan L, Eickhoff SB, Jiang T. Different Interaction Modes for the Default Mode Network Revealed by Resting State Functional MRI. *Eur J Neurosci*. 2015 Oct 23. <http://dx.doi.org/10.1111/ejn.13112>. PMID:26496204
- \*\*88.** Andersson JL, Sotiropoulos SN. An integrated approach to correction for off-resonance effects and subject movement in diffusion MR imaging. *Neuroimage*. 2015 Oct 16. pii: S1053-8119(15)00920-9. <http://dx.doi.org/10.1016/j.neuroimage.2015.10.019>. PMID:26481672
87. van den Heuvel MP, Scholtens LH, Feldman Barrett L, Hilgetag CC, de Reus MA. Bridging Cytoarchitectonics and Connectomics in Human Cerebral Cortex. *J Neurosci*. 2015 Oct 14;35(41):13943-8. <http://dx.doi.org/10.1523/JNEUROSCI.2630-15.2015>. PMID:26468195
86. Jiang X, Li X, Lv J, Zhang T, Zhang S, Guo L, Liu T. Sparse representation of HCP grayordinate data reveals novel functional architecture of cerebral cortex. *Hum Brain Mapp*. 2015 Oct 14. <http://dx.doi.org/10.1002/hbm.23013>. PMID:26466353
- X 85.** Finn ES, Shen X, Scheinost D, Rosenberg MD, Huang J, Chun MM, Papademetris X, Constable RT. Functional connectome fingerprinting: identifying individuals using patterns of brain connectivity. *Nat Neurosci*. 2015 Oct 12. <http://dx.doi.org/10.1038/nn.4135>. PMID:26457551
84. Meola A, Comert A, Yeh FC, Sivakanthan S, Fernandez-Miranda JC. The nondecussating pathway of the dentatorubrothalamic tract in humans: human connectome-based tractographic study and microdissection validation. *J Neurosurg*. 2015 Oct 9:1-7. [Epub ahead of print] PMID:26452117
83. Meola A, Comert A, Yeh FC, Stefanescu L, Fernandez-Miranda JC. The controversial existence of the human superior fronto-occipital fasciculus: Connectome-based tractographic study with microdissection validation. *Hum Brain Mapp*. 2015 Oct 5. <http://dx.doi.org/10.1002/hbm.22990> PMID: 26435158
82. Yoldemir B, Ng B, Abugharbieh R. Stable Overlapping Replicator Dynamics for Brain Community Detection. *IEEE Trans Med Imaging*. 2015 Sep 22. [Epub ahead of print] PMID:26415166
- X 81.** Smith SM, Nichols TE, Vidaurre D, Winkler AM, Behrens TE, Glasser MF, Uğurbil K, Barch DM, Van Essen DC, Miller KL. A positive-negative mode of population covariation links brain connectivity, demographics and behavior. *Nat Neurosci*. 2015 Sep 28. <http://dx.doi.org/10.1038/nn.4125>. PMID: 26414616
- 80.** Gutman BA, Jahanshad N, Ching CR, Wang Y, Kochunov PV, Nichols TE, Thompson PM. Medial Demons Registration Localizes The Degree of Genetic Influence Over Subcortical Shape Variability: An N= 1480 Meta-Analysis. *Proc IEEE Int Symp Biomed Imaging*. 2015 Apr;2015:1402-1406. PMID: 26413211
- 79.** van Baarsen KM, Kleinijnehuus M, Jbabdi S, Sotiropoulos SN, Grotenhuis JA, van Cappellen van Walsum AM. A probabilistic atlas of the cerebellar white matter. *Neuroimage*. 2015 Sep 15;124(Pt A):724-732. <http://dx.doi.org/10.1016/j.neuroimage.2015.09.014>. PMID:26385011
78. Osher D, Tobyne S, Congden K, Michalka S, Somers D. Structural and functional connectivity of visual and auditory attentional networks: insights from the Human Connectome Project. *J Vis*. 2015 Sep 1;15(12):223. <http://dx.doi.org/10.1167/15.12.223>. PMID:26325911
- 77.** Pagliaccio D, Barch DM, Bogdan R, Wood PK, Lynskey MT, Heath AC, Agrawal A. Shared Predisposition in the Association Between Cannabis Use and Subcortical Brain Structure. *JAMA Psychiatry*. 2015 Oct 1;72(10):994-1001. <http://dx.doi.org/10.1001/jamapsychiatry.2015.1054>. PMID:26308883
76. Petrican R, Saverino C, Shayna Rosenbaum R, Grady C. Inter-individual differences in the experience of negative emotion predict variations in functional brain architecture. *Neuroimage*. 2015 Aug 21;123:80-88. <http://dx.doi.org/10.1016/j.neuroimage.2015.08.031>. PMID:26302674
75. Zerbi V, Grandjean J, Rudin M, Wenderoth N. Mapping the mouse brain with rs-fMRI: An optimized pipeline for functional network identification. *Neuroimage*. 2015 Aug 18;123:11-21. <http://dx.doi.org/10.1016/j.neuroimage.2015.07.090>. PMID:26296501
- 74.** Vu AT, Auerbach E, Lenglet C, Moeller S, Sotiropoulos SN, Jbabdi S, Andersson J, Yacoub E, Uğurbil K. High resolution whole brain diffusion imaging at 7T for the Human Connectome Project. *Neuroimage*. 2015 Aug 7;122:318-331. <http://dx.doi.org/10.1016/j.neuroimage.2015.08.004>. PMID:26260428
- \*\*73.** Andersson JL, Sotiropoulos SN. Non-parametric representation and prediction of single- and multi-shell diffusion-weighted MRI data using Gaussian processes. *Neuroimage*. 2015 Nov 15;122:166-76. <http://dx.doi.org/10.1016/j.neuroimage.2015.07.067>. PMID:26236030
72. Diedrichsen J, Zotow E. Surface-Based Display of Volume-Averaged Cerebellar Imaging Data. *PLoS One*. 2015 Jul 31;10(7):e0133402. <http://dx.doi.org/10.1371/journal.pone.0133402>. PMID:26230510
71. Tomasi D, Shokri-Kojori E, Volkow ND. High-Resolution Functional Connectivity Density: Hub Locations, Sensitivity, Specificity, Reproducibility, and Reliability. *Cereb Cortex*. 2015 Jul 28. pii: bhv171. [Epub ahead of print] PMID:26223259
70. Yoldemir B, Ng B, Abugharbieh R. Coupled Stable Overlapping Replicator Dynamics for Multimodal Brain Subnetwork Identification. *Inf Process Med Imaging*. 2015;24:770-81. PMID:26221717
69. Parisot S, Arslan S, Passerat-Palmbach J, Wells WM 3rd, Rueckert D. Tractography-Driven Groupwise Multi-scale Parcellation of the Cortex. *Inf Process Med Imaging*. 2015;24:600-12. PMID:26221706

68. Joshi AA, Salloum R, Bhushan C, Leahy RM. Measuring Asymmetric Interactions in Resting State Brain Networks. *Inf Process Med Imaging*. 2015;24:399-410. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4519983/> PMID:26221690
67. Arslan S, Parisot S, Rueckert D. Joint Spectral Decomposition for the Parcellation of the Human Cerebral Cortex Using Resting-State fMRI. *Inf Process Med Imaging*. 2015;24:85-97. PMID:26221668
66. Beukema P, Yeh FC, Verstynen T. In vivo characterization of the connectivity and subcomponents of the human globus pallidus. *Neuroimage*. 2015 Oct 15;120:382-93. <http://dx.doi.org/10.1016/j.neuroimage.2015.07.031>. PMID:26196668
65. Szalkai B, Varga B, Grolmusz V. Graph Theoretical Analysis Reveals: Women's Brains Are Better Connected than Men's. *PLoS One*. 2015 Jul 1;10(7):e0130045. <http://dx.doi.org/10.1371/journal.pone.0130045>. PMID:26132764
64. Winkler AM, Webster MA, Vidaurre D, Nichols TE, Smith SM. Multi-level block permutation. *Neuroimage*. 2015 Jun 11. pii: S1053-8119(15)00508-X. <http://dx.doi.org/10.1016/j.neuroimage.2015.05.092>. PMID:26074200
63. Scholtens LH, de Reus MA, van den Heuvel MP. Linking contemporary high resolution magnetic resonance imaging to the von Economo legacy: A study on the comparison of MRI cortical thickness and histological measurements of cortical structure. *Hum Brain Mapp*. 2015 Aug;36(8):3038-46. <http://dx.doi.org/10.1002/hbm.22826>. PMID:25988402
62. Kaden E, Kruggel F, Alexander DC. Quantitative mapping of the per-axon diffusion coefficients in brain white matter. *Magn Reson Med*. 2015 May 13. <http://dx.doi.org/10.1002/mrm.25734>. PMID:25974332
61. Tran G, Shi Y. Fiber Orientation and Compartment Parameter Estimation from Multi-Shell Diffusion Imaging. *IEEE Trans Med Imaging*. 2015 May 7. [Epub ahead of print] PMID:25966471
60. Hodge MR, Horton W, Brown T, Herrick R, Olsen T, Hileman ME, McKay M, Archie KA, Cler E, Harms MP, Burgess GC, Glasser MF, Elam JS, Curtiss SW, Barch DM, Oostenveld R, Larson-Prior LJ, Ugurbil K, Van Essen DC, Marcus DS. ConnectomeDB-Sharing human brain connectivity data. *Neuroimage*. 2015 Apr 29. pii: S1053-8119(15)00346-8. <http://dx.doi.org/10.1016/j.neuroimage.2015.04.046>. PMID:25934470
59. Szalkai B, Kerepesi C, Varga B, Grolmusz V. The Budapest Reference Connectome Server v2.0. *Neurosci Lett*. 2015 May 19;595:60-2. <http://dx.doi.org/10.1016/j.neulet.2015.03.071>. PMID:25862487
58. Colclough GL, Brookes MJ, Smith SM, Woolrich MW. A symmetric multivariate leakage correction for MEG connectomes. *Neuroimage*. 2015 Aug 15;117:439-48. <http://dx.doi.org/10.1016/j.neuroimage.2015.03.071>. PMID:25862259
57. Zhao S, Han J, Lv J, Jiang X, Hu X, Zhao Y, Ge B, Guo L, Liu T. Supervised Dictionary Learning for Inferring Concurrent Brain Networks. *IEEE Trans Med Imaging*. 2015 Oct;34(10):2036-45. <http://dx.doi.org/10.1109/TMI.2015.2418734>. PMID:25838519
56. Minati L, Chiesa P, Tabarelli D, D'Incerti L, Jovicich J. Synchronization, non-linear dynamics and low-frequency fluctuations: analogy between spontaneous brain activity and networked single-transistor chaotic oscillators. *Chaos*. 2015 Mar;25(3):033107. <http://dx.doi.org/10.1063/1.4914938>. PMID:25833429
55. Wang X, Pathak S, Stefaneanu L, Yeh FC, Li S, Fernandez-Miranda JC. Subcomponents and connectivity of the superior longitudinal fasciculus in the human brain. *Brain Struct Funct*. 2015 Mar 18. [Epub ahead of print] <http://link.springer.com/article/10.1007%2Fs00429-015-1028-5> PMID:25782434
54. Pizzella V, Marzetti L, Della Penna S, de Pasquale F, Zappasodi F, Romani GL. Magnetoencephalography in the study of brain dynamics. *Funct Neurol*. 2014 Oct-Dec;29(4):241-53. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4370437/> PMID:25764254
53. Kochunov P, Jahanshad N, Marcus D, Winkler A, Sprooten E, Nichols TE, Wright SN, Hong LE, Patel B, Behrens T, Jbabdi S, Andersson J, Lenglet C, Yacoub E, Moeller S, Auerbach E, Ugurbil K, Sotiropoulos SN, Brouwer RM, Landman B, Lemaitre H, den Braber A, Zwiers MP, Ritchie S, van Hulzen K, Almasy L, Curran J, deZubicaray GI, Duggirala R, Fox P, Martin NG, McMahon KL, Mitchell B, Olvera RL, Peterson C, Starr J, Sussmann J, Wardlaw J, Wright M, Boomsma DI, Kahn R, de Geus EJ, Williamson DE, Hariri A, van 't Ent D, Bastin ME, McIntosh A, Deary IJ, Hulshoff Pol HE, Blangero J, Thompson PM, Glahn DC, Van Essen DC. Heritability of fractional anisotropy in human white matter: a comparison of Human Connectome Project and ENIGMA-DTI data. *Neuroimage*. 2015 May 1;111:300-11. <http://dx.doi.org/10.1016/j.neuroimage.2015.02.050>. PMID:25747917
52. Zhang S, Li X, Lv J, Jiang X, Guo L, Liu T. Characterizing and differentiating task-based and resting state fMRI signals via two-stage sparse representations. *Brain Imaging Behav*. 2015 Mar 3. [Epub ahead of print] <http://link.springer.com/article/10.1007%2Fs11682-015-9359-7> PMID:25732072
51. Lunven M, Thiebaut De Schotten M, Bourlon C, Duret C, Migliaccio R, Rode G, Bartolomeo P. White matter lesional predictors of chronic visual neglect: a longitudinal study. *Brain*. 2015 Mar;138(Pt 3):746-60. <http://dx.doi.org/10.1093/brain/awu389>. PMID:25609686
50. Harrison SJ, Woolrich MW, Robinson EC, Glasser MF, Beckmann CF, Jenkinson M, Smith SM. Large-scale probabilistic functional modes from resting state fMRI. *Neuroimage*. 2015 Jan 15. pii: S1053-8119(15)00020-8. <http://dx.doi.org/10.1016/j.neuroimage.2015.01.013>. PMID:25598050
49. Yuhui Du, Allen EA, Hao He, Jing Sui, Calhoun VD. Brain functional networks extraction based on fMRI artifact removal: Single subject and group approaches. *Conf Proc IEEE Eng Med Biol Soc*. 2014:1026-9. doi: <http://dx.doi.org/10.1109/EMBC.2014.6943768>. PMID: 25570136
48. Galinsky VL, Frank LR. Simultaneous multi-scale diffusion estimation and tractography guided by entropy spectrum pathways. *IEEE Trans Med Imaging*. 2015 May;34(5):1177-93. <http://dx.doi.org/10.1109/TMI.2014.2380812>. PMID:25532167
47. Zhu D, Lv J, Chen H, Liu T. Group-wise optimization of common brain landmarks with joint structural and functional regulations. *Med Image Comput Comput Assist Interv*. 2014;17(Pt 2):716-23. PMID:25485443
46. Scott G, Hellyer PJ, Hampshire A, Leech R. Exploring spatiotemporal network transitions in task functional MRI. *Hum Brain Mapp*. 2015 Apr;36(4):1348-64. <http://dx.doi.org/10.1002/hbm.22706>. PMID:25504834



45. Chen L, T Vu A, Xu J, Moeller S, Ugurbil K, Yacoub E, Feinberg DA. Evaluation of highly accelerated simultaneous multi-slice EPI for fMRI. *Neuroimage*. 2015 Jan 1;104:452-9. <http://dx.doi.org/10.1016/j.neuroimage.2014.10.027>. PMID:25462696
44. Li X, Wang D, Auerbach EJ, Moeller S, Ugurbil K, Metzger GJ. Theoretical and experimental evaluation of multi-band EPI for high-resolution whole brain pCASL Imaging. *Neuroimage*. 2015 Feb 1;106:170-81. <http://dx.doi.org/10.1016/j.neuroimage.2014.10.029>. PMID:25462690
43. Lv J, Jiang X, Li X, Zhu D, Zhang S, Zhao S, Chen H, Zhang T, Hu X, Han J, Ye J, Guo L, Liu T. Holistic Atlases of Functional Networks and Interactions Reveal Reciprocal Organizational Architecture of Cortical Function. *IEEE Trans Biomed Eng*. 2014 Nov 20. <http://dx.doi.org/10.1109/TBME.2014.2369495> PMID: 25420254
42. Oates CJ, Costa L, Nichols TE. Toward a multisubject analysis of neural connectivity. *Neural Comput*. 2015 Jan;27(1):151-70. [http://dx.doi.org/10.1162/NECO\\_a\\_00690](http://dx.doi.org/10.1162/NECO_a_00690). PMID:25380333
41. Schober M, Kasenburg N, Feragen A, Hennig P, Hauberg S. Probabilistic shortest path tractography in DTI using Gaussian Process ODE solvers. *Med Image Comput Comput Assist Interv*. 2014; 17(Pt 3):265-72. PMID: 25320808
40. Alexander DC, Zikic D, Zhang J, Zhang H, Criminisi A. Image quality transfer via random forest regression: applications in diffusion MRI. *Med Image Comput Comput Assist Interv*. 2014; 17(Pt 3):225-32. PMID: 25320803
39. Phlypo R, Thirion B, Varoquaux G. Deriving a multi-subject functional-connectivity atlas to inform connectome estimation. 2014. *Med Image Comput Comput Assist Interv*. 2014; 17(Pt 3):185-92. PMID: 25320798
38. Middlebrooks EH, Yagmurlu K, Bennett JA, Bidari S. Normal relationship of the cervicomedullary junction with the obex and olivary bodies: a comparison of cadaveric dissection and in vivo diffusion tensor imaging. *Surg Radiol Anat*. 2015 Jul;37(5):493-7. <http://dx.doi.org/10.1007/s00276-014-1387-2>. PMID:25318624
- \*\*37.** Gordon EM, Laumann TO, Adeyemo B, Huckins JF, Kelley WM, Petersen SE. Generation and Evaluation of a Cortical Area Parcellation from Resting-State Correlations. *Cereb Cortex*. 2014 Oct 14. <http://dx.doi.org/10.1093/cercor/bhu239> PMID: 25316338
36. Cassidy B, Rae C, Solo V. Brain activity: connectivity, sparsity, and mutual information. *IEEE Trans Med Imaging*. 2015 Apr;34(4):846-60. <http://dx.doi.org/10.1109/TMI.2014.2358681>. PMID:25252277
35. Baroni A, Castellanos FX. Neuroanatomic and cognitive abnormalities in attention-deficit/hyperactivity disorder in the era of 'high definition' neuroimaging. *Curr Opin Neurobiol*. 2014 Sep 8; 30C:1-8. [Epub ahead of print] <http://dx.doi.org/10.1016/j.conb.2014.08.005>. PMID: 25212469
34. Pestilli F, Yeatman JD, Rokem A, Kay KN, Wandell BA. Evaluation and statistical inference for human connectomes. *Nat Methods*. 2014 Sep 7. <http://dx.doi.org/10.1038/nmeth.3098>. PMID: 25194848
33. Kim J, Lenglet C, Duchin Y, Sapiro G, Harel N. Semiautomatic segmentation of brain subcortical structures from high-field MRI. *IEEE J Biomed Health Inform*. 2014 Sep;18(5):1678-95. <http://dx.doi.org/10.1109/JBHI.2013.2292858>. PMID:25192576
32. Hillebrandt H, Friston KJ, Blakemore SJ. Effective connectivity during animacy perception - dynamic causal modelling of Human Connectome Project data. *Scientific Reports*. 2014; 4:6240. <http://dx.doi.org/10.1038/srep06240>. PMID: 25174814
31. Jia H, Hu X, Deshpande G. Behavioral relevance of the dynamics of functional brain connectome. *Brain Connect*. 2014 Aug 27. <http://dx.doi.org/10.1089/brain.2014.0300>. PMID: 25163490
30. Jeurissen B, Tournier JD, Dhollander T, Connelly A, Sijbers J. Multi-tissue constrained spherical deconvolution for improved analysis of multi-shell diffusion MRI data. *Neuroimage*. 2014 Dec;103:411-26. <http://dx.doi.org/10.1016/j.neuroimage.2014.07.061>. PMID:25109526
29. Cheng J, Deriche R, Jiang T, Shen D, Yap PT. Non-Negative Spherical Deconvolution (NNSD) for estimation of fiber Orientation Distribution Function in single-/multi-shell diffusion MRI. *Neuroimage*. 2014 Nov 1;101:750-64. <http://dx.doi.org/10.1016/j.neuroimage.2014.07.062>. PMID:25108182
28. Smith SM, Hyvärinen A, Varoquaux G, Miller KL, Beckmann CF. Group-PCA for very large fMRI datasets. *Neuroimage*. 2014 Aug 3. <http://dx.doi.org/10.1016/j.neuroimage.2014.07.051>. PMID: 25094018
27. Herrick R, McKay M, Olsen T, Horton W, Florida M, Moore CJ, Marcus DS. Data dictionary services in XNAT and the Human Connectome Project. *Front Neuroinform*. 2014 Jul 3; 8:65. <http://dx.doi.org/10.3389/fninf.2014.00065>. PMID: 25071542
26. Minati L, Zacà D, D'Incerti L, Jovicich J. Fast computation of voxel-level brain connectivity maps from resting-state functional MRI using l1-norm as approximation of Pearson's temporal correlation: proof-of-concept and example vector hardware implementation. *Medical Engineering & Physics*. 2014 Sep; 36(9):1212-7. <http://dx.doi.org/10.1016/j.medengphy.2014.06.012>. PMID: 25023958
25. Cole MW, Bassett DS, Power JD, Braver TS, Petersen SE. Intrinsic and task-evoked network architectures of the human brain. *Neuron*. 2014 Jul 2; 83(1):238-51. <http://dx.doi.org/10.1016/j.neuron.2014.05.014>. PMID: 24991964
24. Zalesky A, Fornito A, Cocchi L, Gollo LL, Breakspear M. Time-resolved resting-state brain networks. *Proc Natl Acad Sci U S A*. 2014 Jul 15; 111(28):10341-6. <http://dx.doi.org/10.1073/pnas.1400181111>. PMID: 24982140
23. Abdollahi RO, Kolster H, Glasser MF, Robinson EC, Coalson TS, Dierker D, Jenkinson M, Van Essen DC, Orban GA. Correspondences between retinotopic areas and myelin maps in human visual cortex. *Neuroimage*. 2014 Oct 1; 99:509-24. <http://dx.doi.org/10.1016/j.neuroimage.2014.06.042>. PMID: 24971513
22. McDonough IM, Nashiro K. Network complexity as a measure of information processing across resting-state networks: evidence from the Human Connectome Project. *Front Hum Neurosci*. 2014 Jun 10; 8:409. <http://dx.doi.org/10.3389/fnhum.2014.00409>. PMID: 24959130
21. Robinson EC, Jbabdi S, Glasser MF, Andersson J, Burgess GC, Harms MP, Smith SM, Van Essen DC, Jenkinson M. MSM: A new flexible framework for Multimodal Surface Matching. *Neuroimage*. 2014 Oct; 100:414-26. <http://dx.doi.org/10.1016/j.neuroimage.2014.05.069>. PMID: 24939340

\*\*20. Jiang L, Xu T, He Y, Hou XH, Wang J, Cao XY, Wei GX, Yang Z, He Y, Zuo XN. Toward neurobiological characterization of functional homogeneity in the human cortex: Regional variation, morphological association and functional covariance network organization. *Brain Struct Funct*. 2014. <http://dx.doi.org/10.1007/s00429-014-0795-8>. PMID: 24903825

19. Leech R, Scott G, Carhart-Harris R, Turkheimer F, Taylor-Robinson SD, Sharp DJ. Spatial dependencies between large-scale brain networks. *PLoS One*. 2014 Jun 2;9(6):e98500. <http://dx.doi.org/10.1371/journal.pone.0098500>. PMID: 24887067

\*\*18. Xi-Nian Zuo and Xiu-Xia Xing. Test-retest reliabilities of resting-state fMRI measurements in human brain functional connectomics: A systems neuroscience perspective. *Neurosci Biobehav Rev*. 2014; 45:100-118. <http://dx.doi.org/10.1016/j.neubiorev.2014.05.009>. PMID: 24875392

17. Li H, Nickerson LD, Xiong J, Zou Q, Fan Y, Ma Y, Shi T, Ge J, Gao JH. A high performance 3D cluster-based test of unsmoothed fMRI data. *Neuroimage*. 2014 Sep; 98:537-46. <http://dx.doi.org/10.1016/j.neuroimage.2014.05.015>. PMID: 24836011

16. Vergani F, Lacerda L, Martino J, Attems J, Morris C, Mitchell P, Thiebaut de Schotten M, Dell'acqua F. White matter connections of the supplementary motor area in humans. *J Neurol Neurosurg Psychiatry*. 2014 Apr 16. <http://dx.doi.org/10.1136/jnnp-2013-307492>. PMID: 24741063

15. Ugurbil K. Magnetic resonance imaging at ultrahigh fields. *IEEE Trans Biomed Eng*. 2014 May; 61(5):1364-79. <http://dx.doi.org/10.1109/TBME.2014.2313619>. PMID: 24686229

14. Griffanti L, Salimi-Khorshidi G, Beckmann CF, Auerbach EJ, Douaud G, Sexton CE, Zsoldos E, Ebmeier KP, Filippini N, Mackay CE, Moeller S, Xu J, Yacoub E, Baselli G, Ugurbil K, Miller KL, Smith SM. ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. *Neuroimage*. 2014 Jul 15; 95:232-47. <http://dx.doi.org/10.1016/j.neuroimage.2014.03.034>. PMID: 24657355

13. Tran G, Shi Y. Adaptively constrained convex optimization for accurate fiber orientation estimation with high order spherical harmonics. *Med Image Comput Comput Assist Interv*. 2013; 16(Pt 3):485-92. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4041692/> PMID: 24505797

12. Chen H, Zhang T, Liu T. Identifying group-wise consistent white matter landmarks via novel fiber shape descriptor. *Med Image Comput Comput Assist Interv*. 2013; 16(Pt 1):66-73. PMID: 24505650

11. Chella F, Marzetti L, Pizzella V, Zappasodi F, Nolte G. Third order spectral analysis robust to mixing artifacts for mapping cross-frequency interactions in EEG/MEG. *Neuroimage*. 2014 May 1; 91:146-61. <http://dx.doi.org/10.1016/j.neuroimage.2013.12.064>. PMID: 24418509

10. Long X, Goltz D, Margulies DS, Nierhaus T, Villringer A. Functional connectivity-based parcellation of the human sensorimotor cortex. *Eur J Neurosci*. 2014 Apr; 39(8):1332-42. <http://dx.doi.org/10.1111/ejn.12473>. PMID: 24417550

9. Salimi-Khorshidi G, Douaud G, Beckmann CF, Glasser MF, Griffanti L, Smith SM. Automatic denoising of functional MRI data: combining independent component analysis and hierarchical fusion of classifiers. *Neuroimage*. 2014 Apr 15; 90:449-68. <http://dx.doi.org/10.1016/j.neuroimage.2013.11.046>. PMID: 24389422

8. Webb JT, Ferguson MA, Nielsen JA, Anderson JS. BOLD Granger causality reflects vascular anatomy. *PLoS One*. 2013 Dec 13; 8(12):e84279. <http://dx.doi.org/10.1371/journal.pone.0084279>. PMID: 24349569

7. Duarte-Carvajalino JM, Lenglet C, Xu J, Yacoub E, Ugurbil K, Moeller S, Carin L, Sapiro G. Estimation of the CSA-ODF using Bayesian compressed sensing of multi-shell HARDI. *Magn Reson Med*. 2013 Dec 12. <http://dx.doi.org/10.1002/mrm.25046>. PMID: 24338816

6. Smith SM, Vidaurre D, Beckmann CF, Glasser MF, Jenkinson M, Miller KL, Nichols TE, Robinson EC, Salimi-Khorshidi G, Woolrich MW, Barch DM, Uurbil K, Van Essen DC. Functional connectomics from resting-state fMRI. *Trends Cogn Sci*. 2013 Dec; 17(12):666-82. <http://dx.doi.org/10.1016/j.tics.2013.09.016>. PMID: 24238796

5. Yeo BT, Krienen FM, Chee MW, Buckner RL. Estimates of segregation and overlap of functional connectivity networks in the human cerebral cortex. *Neuroimage*. 2013 Nov 1; 88C:212-227. <http://dx.doi.org/10.1016/j.neuroimage.2013.10.046>. PMID: 24185018

4. Van Essen DC. Cartography and connectomes. *Neuron*. 2013 Oct 30; 80(3):775-90. <http://dx.doi.org/10.1016/j.neuron.2013.10.027>. PMID: 24183027

3. Power JD, Mitra A, Laumann TO, Snyder AZ, Schlaggar BL, Petersen SE. Methods to detect, characterize, and remove motion artifact in resting state fMRI. *Neuroimage*. 2014 Jan 1; 84:320-41. <http://dx.doi.org/10.1016/j.neuroimage.2013.08.048>. PMID: 23994314

2. Xu J, Moeller S, Auerbach EJ, Strupp J, Smith SM, Feinberg DA, Yacoub E, Uurbil K. Evaluation of slice accelerations using multiband echo planar imaging at 3 T. *Neuroimage*. 2013 Dec; 83:991-1001. <http://dx.doi.org/10.1016/j.neuroimage.2013.07.055>. PMID: 23899722

1. Wig GS, Laumann TO, Petersen SE. An approach for parcellating human cortical areas using resting-state correlations. *Neuroimage*. 2014 Jun; 93 Pt 2: 276-91. <http://dx.doi.org/10.1016/j.neuroimage.2013.07.035>. PMID: 23876247

69 Independent Investigator (non-HCP) publications using HCP data/methods (as of Feb 11, 2016).

39 WU-Minn HCP consortium publications listed above (as of Feb 11, 2016)

+33 WU-Minn HCP consortium publications between grant start and Q1 release in March 2013.

For publications produced by the HCP consortium and collaborators, since the inception of HCP in 2010, please see <http://humanconnectome.org/about/publications.html>.