ABCD Human Subject Study

Adolescent Brain Cognitive Development – ABCDSTUDY.org

Release Notes: Adolescent Brain Cognitive Development℠ (ABCD) Study Data Release 4.0

Supplementary Imaging Tables

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Change Log

October 2021 - Data Release 4.0
- Initial release

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General Information

The following information refers to the Adolescent Brain Cognitive Development[SM] (ABCD) Study Data Release 4.0 available from https://nda.nih.gov/abcd. An overview of the ABCD Study[®] is at https://abcdstudy.org and detailed descriptions of elements of the study are listed in https://abcdstudy.org/scientists/protocols.

This document describes the contents of various instruments available for download. To understand the context of this information, see *Release Notes ABCD README FIRST* and *Release Notes ABCD Imaging Instruments*.

This supplementary material features region of interest (ROI) names and descriptions for subcortical regions (aseg), cortical parcels (Desikan, Destrieux and Gordon), and fiber tracts (AtlasTrack); task fMRI contrasts of conditions (MID, SST, and nBack); names and descriptions of RSI measures.

Table 1. Cortical regions defined by anatomical parcellation (aparc) of the Desikan atlas included in sMRI, dMRI, and fMRI analyses

Desikan, R.S., Segonne, F., Fischl, B., Quinn, B.T., Dickerson, B.C., Blacker, D., Buckner, R.L., Dale, A.M., Maguire, R.P., Hyman, B.T., Albert, M.S., Killiany, R.J. (2006) An automated labeling system for subdividing the human cerebral cortex on MRI scans into gyral based regions of interest. Neuroimage, 31:968-80.

ROI name	Description
cortdesikan_banksstslh	banks of superior temporal sulcus (left hemisphere)
cortdesikan_caudalanteriorcingulatelh	caudalanteriorcingulate (left hemisphere)
cortdesikan_caudalmiddlefrontallh	caudalmiddlefrontal (left hemisphere)
cortdesikan_cuneuslh	cuneus (left hemisphere)
cortdesikan_entorhinallh	entorhinal (left hemisphere)
cortdesikan_fusiformlh	fusiform (left hemisphere)
cortdesikan_inferiorparietallh	inferiorparietal (left hemisphere)
cortdesikan_inferiortemporallh	inferiortemporal (left hemisphere)
cortdesikan_isthmuscingulatelh	isthmuscingulate (left hemisphere)
cortdesikan_lateraloccipitallh	lateraloccipital (left hemisphere)
cortdesikan_lateralorbitofrontallh	lateralorbitofrontal (left hemisphere)
cortdesikan_linguallh	lingual (left hemisphere)
cortdesikan_medialorbitofrontallh	medialorbitofrontal (left hemisphere)
cortdesikan_middletemporallh	middletemporal (left hemisphere)
cortdesikan_parahippocampallh	parahippocampal (left hemisphere)
cortdesikan_paracentrallh	paracentral (left hemisphere)
cortdesikan_parsopercularislh	parsopercularis (left hemisphere)
cortdesikan_parsorbitalislh	parsorbitalis (left hemisphere)
cortdesikan_parstriangularislh	parstriangularis (left hemisphere)
cortdesikan_pericalcarinelh	pericalcarine (left hemisphere)
cortdesikan_postcentrallh	postcentral (left hemisphere)
cortdesikan_posteriorcingulatelh	posteriorcingulate (left hemisphere)
cortdesikan_precentrallh	precentral (left hemisphere)
cortdesikan_precuneuslh	precuneus (left hemisphere)
cortdesikan_rostralanteriorcingulatelh	rostralanteriorcingulate (left hemisphere)
cortdesikan_rostralmiddlefrontallh	rostralmiddlefrontal (left hemisphere)
cortdesikan_superiorfrontallh	superiorfrontal (left hemisphere)
cortdesikan_superiorparietallh	superiorparietal (left hemisphere)
cortdesikan_superiortemporallh	superiortemporal (left hemisphere)

cortdesikan_supramarginallh	supramarginal (left hemisphere)
cortdesikan_frontalpolelh	frontalpole (left hemisphere)
cortdesikan_temporalpolelh	temporalpole (left hemisphere)
cortdesikan_transversetemporallh	transversetemporal (left hemisphere)
cortdesikan_insulalh	insula (left hemisphere)
cortdesikan_banksstsrh	banks of superior temporal sulcus (right hemisphere)
cortdesikan_caudalanteriorcingulaterh	caudalanteriorcingulate (right hemisphere)
cortdesikan_caudalmiddlefrontalrh	caudalmiddlefrontal (right hemisphere)
cortdesikan_cuneusrh	cuneus (right hemisphere)
cortdesikan_entorhinalrh	entorhinal (right hemisphere)
cortdesikan_fusiformrh	fusiform (right hemisphere)
cortdesikan_inferiorparietalrh	inferiorparietal (right hemisphere)
cortdesikan_inferiortemporalrh	inferiortemporal (right hemisphere)
cortdesikan_isthmuscingulaterh	isthmuscingulate (right hemisphere)
cortdesikan_lateraloccipitalrh	lateraloccipital (right hemisphere)
cortdesikan_lateralorbitofrontalrh	lateralorbitofrontal (right hemisphere)
cortdesikan_lingualrh	lingual (right hemisphere)
cortdesikan_medialorbitofrontalrh	medialorbitofrontal (right hemisphere)
cortdesikan_middletemporalrh	middletemporal (right hemisphere)
cortdesikan_parahippocampalrh	parahippocampal (right hemisphere)
cortdesikan_paracentralrh	paracentral (right hemisphere)
cortdesikan_parsopercularisrh	parsopercularis (right hemisphere)
cortdesikan_parsorbitalisrh	parsorbitalis (right hemisphere)
cortdesikan_parstriangularisrh	parstriangularis (right hemisphere)
cortdesikan_pericalcarinerh	pericalcarine (right hemisphere)
cortdesikan_postcentralrh	postcentral (right hemisphere)
cortdesikan_posteriorcingulaterh	posteriorcingulate (right hemisphere)
cortdesikan_precentralrh	precentral (right hemisphere)
cortdesikan_precuneusrh	precuneus (right hemisphere)
cortdesikan_rostralanteriorcingulaterh	rostralanteriorcingulate (right hemisphere)
cortdesikan_rostralmiddlefrontalrh	rostralmiddlefrontal (right hemisphere)
cortdesikan_superiorfrontalrh	superiorfrontal (right hemisphere)
cortdesikan_superiorparietalrh	superiorparietal (right hemisphere)
cortdesikan_superiortemporalrh	superiortemporal (right hemisphere)
cortdesikan_supramarginalrh	supramarginal (right hemisphere)
cortdesikan_frontalpolerh	frontalpole (right hemisphere)
cortdesikan_temporalpolerh	temporalpole (right hemisphere)

cortdesikan_transversetemporalrh	transversetemporal (right hemisphere)
cortdesikan_insularh	insula (right hemisphere)
cortdesikan _mean.lh	mean (left hemisphere)
cortdesikan _mean.rh	mean (right hemisphere)
cortdesikan _mean	mean (bilateral)
cortdesikan _total.lh	total (left hemisphere - area and volume)
cortdesikan _total.rh	total (right hemisphere - area and volume)
cortdesikan _total	total (bilateral - area and volume)

Table 2. Cortical regions defined by anatomical parcellation (aparc2) of the Destrieux atlas included in sMRI, dMRI, and fMRI analyses

Destrieux C, Fischl B, Dale A, Halgren E. (2010) Automatic parcellation of human cortical gyri and sulci using standard anatomical nomenclature. Neuroimage. 2010 Oct 15;53(1):1-15.

ROI Name	Description
cort.destrieux_g.and.s.frontomargin.lh	fronto-marginal gyrus and sulcus (left hemisphere)
cort.destrieux_g.and.s.occipital.inf.lh	inferior occipital gyrus and sulcus (left hemisphere)
cort.destrieux_g.and.s.paracentral.lh	paracentral lobule and sulcus (left hemisphere)
cort.destrieux_g.and.s.subcentral.lh	subcentral gyrus and sulci (left hemisphere)
cort.destrieux_g.and.s.transv.frontopol.lh	transverse frontopolar gyri and sulci (left hemisphere)
cort.destrieux_g.and.s.cingul.ant.lh	anterior part of the cingulate gyrus and sulcus (left hemisphere)
cort.destrieux_g.and.s.cingul.mid.ant.lh	middle-anterior part of the cingulate gyrus and sulcus (left hemisphere)
cort.destrieux_g.and.s.cingul.mid.post.lh	middle-posterior part of the cingulate gyrus and sulcus (left hemisphere)
cort.destrieux_g.cingul.post.dorsal.lh	posterior-dorsal part of the cingulate gyrus (left hemisphere)
cort.destrieux_g.cingul.post.ventral.lh	posterior-ventral part of the cingulate gyrus (left hemisphere)
cort.destrieux_g.cuneus.lh	cuneus (left hemisphere)
cort.destrieux_g.front.inf.opercular.lh	opercular part of the inferior frontal gyrus (left hemisphere)
cort.destrieux_g.front.inf.orbital.lh	orbital part of the inferior frontal gyrus (left hemisphere)
cort.destrieux_g.front.inf.triangul.lh	triangular part of the inferior frontal gyrus (left hemisphere)
cort.destrieux_g.front.middle.lh	middle frontal gyrus (left hemisphere)
cort.destrieux_g.front.sup.lh	superior frontal gyrus (left hemisphere)
cort.destrieux_g.ins.lg.and.s.cent.ins.lh	long insular gyrus and central sulcus of the insula (left hemisphere)
cort.destrieux_g.insular.short.lh	short insular gyri (left hemisphere)
cort.destrieux_g.occipital.middle.lh	middle occipital gyrus (left hemisphere)
cort.destrieux_g.occipital.sup.lh	superior occipital gyrus (left hemisphere)
cort.destrieux_g.oc.temp.lat.fusifor.lh	lateral occipito-temporal gyrus (left hemisphere)
cort.destrieux_g.oc.temp.med.lingual.lh	lingual gyrus (left hemisphere)
cort.destrieux_g.oc.temp.med.parahip.lh	parahippocampal gyrus (left hemisphere)
cort.destrieux_g.orbital.lh	orbital gyri (left hemisphere)
cort.destrieux_g.pariet.inf.angular.lh	angular gyrus (left hemisphere)
cort.destrieux_g.pariet.inf.supramar.lh	supramarginal gyrus (left hemisphere)
cort.destrieux_g.parietal.sup.lh	superior parietal lobule (left hemisphere)
cort.destrieux_g.postcentral.lh	postcentral gyrus (left hemisphere)

cort.destrieux_g.precentral.lh	precentral gyrus (left hemisphere)
cort.destrieux_g.precuneus.lh	precuneus (left hemisphere)
cort.destrieux_g.rectus.lh	gyrus rectus (left hemisphere)
cort.destrieux_g.subcallosal.lh	subcallosal gyrus (left hemisphere)
cort.destrieux_g.temp.sup.g.t.transv.lh	anterior transverse temporal gyrus (left hemisphere)
cort.destrieux_g.temp.sup.lateral.lh	lateral aspect of the superior temporal gyrus (left hemisphere)
cort.destrieux_g.temp.sup.plan.polar.lh	planum polare of the superior temporal gyrus (left hemisphere)
cort.destrieux_g.temp.sup.plan.tempo.lh	planum temporale (left hemisphere)
cort.destrieux_g.temporal.inf.lh	inferior temporal gyrus (left hemisphere)
cort.destrieux_g.temporal.middle.lh	middle temporal gyrus (left hemisphere)
cort.destrieux_lat.fis.ant.horizont.lh	horizontal ramus of the anterior segment of the lateral sulcus (left hemisphere)
cort.destrieux_lat.fis.ant.vertical.lh	vertical ramus of the anterior segment of the lateral sulcus (left hemisphere)
cort.destrieux_lat.fis.post.lh	posterior ramus of the lateral sulcus (left hemisphere)
cort.destrieux_pole.occipital.lh	occipital pole (left hemisphere)
cort.destrieux_pole.temporal.lh	temporal pole (left hemisphere)
cort.destrieux_s.calcarine.lh	calcarine sulcus (left hemisphere)
cort.destrieux_s.central.lh	central sulcus (left hemisphere)
cort.destrieux_s.cingul.marginalis.lh	marginal branch of the cingulate sulcus (left hemisphere)
cort.destrieux_s.circular.insula.ant.lh	anterior segment of the circular sulcus of the insula (left hemisphere)
cort.destrieux_s.circular.insula.inf.lh	inferior segment of the circular sulcus of the insula (left hemisphere)
cort.destrieux_s.circular.insula.sup.lh	superior segment of the circular sulcus of the insula (left hemisphere)
cort.destrieux_s.collat.transv.ant.lh	anterior transverse collateral sulcus (left hemisphere)
cort.destrieux_s.collat.transv.post.lh	posterior transverse collateral sulcus (left hemisphere)
cort.destrieux_s.front.inf.lh	inferior frontal sulcus (left hemisphere)
cort.destrieux_s.front.middle.lh	middle frontal sulcus (left hemisphere)
cort.destrieux_s.front.sup.lh	superior frontal sulcus (left hemisphere)
cort.destrieux_s.interm.prim.jensen.lh	sulcus intermedius primus (left hemisphere)
cort.destrieux_s.intrapariet.and.p.trans.lh	intraparietal sulcus and transverse parietal sulci (left hemisphere)
cort.destrieux_s.oc.middle.and.lunatus.lh	middle occipital sulcus and lunatus sulcus (left hemisphere)
cort.destrieux_s.oc.sup.and.transversal.lh	superior occipital sulcus and transverse occipital sulcus (left hemisphere)
cort.destrieux_s.occipital.ant.lh	anterior occipital sulcus and preoccipital notch (left hemisphere)
cort.destrieux_s.oc.temp.lat.lh	lateral occipito-temporal sulcus (left hemisphere)

cort.destrieux_s.oc.temp.med.and.lingual.lh	medial occipito-temporal sulcus and lingual sulcus (left hemisphere)
cort.destrieux_s.orbital.lateral.lh	lateral orbital sulcus (left hemisphere)
cort.destrieux_s.orbital.med.olfact.lh	medial orbital sulcus (left hemisphere)
cort.destrieux_s.orbital.h.shaped.lh	orbital sulci (left hemisphere)
cort.destrieux_s.parieto.occipital.lh	parieto-occipital sulcus (left hemisphere)
cort.destrieux_s.pericallosal.lh	s.pericallosal (left hemisphere)
cort.destrieux_s.postcentral.lh	postcentral sulcus (left hemisphere)
cort.destrieux_s.precentral.inf.part.lh	inferior part of the precentral sulcus (left hemisphere)
cort.destrieux_s.precentral.sup.part.lh	superior part of the precentral sulcus (left hemisphere)
cort.destrieux_s.suborbital.lh	suborbital sulcus (left hemisphere)
cort.destrieux_s.subparietal.lh	subparietal sulcus (left hemisphere)
cort.destrieux_s.temporal.inf.lh	inferior temporal sulcus (left hemisphere)
cort.destrieux_s.temporal.sup.lh	superior temporal sulcus (left hemisphere)
cort.destrieux_s.temporal.transverse.lh	transverse temporal sulcus (left hemisphere)
cort.destrieux_g.and.s.frontomargin.rh	fronto-marginal gyrus and sulcus (right hemisphere)
cort.destrieux_g.and.s.occipital.inf.rh	inferior occipital gyrus and sulcus (right hemisphere)
cort.destrieux_g.and.s.paracentral.rh	paracentral lobule and sulcus (right hemisphere)
cort.destrieux_g.and.s.subcentral.rh	subcentral gyrus and sulci (right hemisphere)
cort.destrieux_g.and.s.transv.frontopol.rh	transverse frontopolar gyri and sulci (right hemisphere)
cort.destrieux_g.and.s.cingul.ant.rh	anterior part of the cingulate gyrus and sulcus (right hemisphere)
cort.destrieux_g.and.s.cingul.mid.ant.rh	middle-anterior part of the cingulate gyrus and sulcus (right hemisphere)
cort.destrieux_g.and.s.cingul.mid.post.rh	middle-posterior part of the cingulate gyrus and sulcus (right hemisphere)
cort.destrieux_g.cingul.post.dorsal.rh	posterior-dorsal part of the cingulate gyrus (right hemisphere)
cort.destrieux_g.cingul.post.ventral.rh	posterior-ventral part of the cingulate gyrus (right hemisphere)
cort.destrieux_g.cuneus.rh	cuneus (right hemisphere)
cort.destrieux_g.front.inf.opercular.rh	opercular part of the inferior frontal gyrus (right hemisphere)
cort.destrieux_g.front.inf.orbital.rh	orbital part of the inferior frontal gyrus (right hemisphere)
cort.destrieux_g.front.inf.triangul.rh	triangular part of the inferior frontal gyrus (right hemisphere)
cort.destrieux_g.front.middle.rh	middle frontal gyrus (right hemisphere)
cort.destrieux_g.front.sup.rh	superior frontal gyrus (right hemisphere)
cort.destrieux_g.ins.lg.and.s.cent.ins.rh	long insular gyrus and central sulcus of the insula (right hemisphere)
cort.destrieux_g.insular.short.rh	short insular gyri (right hemisphere)
cort.destrieux_g.occipital.middle.rh	middle occipital gyrus (right hemisphere)

cort.destrieux_g.occipital.sup.rh	superior occipital gyrus (right hemisphere)
cort.destrieux_g.oc.temp.lat.fusifor.rh	lateral occipito-temporal gyrus (right hemisphere)
cort.destrieux_g.oc.temp.med.lingual.rh	lingual gyrus (right hemisphere)
cort.destrieux_g.oc.temp.med.parahip.rh	parahippocampal gyrus (right hemisphere)
cort.destrieux_g.orbital.rh	orbital gyri (right hemisphere)
cort.destrieux_g.pariet.inf.angular.rh	angular gyrus (right hemisphere)
cort.destrieux_g.pariet.inf.supramar.rh	supramarginal gyrus (right hemisphere)
cort.destrieux_g.parietal.sup.rh	superior parietal lobule (right hemisphere)
cort.destrieux_g.postcentral.rh	postcentral gyrus (right hemisphere)
cort.destrieux_g.precentral.rh	precentral gyrus (right hemisphere)
cort.destrieux_g.precuneus.rh	precuneus (right hemisphere)
cort.destrieux_g.rectus.rh	gyrus rectus (right hemisphere)
cort.destrieux_g.subcallosal.rh	subcallosal gyrus (right hemisphere)
cort.destrieux_g.temp.sup.g.t.transv.rh	anterior transverse temporal gyrus (right hemisphere)
cort.destrieux_g.temp.sup.lateral.rh	lateral aspect of the superior temporal gyrus (right hemisphere)
cort.destrieux_g.temp.sup.plan.polar.rh	planum polare of the superior temporal gyrus (right hemisphere)
cort.destrieux_g.temp.sup.plan.tempo.rh	planum temporale (right hemisphere)
cort.destrieux_g.temporal.inf.rh	inferior temporal gyrus (right hemisphere)
cort.destrieux_g.temporal.middle.rh	middle temporal gyrus (right hemisphere)
cort.destrieux_lat.fis.ant.horizont.rh	horizontal ramus of the anterior segment of the lateral sulcus (right hemisphere)
cort.destrieux_lat.fis.ant.vertical.rh	vertical ramus of the anterior segment of the lateral sulcus (right hemisphere)
cort.destrieux_lat.fis.post.rh	posterior ramus of the lateral sulcus (right hemisphere)
cort.destrieux_pole.occipital.rh	occipital pole (right hemisphere)
cort.destrieux_pole.temporal.rh	temporal pole (right hemisphere)
cort.destrieux_s.calcarine.rh	calcarine sulcus (right hemisphere)
cort.destrieux_s.central.rh	central sulcus (right hemisphere)
cort.destrieux_s.cingul.marginalis.rh	marginal branch of the cingulate sulcus (right hemisphere)
cort.destrieux_s.circular.insula.ant.rh	anterior segment of the circular sulcus of the insula (right hemisphere)
cort.destrieux_s.circular.insula.inf.rh	inferior segment of the circular sulcus of the insula (right hemisphere)
cort.destrieux_s.circular.insula.sup.rh	superior segment of the circular sulcus of the insula (right hemisphere)
cort.destrieux_s.collat.transv.ant.rh	anterior transverse collateral sulcus (right hemisphere)
cort.destrieux_s.collat.transv.post.rh	posterior transverse collateral sulcus (right hemisphere)
cort.destrieux_s.front.inf.rh	inferior frontal sulcus (right hemisphere)
cort.destrieux_s.front.middle.rh	middle frontal sulcus (right hemisphere)

cort.destrieux_s.front.sup.rh	superior frontal sulcus (right hemisphere)
cort.destrieux_s.interm.prim.jensen.rh	sulcus intermedius primus (right hemisphere)
cort.destrieux_s.intrapariet.and.p.trans.rh	intraparietal sulcus and transverse parietal sulci (right hemisphere)
cort.destrieux_s.oc.middle.and.lunatus.rh	middle occipital sulcus and lunatus sulcus (right hemisphere)
cort.destrieux_s.oc.sup.and.transversal.rh	superior occipital sulcus and transverse occipital sulcus (right hemisphere)
cort.destrieux_s.occipital.ant.rh	anterior occipital sulcus and preoccipital notch (right hemisphere)
cort.destrieux_s.oc.temp.lat.rh	lateral occipito-temporal sulcus (right hemisphere)
cort.destrieux_s.oc.temp.med.and.lingual.rh	medial occipito-temporal sulcus and lingual sulcus (right hemisphere)
cort.destrieux_s.orbital.lateral.rh	lateral orbital sulcus (right hemisphere)
cort.destrieux_s.orbital.med.olfact.rh	medial orbital sulcus (right hemisphere)
cort.destrieux_s.orbital.h.shaped.rh	orbital sulci (right hemisphere)
cort.destrieux_s.parieto.occipital.rh	parieto-occipital sulcus (right hemisphere)
cort.destrieux_s.pericallosal.rh	s.pericallosal (right hemisphere)
cort.destrieux_s.postcentral.rh	postcentral sulcus (right hemisphere)
cort.destrieux_s.precentral.inf.part.rh	inferior part of the precentral sulcus (right hemisphere)
cort.destrieux_s.precentral.sup.part.rh	superior part of the precentral sulcus (right hemisphere)
cort.destrieux_s.suborbital.rh	suborbital sulcus (right hemisphere)
cort.destrieux_s.subparietal.rh	subparietal sulcus (right hemisphere)
cort.destrieux_s.temporal.inf.rh	inferior temporal sulcus (right hemisphere)
cort.destrieux_s.temporal.sup.rh	superior temporal sulcus (right hemisphere)
cort.destrieux_s.temporal.transverse.rh	transverse temporal sulcus (right hemisphere)
cort.destrieux_mean.lh	mean (left hemisphere)
cort.destrieux_mean.rh	mean (right hemisphere)
cort.destrieux_mean	mean (bilateral)
cort.destrieux_total.lh	total (left hemisphere - area and volume)
cort.destrieux_total.rh	total (right hemisphere - area and volume)
cort.destrieux_total	total (bilateral - area and volume)

Table 3. Subcortical regions labeled by automated segmentation (aseg) included in sMRI, dMRI, and fMRI analyses

Fischl, B., Salat, D.H., Busa, E., Albert, M., Dieterich, M., Haselgrove, C., van der Kouwe, A., Killiany, R., Kennedy, D., Klaveness, S., Montillo, A., Makris, N., Rosen, B., Dale, A.M. (2002) Whole brain segmentation: automated labeling of neuroanatomical structures in the human brain. Neuron, 33:341-55.

ROI name	Description
subcortaseg_cerebralwhitematterlh	cerebral white matter (left hemisphere)
subcortaseg_cerebralcortexlh	cerebral cortex (left hemisphere)
subcortaseg_lateralventriclelh	lateral ventricle (left hemisphere)
subcortaseg_inflatventlh	inferior lateral ventricle (left hemisphere)
subcortaseg_cerebellumwhitematterlh	cerebellum white matter (left hemisphere)
subcortaseg_cerebellumcortexlh	cerebellum cortex (left hemisphere)
subcortaseg_thalamusproperlh	thalamus proper (left hemisphere)
subcortaseg_caudatelh	caudate (left hemisphere)
subcortaseg_putamenlh	putamen (left hemisphere)
subcortaseg_pallidumlh	pallidum (left hemisphere)
subcortaseg_hippocampuslh	hippocampus (left hemisphere)
subcortaseg_amygdalalh	amygdala (left hemisphere)
subcortaseg_lesionlh	lesions (left hemisphere)
subcortaseg_accumbensarealh	accumbens area (left hemisphere)
subcortaseg_ventraldclh	ventral DC (left hemisphere)
subcortaseg_cerebralwhitematterrh	cerebral white matter (right hemisphere)
subcortaseg_cerebralcortexrh	cerebral cortex (right hemisphere)
subcortaseg_lateralventriclerh	lateral ventricle (right hemisphere)
subcortaseg_inflatventrh	inferior lateral ventricle (right hemisphere)
subcortaseg_cerebellumwhitematterrh	cerebellum white matter (right hemisphere)
subcortaseg_cerebellumcortexrh	cerebellum cortex (right hemisphere)
subcortaseg_thalamusproperrh	thalamus proper (right hemisphere)
subcortaseg_caudaterh	caudate (right hemisphere)
subcortaseg_putamenrh	putamen (right hemisphere)
subcortaseg_pallidumrh	pallidum (right hemisphere)
subcortaseg_hippocampusrh	hippocampus (right hemisphere)
subcortaseg_amygdalarh	amygdala (right hemisphere)
subcortaseg_lesionrh	lesions (right hemisphere)
subcortaseg_accumbensarearh	accumbens area (right hemisphere)

subcortaseg_ventraldcrh	ventral DC (right hemisphere)
subcortaseg_wmhypointensities	wm hypointensities
subcortaseg_wmhypointensieslh	wm hypointensities (right hemisphere)
subcortaseg_wmhypointensiesrh	wm hypointensities (right hemisphere)
subcortaseg_ccposterior	CC Posterior
subcortaseg_ccmidposterior	CC Mid_Posterior
subcortaseg_cccentral	CC Central
subcortaseg_ccmidanterior	CC Mid_Anterior
subcortaseg_ccanterior	CC Anterior
subcortaseg_latventricles	lateral ventricles
subcortaseg_3rdventricle	3rd ventricle
subcortaseg_4thventricle	4th ventricle
subcortaseg_allventricles	all ventricles
subcortaseg_csf	csf
subcortaseg_brainstem	brain stem
subcortaseg_wholebrain	whole brain
subcortaseg_brainmaskvolume	brain mask volume
subcortaseg_brainsegmentationvolume	brain segmentation volume *
subcortaseg_intracranialvolume	intracranial volume (i.e. estimated total intracranial volume) *
subcortaseg_supratentorialvolume	supratentorial volume *
subcortaseg_subcorticalgrayvolume	subcortical gray volume *

* Details on how these ROIs are calculated are listed at
https://surfer.nmr.mgh.harvard.edu/fswiki/MorphometryStats. Whole brain is the total of cortical and subcortical structure (bilateral Cerebral White Matter, Cerebral Cortex, Cerebellum White Matter, Cerebellum Cortex, Thalamus Proper, Caudate, Putamen, Pallidum, Hippocampus, Amygdala, Accumbens area and VentralDC)

Table 4. Cortical regions defined by genetically derived parcellation (fuzzy) in sMRI, dMRI, and fMRI analyses

Chen CH, Gutierrez ED, Thompson W, Panizzon MS, Jernigan TL, Eyler LT, Fennema-Notestine C, Jak AJ, Neale MC, Franz CE, Lyons MJ, Grant MD, Fischl B, Seidman LJ, Tsuang MT, Kremen WS, Dale AM. (2012) Hierarchical genetic organization of human cortical surface area. Science. 2012 Mar 30;335(6076):1634-6.

ROI name	Description
cortfuzzy2_frontallh	Weighted average for genetically derived parcellation with 2 clusters - frontal cortex (left hemisphere)
cortfuzzy2_posteriorlh	Weighted average for genetically derived parcellation with 2 clusters - posterior cortex (left hemisphere)
cortfuzzy4_frontallh	Weighted average for genetically derived parcellation with 4 clusters - frontal cortex (left hemisphere)
cortfuzzy4_occipitallh	Weighted average for genetically derived parcellation with 4 clusters - occipital cortex (left hemisphere)
cortfuzzy4_temporallh	Weighted average for genetically derived parcellation with 4 clusters - temporal cortex (left hemisphere)
cortfuzzy4_parietallh	Weighted average for genetically derived parcellation with 4 clusters - parietal cortex (left hemisphere)
cortfuzzy12_centrallh	Weighted average for genetically derived parcellation with 12 clusters - central cortex (left hemisphere)
cortfuzzy12_occipitallh	Weighted average for genetically derived parcellation with 12 clusters - occipital cortex (left hemisphere)
cortfuzzy12_posterolateraltemporallh	Weighted average for genetically derived parcellation with 12 clusters - posterolateraltemporal cortex (left hemisphere)
cortfuzzy12_superiorparietallh	Weighted average for genetically derived parcellation with 12 clusters - superiorparietal cortex (left hemisphere)
cortfuzzy12_orbitofrontallh	Weighted average for genetically derived parcellation with 12 clusters - orbitofrontal cortex (left hemisphere)
cortfuzzy12_superiortemporallh	Weighted average for genetically derived parcellation with 12 clusters - superiortemporal cortex (left hemisphere)
cortfuzzy12_inferiorparietallh	Weighted average for genetically derived parcellation with 12 clusters - inferiorparietal cortex (left hemisphere)
cortfuzzy12_dorsomedialfrontallh	Weighted average for genetically derived parcellation with 12 clusters - dorsomedialfrontal cortex (left hemisphere)
cortfuzzy12_anteromedialtemporallh	Weighted average for genetically derived parcellation with 12 clusters - anteromedialtemporal cortex (left hemisphere)
cortfuzzy12_precuneuslh	Weighted average for genetically derived parcellation with 12 clusters - precuneus cortex (left hemisphere)
cortfuzzy12_dorsolateralprefrontallh	Weighted average for genetically derived parcellation with 12 clusters - dorsolateralprefrontal cortex (left hemisphere)
cortfuzzy12_parsopercularislh	Weighted average for genetically derived parcellation with 12 clusters - parsopercularis cortex (left hemisphere)
cortfuzzy2_frontalrh	Weighted average for genetically derived parcellation with 2 clusters - frontal cortex (right hemisphere)

cortfuzzy2_posteriorrh	Weighted average for genetically derived parcellation with 2 clusters - posterior cortex (right hemisphere)
cortfuzzy4_frontalrh	Weighted average for genetically derived parcellation with 4 clusters - frontal cortex (right hemisphere)
cortfuzzy4_occipitalrh	Weighted average for genetically derived parcellation with 4 clusters - occipital cortex (right hemisphere)
cortfuzzy4_temporalrh	Weighted average for genetically derived parcellation with 4 clusters - temporal cortex (right hemisphere)
cortfuzzy4_parietalrh	Weighted average for genetically derived parcellation with 4 clusters - parietal cortex (right hemisphere)
cortfuzzy12_centralrh	Weighted average for genetically derived parcellation with 12 clusters - central cortex (right hemisphere)
cortfuzzy12_occipitalrh	Weighted average for genetically derived parcellation with 12 clusters - occipital cortex (right hemisphere)
cortfuzzy12_posterolateraltemporalrh	Weighted average for genetically derived parcellation with 12 clusters - posterolateraltemporal cortex (right hemisphere)
cortfuzzy12_superiorparietalrh	Weighted average for genetically derived parcellation with 12 clusters - superiorparietal cortex (right hemisphere)
cortfuzzy12_orbitofrontalrh	Weighted average for genetically derived parcellation with 12 clusters - orbitofrontal cortex (right hemisphere)
cortfuzzy12_superiortemporalrh	Weighted average for genetically derived parcellation with 12 clusters - superiortemporal cortex (right hemisphere)
cortfuzzy12_inferiorparietalrh	Weighted average for genetically derived parcellation with 12 clusters - inferiorparietal cortex (right hemisphere)
cortfuzzy12_dorsomedialfrontalrh	Weighted average for genetically derived parcellation with 12 clusters - dorsomedialfrontal cortex (right hemisphere)
cortfuzzy12_anteromedialtemporalrh	Weighted average for genetically derived parcellation with 12 clusters - anteromedialtemporal cortex (right hemisphere)
cortfuzzy12_precuneusrh	Weighted average for genetically derived parcellation with 12 clusters - precuneus cortex (right hemisphere)
cortfuzzy12_dorsolateralprefrontalrh	Weighted average for genetically derived parcellation with 12 clusters - dorsolateralprefrontal cortex (right hemisphere)
cortfuzzy12_parsopercularisrh	Weighted average for genetically derived parcellation with 12 clusters - parsopercularis cortex (right hemisphere)

Table 5. Fiber tracts automatically labeled by AtlasTrack

Except for Fmaj, Fmin, and CC, all tracts are separately labeled for left and right hemispheres.

Hagler, D.J., Jr., Ahmadi, M.E., Kuperman, J., Holland, D., McDonald, C.R., Halgren, E., Dale, A.M. (2009) Automated white-matter tractography using a probabilistic diffusion tensor atlas: Application to temporal lobe epilepsy. Hum Brain Mapp, 30:1535-47.

Abbrev	Fiber Name	Connected Brain Regions
Fx	fornix	hippocampus & mammillary nuclei of hypothalamus
CgC	cingulate cingulum	cingulate gyrus & entorhinal cortex (cingulate portion)
CgH	parahippocampal cingulum	cingulate gyrus & entorhinal cortex (parahippocampal portion)
CST	corticospinal tract (pyramidal tract)	motor cortex & spinal cord
ATR	anterior thalamic radiations	thalamus & frontal lobe
UNC	uncinate	inferior frontal lobe & anterior temporal lobe
ILF	inferior longitudinal fasciculus	occipital lobe & temporal lobe
IFO	inferior frontal occipital fasciculus	occipital lobe & frontal lobe
Fmaj	forceps major	left occipital cortex & right occipital cortex
Fmin	forceps minor	left prefrontal cortex & right prefrontal cortex
CC	corpus callosum	left cortex & right cortex
SLF	superior longitudinal fasciculus	temporal and parietal lobes & frontal lobe
tSLF	temporal superior longitudinal fasciculus (arcuate fasciculus)	temporal lobe & frontal lobe
pSLF	parietal superior longitudinal fasciculus	parietal lobe & frontal lobe
SCS	superior corticostriate	superior cortex & striatum
fSCS	frontal superior corticostriate	superior frontal cortex & striatum
pSCS	parietal superior corticostriate	superior parietal cortex & striatum
SIFC	striatal inferior frontal cortex tract	inferior frontal cortex & striatum
IFSFC	inferior frontal to superior frontal cortical tract	inferior frontal cortex & superior frontal cortex

Table 6. ROI labels and network membership of cortical parcels defined based on resting-state functional connectivity

Gordon, E.M., Laumann, T.O., Adeyemo, B., Huckins, J.F., Kelley, W.M., Petersen, S.E. (2016) Generation and Evaluation of a Cortical Area Parcellation from Resting-State Correlations. Cereb Cortex. 2016 Jan;26(1):288-303. Epub 2014 Oct 14.

ROI label	Community	Surface area (mm^2)	Centroid (MNI)	Nearest Destrieux Parcel
ctx-lh-gp1	Default	1412	-11.2 -52.4 36.5	S_subparietal
ctx-lh-gp2	SMhand	377	-18.8 -48.7 65	G_parietal_sup
ctx-lh-gp3	SMmouth	437	-51.8 -7.8 38.5	G_precentral
ctx-lh-gp4	Default	369	-11.7 26.7 57	G_front_sup
ctx-lh-gp5	Visual	871	-18.4 -85.5 21.6	S_oc_sup_and_transversal
ctx-lh-gp6	Default	1084	-47.2 -58 30.8	S_temporal_sup
ctx-lh-gp7	FrontoParietal	91	-38.1 48.8 10.5	G_front_middle
ctx-lh-gp8	Visual	487	-16.8 -60.1 -5.4	G_oc-temp_med-Lingual
ctx-lh-gp9	FrontoParietal	95	-55.9 -47.7 -9.3	S_temporal_inf
ctx-lh-gp10	Auditory	180	-32 -29.3 15.6	Lat_Fis-post
ctx-lh-gp11	None	125	-29.3 5.3 -27.4	G_temp_sup-Plan_polar
ctx-lh-gp12	CinguloParietal	134	-6.1 -26 28.5	S_pericallosal
ctx-lh-gp13	RetrosplenialTemporal	267	-14.4 -57.8 18.4	S_parieto_occipital
ctx-lh-gp14	RetrosplenialTemporal	247	-8.8 -49.8 4.2	S_calcarine
ctx-lh-gp15	Visual	1660	-11.3 -83.2 3.9	S_calcarine
ctx-lh-gp16	Visual	89	-22 -58.1 1.5	S_calcarine
ctx-lh-gp17	Visual	44	-9.6 -58 3	G_oc-temp_med-Lingual
ctx-lh-gp18	None	128	-29 -35.9 -8.3	Unknown
ctx-lh-gp19	None	60	-18.5 -39.2 -1.1	Unknown
ctx-lh-gp20	Visual	142	-16.7 -46 -3.7	S_calcarine
ctx-lh-gp21	CinguloOperc	551	-16.6 -36.1 42.7	S_cingul-Marginalis
ctx-lh-gp22	CinguloOperc	508	-9.4 -0.1 42.9	G_and_S_cingul-Mid-Post
ctx-lh-gp23	VentralAttn	272	-3.8 12.1 64.6	G_front_sup
ctx-lh-gp24	FrontoParietal	282	-5.5 29.3 44	G_front_sup
ctx-lh-gp25	Default	201	-5.6 42.2 35.1	G_front_sup
ctx-lh-gp26	Default	121	-1.7 -17.7 39.1	G_and_S_cingul-Mid-Post

ctx-lh-gp27	CinguloOperc	293	-8.4 14.6 33.8	G_and_S_cingul-Mid-Ant
ctx-lh-gp28	CinguloOperc	68	-9 25.3 27.7	G_and_S_cingul-Mid-Ant
ctx-lh-gp29	Salience	105	-10 33.9 21.5	G_and_S_cingul-Ant
ctx-lh-gp30	SMhand	49	-10.7 -47.5 60.3	G_precuneus
ctx-lh-gp31	SMhand	344	-15.6 -33.1 66.1	S_central
ctx-lh-gp32	SMhand	116	-10.9 -29.3 69.5	S_central
ctx-lh-gp33	SMhand	60	-6.6 -20.4 74.2	G_and_S_paracentral
ctx-lh-gp34	CinguloOperc	268	-8 -8.7 62.9	G_front_sup
ctx-lh-gp35	SMhand	241	-10.8 -41.1 64.9	G_and_S_paracentral
ctx-lh-gp36	SMhand	349	-5 -28.2 60.4	G_and_S_paracentral
ctx-lh-gp37	SMhand	150	-5.4 -15.9 48.8	G_front_sup
ctx-lh-gp38	SMhand	517	-35.8 -29.7 54.5	S_central
ctx-lh-gp39	SMmouth	142	-41.5 -12.5 50.4	S_central
ctx-lh-gp40	CinguloOperc	98	-42.1 -4.5 47.3	S_precentral-sup-part
ctx-lh-gp41	DorsalAttn	346	-27.3 -6.8 46.3	S_precentral-sup-part
ctx-lh-gp42	DorsalAttn	95	-27.3 1.9 52.9	S_front_sup
ctx-lh-gp43	DorsalAttn	114	-19.8 6.4 55.7	S_front_sup
ctx-lh-gp44	Default	519	-19.5 30.1 45.5	S_front_sup
ctx-lh-gp45	SMhand	388	-36.8 -22.8 61.9	G_precentral
ctx-lh-gp46	SMhand	111	-20.5 -24.9 64.5	S_central
ctx-lh-gp47	SMhand	320	-23.4 -13.8 64.2	S_precentral-sup-part
ctx-lh-gp48	SMhand	125	-17.2 -8.6 67.9	G_front_sup
ctx-lh-gp49	DorsalAttn	137	-21.3 -0.2 62.7	S_front_sup
ctx-lh-gp50	SMhand	177	-28.6 -44.7 61.7	S_postcentral
ctx-lh-gp51	DorsalAttn	317	-31.1 -48.9 47.1	S_intrapariet_and_P_trans
ctx-lh-gp52	DorsalAttn	181	-42.9 -45 43	S_intrapariet_and_P_trans
ctx-lh-gp53	SMmouth	855	-51.5 -11.9 29.7	S_central
ctx-lh-gp54	SMhand	94	-54.1 -21.3 40.8	S_postcentral
ctx-lh-gp55	DorsalAttn	189	-51.7 -30.9 39.9	S_postcentral
ctx-lh-gp56	SMhand	319	-35.2 -35.3 42	S_postcentral
ctx-lh-gp57	SMhand	206	-27.5 -37.2 61.4	S_postcentral
ctx-lh-gp58	SMhand	228	-47.2 -31.4 54.8	G_postcentral
ctx-lh-gp59	SMmouth	108	-46.1 -17.8 52.7	G_postcentral
ctx-lh-gp60	VentralAttn	51	-44.8 -54 14.6	S_temporal_sup
ctx-lh-gp61	VentralAttn	72	-51.6 -55.9 11.4	S_temporal_sup

ctx-lh-gp62	VentralAttn	1211	-48.1 -40 2.4	S_temporal_sup
ctx-lh-gp63	CinguloOperc	401	-57.7 -40.6 35.8	G_pariet_inf-Supramar
ctx-lh-gp64	Auditory	70	-46.3 -41.4 25.9	Lat_Fis-post
ctx-lh-gp65	Auditory	58	-35.8 -33.5 19.9	Lat_Fis-post
ctx-lh-gp66	Auditory	318	-52.7 -20.6 5.4	S_temporal_transverse
ctx-lh-gp67	Auditory	134	-59.6 -38.5 16.5	G_temp_sup-Plan_tempo
ctx-lh-gp68	Auditory	185	-58.7 -29.9 11.1	G_temp_sup-Plan_tempo
ctx-lh-gp69	Auditory	88	-40.6 -38.3 14.5	Lat_Fis-post
ctx-lh-gp70	Auditory	78	-33.7 -21.8 9.9	S_circular_insula_inf
ctx-lh-gp71	CinguloOperc	258	-38.7 -16 -5.3	S_circular_insula_inf
ctx-lh-gp72	CinguloOperc	314	-39.1 -1.6 -12.2	S_circular_insula_inf
ctx-lh-gp73	None	435	-33.6 17.2 -31.5	Pole_temporal
ctx-lh-gp74	DorsalAttn	213	-43.6 36.3 8.5	S_front_inf
ctx-lh-gp75	VentralAttn	231	-50 20.8 10.6	Lat_Fis-ant-Vertical
ctx-lh-gp76	CinguloOperc	406	-37.7 2.9 11.7	S_circular_insula_sup
ctx-lh-gp77	Auditory	178	-37.2 -14 19.4	S_circular_insula_sup
ctx-lh-gp78	FrontoParietal	388	-40.3 50.4 -4.8	G_orbital
ctx-lh-gp79	VentralAttn	139	-47.2 39 -9.1	G_front_inf-Triangul
ctx-lh-gp80	VentralAttn	558	-29.1 20.5 -14	G_orbital
ctx-lh-gp81	CinguloOperc	114	-36.6 1.4 6.4	S_circular_insula_sup
ctx-lh-gp82	CinguloOperc	97	-37.3 8.9 -0.9	G_insular_short
ctx-lh-gp83	Salience	78	-32.5 17.2 -7.8	S_circular_insula_ant
ctx-lh-gp84	CinguloOperc	421	-28.8 23.7 8.4	S_circular_insula_sup
ctx-lh-gp85	VentralAttn	119	-44.3 33.2 -7.2	Lat_Fis-ant-Horizont
ctx-lh-gp86	VentralAttn	111	-45.4 28.8 0.8	G_front_inf-Triangul
ctx-lh-gp87	DorsalAttn	429	-20.4 -64.6 51.4	G_parietal_sup
ctx-lh-gp88	DorsalAttn	260	-25.8 -65 32.2	S_intrapariet_and_P_trans
ctx-lh-gp89	CinguloParietal	118	-12.7 -64.9 31.8	S_parieto_occipital
ctx-lh-gp90	Visual	187	-13.7 -77.4 26.6	S_parieto_occipital
ctx-lh-gp91	DorsalAttn	259	-9.9 -56.9 59.8	G_precuneus
ctx-lh-gp92	DorsalAttn	81	-7.1 -63.7 54.9	G_precuneus
ctx-lh-gp93	CinguloParietal	215	-10.9 -73.4 42.9	G_parietal_sup
ctx-lh-gp94	Default	486	-39.3 -73.9 38.3	G_pariet_inf-Angular
ctx-lh-gp95	DorsalAttn	112	-30 -74.1 36.1	G_pariet_inf-Angular
ctx-lh-gp96	FrontoParietal	195	-34.1 -61 42.4	S_intrapariet_and_P_trans

ctx-lh-gp97	Visual	619	-31.3 -84.2 9	S_oc_middle_and_Lunatus
ctx-lh-gp98	Visual	200	-34.2 -86.6 -0.5	G_occipital_middle
ctx-lh-gp99	Visual	344	-43.4 -67.6 9.7	S_occipital_ant
ctx-lh-gp100	DorsalAttn	1019	-46.2 -57.7 -7.9	G_temporal_inf
ctx-lh-gp101	CinguloOperc	130	-59.8 -4.1 8.8	G_and_S_subcentral
ctx-lh-gp102	Auditory	84	-52.2 -14.1 15.2	G_and_S_subcentral
ctx-lh-gp103	CinguloOperc	219	-55.1 -32.3 23	G_pariet_inf-Supramar
ctx-lh-gp104	Auditory	235	-50.6 -22.4 19.2	G_and_S_subcentral
ctx-lh-gp105	CinguloOperc	317	-58.8 -23.9 31	G_pariet_inf-Supramar
ctx-lh-gp106	DorsalAttn	494	-45.2 2.7 32.4	S_precentral-inf-part
ctx-lh-gp107	DorsalAttn	76	-34.7 5.6 34	S_precentral-inf-part
ctx-lh-gp108	FrontoParietal	87	-43 19.4 33.5	G_front_middle
ctx-lh-gp109	FrontoParietal	275	-40.2 23.6 23.3	S_front_inf
ctx-lh-gp110	DorsalAttn	179	-37.6 38.4 17.2	S_front_inf
ctx-lh-gp111	CinguloOperc	190	-51.8 -0.6 5	G_front_inf-Opercular
ctx-lh-gp112	CinguloOperc	375	-48.6 7.5 11.1	S_precentral-inf-part
ctx-lh-gp113	DorsalAttn	80	-41.6 8.7 22.2	S_precentral-inf-part
ctx-lh-gp114	Default	86	-27.5 53.6 0	G_and_S_frontomargin
ctx-lh-gp115	None	110	-23.4 61 -6.8	G_and_S_frontomargin
ctx-lh-gp116	Default	539	-5.9 54.8 -11.3	G_rectus
ctx-lh-gp117	Default	308	-6.8 38.2 -9.4	G_and_S_cingul-Ant
ctx-lh-gp118	None	45	-31.8 2.6 -16.8	G_insular_short
ctx-lh-gp119	None	111	-34.7 35.6 -9.6	S_orbital-H_Shaped
ctx-lh-gp120	None	348	-22.5 32.1 -13.6	S_orbital-H_Shaped
ctx-lh-gp121	None	122	-23.8 52.2 -12.8	S_orbital-H_Shaped
ctx-lh-gp122	None	236	-17.3 46.6 -17.9	G_orbital
ctx-lh-gp123	None	212	-13.3 24 -16.4	S_orbital_med-olfact
ctx-lh-gp124	None	111	-8.9 45.5 -20.8	S_orbital_med-olfact
ctx-lh-gp125	None	87	-2.5 33.8 -26.2	G_rectus
ctx-lh-gp126	Default	142	-63.2 -28.7 -7.2	G_temporal_middle
ctx-lh-gp127	Default	776	-53.1 -11.4 -16	S_temporal_sup
ctx-lh-gp128	None	500	-53.2 -13 -29.2	G_temporal_inf
ctx-lh-gp129	None	538	-44.6 9 -37	Pole_temporal
ctx-lh-gp130	RetrosplenialTemporal	376	-33.8 -33.2 -15.4	S_oc-temp_med_and_Lingual

ctx-lh-gp131	Visual	297	-28.8 -58.8 -9.1	S_oc-temp_med_and_Lingual
ctx-lh-gp132	Visual	201	-34.4 -63.9 -15.7	G_oc-temp_lat-fusifor
ctx-lh-gp133	None	155	-55.1 -39.6 -16.2	G_temporal_inf
ctx-lh-gp134	None	142	-32 -3.9 -45.2	Pole_temporal
ctx-lh-gp135	None	176	-38.6 -13 -26.9	S_collat_transv_ant
ctx-lh-gp136	Visual	314	-34.3 -43.8 -21.6	G_oc-temp_lat-fusifor
ctx-lh-gp137	Visual	483	-5.4 -88 18.6	G_cuneus
ctx-lh-gp138	Visual	142	-8.6 -77.5 -3.5	G_oc-temp_med-Lingual
ctx-lh-gp139	Visual	230	-41.2 -72.1 -5.9	G_and_S_occipital_inf
ctx-lh-gp140	Visual	353	-25.2 -97.2 -7.9	Pole_occipital
ctx-lh-gp141	Visual	541	-22.6 -81.7 -11.7	G_and_S_occipital_inf
ctx-lh-gp142	None	221	-20.5 -12.6 -23.7	Unknown
ctx-lh-gp143	RetrosplenialTemporal	156	-22.5 -37.1 -15	G_oc-temp_med-Parahip
ctx-lh-gp144	None	205	-22 -21.9 -17.4	Unknown
ctx-lh-gp145	Default	178	-15.9 48.6 37.2	G_front_sup
ctx-lh-gp146	Default	273	-19.5 56.3 27.5	G_front_middle
ctx-lh-gp147	CinguloOperc	55	-26.6 46.8 20.9	S_front_middle
ctx-lh-gp148	FrontoParietal	194	-21.3 63.1 1.9	G_and_S_transv_frontopol
ctx-lh-gp149	FrontoParietal	106	-28.6 50.9 10.1	S_front_middle
ctx-lh-gp150	Default	685	-6.5 54.7 18.1	G_front_sup
ctx-lh-gp151	Default	151	-15.7 64.7 13.7	G_front_sup
ctx-lh-gp152	Default	177	-6 44.9 6.3	G_and_S_cingul-Ant
ctx-lh-gp153	CinguloOperc	162	-28.8 38.3 28.2	S_front_middle
ctx-lh-gp154	Default	105	-26.2 26.6 38.8	S_front_sup
ctx-lh-gp155	DorsalAttn	151	-35.7 33.1 32	G_front_middle
ctx-lh-gp156	Default	139	-29.3 16.8 50.7	G_front_middle
ctx-lh-gp157	Default	352	-41.7 16.1 47.5	G_front_middle
ctx-lh-gp158	VentralAttn	113	-38.7 4.8 48.4	S_precentral-inf-part
ctx-lh-gp159	None	242	-50.8 6.9 -20.1	G_temp_sup-Lateral
ctx-lh-gp160	Auditory	388	-54.4 -1.4 -0.7	G_temp_sup-Lateral

ctx-lh-gp161	VentralAttn	95	-59 -18 -3	S_temporal_sup
ctx-rh-gp162	Default	1286	12.3 -51.6 34.5	S_subparietal
ctx-rh-gp163	SMhand	422	20.8 -48.2 66.1	G_parietal_sup
ctx-rh-gp164	SMmouth	303	49.6 -7.4 36.1	S_central
ctx-rh-gp165	Default	445	11.9 21.9 59.9	G_front_sup
ctx-rh-gp166	Visual	594	22 -84.6 23.7	S_oc_sup_and_transversal
ctx-rh-gp167	FrontoParietal	154	47.9 -42.5 41.5	G_pariet_inf-Supramar
ctx-rh-gp168	FrontoParietal	157	38.1 45.9 7.7	S_front_inf
ctx-rh-gp169	Visual	102	22.3 -46.5 -9.9	S_oc-temp_med_and_Lingual
ctx-rh-gp170	FrontoParietal	259	59.7 -41 -10.9	S_temporal_inf
ctx-rh-gp171	Auditory	169	33.6 -22.3 13	Lat_Fis-post
ctx-rh-gp172	None	253	32.5 13.6 -30.5	G_temp_sup-Plan_polar
ctx-rh-gp173	CinguloParietal	138	7.6 -27 28.4	S_pericallosal
ctx-rh-gp174	RetrosplenialTemporal	514	13.8 -54.1 10.9	S_parieto_occipital
ctx-rh-gp175	Visual	1935	15.5 -74.1 9.4	S_calcarine
ctx-rh-gp176	Visual	272	19.6 -45.3 -4.4	S_calcarine
ctx-rh-gp177	Visual	249	15.6 -59.6 -5	G_oc-temp_med-Lingual
ctx-rh-gp178	None	95	24.9 -35.9 -4.8	Unknown
ctx-rh-gp179	None	93	19.4 -29.9 -9.7	Unknown
ctx-rh-gp180	CinguloOperc	698	16.2 -33.1 43.2	S_cingul-Marginalis
ctx-rh-gp181	CinguloOperc	87	6.7 5 55.9	G_front_sup
ctx-rh-gp182	FrontoParietal	260	7 25.7 47.3	G_front_sup
ctx-rh-gp183	Salience	104	8.4 34.7 22.6	G_and_S_cingul-Ant
ctx-rh-gp184	Default	375	7.7 44.1 5.5	G_and_S_cingul-Ant
ctx-rh-gp185	CinguloOperc	495	8.6 4.2 40.1	G_and_S_cingul-Mid-Ant
ctx-rh-gp186	Default	86	3 -19.6 37.9	G_and_S_cingul-Mid-Post
ctx-rh-gp187	CinguloOperc	81	8.8 10.8 45.9	G_and_S_cingul-Mid-Ant
ctx-rh-gp188	CinguloOperc	176	6 21.8 32.4	G_and_S_cingul-Mid-Ant
ctx-rh-gp189	DorsalAttn	381	10.3 -57.3 58.3	G_precuneus
ctx-rh-gp190	SMhand	373	16.5 -32.8 67.7	S_central
ctx-rh-gp191	SMhand	479	4.8 -27.1 64.8	G_and_S_paracentral
ctx-rh-gp192	CinguloOperc	118	16.2 0.8 67.5	G_front_sup
ctx-rh-gp193	SMhand	183	11.9 -40.7 67	G_and_S_paracentral
ctx-rh-gp194	SMhand	64	5.1 -17.1 51.6	G_front_sup

ctx-rh-gp195	SMhand	124	6.8 -8.1 50.9	G_and_S_cingul-Mid-Post
ctx-rh-gp196	CinguloOperc	213	8 -6.2 63.7	G_front_sup
ctx-rh-gp197	SMmouth	225	42.3 -11 47.3	S_central
ctx-rh-gp198	CinguloOperc	154	42.5 -2.3 47.2	S_precentral-sup-part
ctx-rh-gp199	DorsalAttn	125	29.2 1.9 52.4	S_front_sup
ctx-rh-gp200	Default	368	21.9 21 46.2	S_front_sup
ctx-rh-gp201	SMhand	359	38.1 -22.4 60.3	G_precentral
ctx-rh-gp202	SMhand	141	19.7 -25 65.2	S_central
ctx-rh-gp203	DorsalAttn	252	29.9 -7.8 47.4	S_precentral-sup-part
ctx-rh-gp204	SMhand	70	12.4 -28.3 69.6	G_precentral
ctx-rh-gp205	SMhand	193	29.2 -13.5 64.2	S_precentral-sup-part
ctx-rh-gp206	SMhand	82	17 -16.9 70.9	G_precentral
ctx-rh-gp207	SMhand	144	20.9 -6.4 65	G_front_sup
ctx-rh-gp208	DorsalAttn	162	22.6 5.6 57.6	S_front_sup
ctx-rh-gp209	SMhand	118	29.5 -42.5 60.4	G_parietal_sup
ctx-rh-gp210	SMhand	43	34.2 -40.6 51.6	S_intrapariet_and_P_trans
ctx-rh-gp211	DorsalAttn	140	38.8 -42.6 40.4	S_intrapariet_and_P_trans
ctx-rh-gp212	SMmouth	814	53.9 -8.3 26.1	S_central
ctx-rh-gp213	SMhand	326	39.6 -31.5 39.7	S_postcentral
ctx-rh-gp214	SMhand	222	28 -34.8 63.1	S_postcentral
ctx-rh-gp215	SMhand	95	39.2 -34.6 57.5	G_postcentral
ctx-rh-gp216	SMhand	550	37.3 -25.9 50.9	S_central
ctx-rh-gp217	SMhand	209	48.7 -26.1 52.2	G_postcentral
ctx-rh-gp218	SMmouth	134	47.8 -15.1 49.3	G_postcentral
ctx-rh-gp219	CinguloOperc	301	57.5 -40.3 34.7	G_pariet_inf-Supramar
ctx-rh-gp220	Default	659	48.9 -53 28.6	S_temporal_sup
ctx-rh-gp221	VentralAttn	127	57.5 -45.3 9	S_temporal_sup
ctx-rh-gp222	VentralAttn	147	60.9 -38.7 1.7	G_temporal_middle
ctx-rh-gp223	CinguloOperc	1237	54.9 -27 29.6	G_pariet_inf-Supramar
ctx-rh-gp224	Auditory	179	36.4 -30.7 19.4	Lat_Fis-post
ctx-rh-gp225	Default	259	62.5 -25.6 -5.5	G_temporal_middle
ctx-rh-gp226	VentralAttn	135	57.1 -17 -2.6	S_temporal_sup
ctx-rh-gp227	Auditory	350	53.8 -15.8 5.2	S_temporal_transverse
ctx-rh-gp228	VentralAttn	83	47.4 -39.6 13.2	S_temporal_sup
ctx-rh-gp229	VentralAttn	171	45.5 -37.3 3.4	S_temporal_sup

ctx-rh-gp230	Auditory	117	59.2 -38.6 14.6	S_temporal_sup
ctx-rh-gp231	VentralAttn	187	48.5 -26.5 -0.1	S_temporal_sup
ctx-rh-gp232	Auditory	98	61.7 -24 1.3	G_temp_sup-Lateral
ctx-rh-gp233	Auditory	238	60 -25.2 10.2	G_temp_sup-Plan_tempo
ctx-rh-gp234	CinguloOperc	297	38.8 -14.4 -5	S_circular_insula_inf
ctx-rh-gp235	CinguloOperc	277	39.7 1.2 -13.1	S_circular_insula_inf
ctx-rh-gp236	DorsalAttn	243	36.8 37.8 13.1	S_front_inf
ctx-rh-gp237	VentralAttn	121	52.5 23.7 10.3	G_front_inf-Triangul
ctx-rh-gp238	CinguloOperc	206	36.7 5.2 12.7	S_circular_insula_sup
ctx-rh-gp239	Auditory	113	38.4 -12.2 20	Lat_Fis-post
ctx-rh-gp240	FrontoParietal	307	42.8 48.3 -5.1	G_orbital
ctx-rh-gp241	VentralAttn	93	48.1 38.3 -9.2	G_orbital
ctx-rh-gp242	VentralAttn	269	45.2 30.7 -5.6	G_orbital
ctx-rh-gp243	VentralAttn	272	27.4 19.7 -14.9	S_circular_insula_ant
ctx-rh-gp244	Auditory	61	36.6 -10 12.4	S_circular_insula_sup
ctx-rh-gp245	CinguloOperc	160	39.6 10.4 -1.6	G_insular_short
ctx-rh-gp246	CinguloOperc	134	36.5 5.7 6	S_circular_insula_sup
ctx-rh-gp247	Salience	109	30.6 22.8 -4.7	S_circular_insula_ant
ctx-rh-gp248	CinguloOperc	88	33.7 22.6 3.7	G_insular_short
ctx-rh-gp249	CinguloOperc	317	34 24.4 10	S_circular_insula_sup
ctx-rh-gp250	DorsalAttn	94	48.1 38.4 2.4	G_front_inf-Triangul
ctx-rh-gp251	Visual	225	26.8 -55 54.2	S_intrapariet_and_P_trans
ctx-rh-gp252	DorsalAttn	362	23 -66.4 51.8	G_parietal_sup
ctx-rh-gp253	DorsalAttn	266	32.3 -63.6 33.8	S_intrapariet_and_P_trans
ctx-rh-gp254	CinguloParietal	288	15.6 -69.5 39.6	S_parieto_occipital
ctx-rh-gp255	Visual	161	17.6 -78.3 34	S_parieto_occipital
ctx-rh-gp256	Visual	100	7.7 -85.6 31.6	G_cuneus
ctx-rh-gp257	Default	53	7.4 -69.3 49.9	G_precuneus
ctx-rh-gp258	Visual	197	35.4 -77.1 21.1	S_oc_sup_and_transversal
ctx-rh-gp259	Default	710	46.5 -67.3 36.2	G_pariet_inf-Angular
ctx-rh-gp260	FrontoParietal	60	41.5 -53.5 44	S_intrapariet_and_P_trans
ctx-rh-gp261	FrontoParietal	40	35.7 -56.7 45.2	S_intrapariet_and_P_trans
ctx-rh-gp262	DorsalAttn	157	33.5 -48.2 49.4	S_intrapariet_and_P_trans
ctx-rh-gp263	Visual	1230	31.7 -85.7 2.4	S_oc_middle_and_Lunatus
ctx-rh-gp264	Visual	434	43.8 -67.2 2	S_occipital_ant

ctx-rh-gp265	Visual	732	47.3 -52.4 -11.7	S_oc-temp_lat
ctx-rh-gp266	DorsalAttn	80	57 -53.8 -1.1	G_temporal_middle
ctx-rh-gp267	Visual	156	49 -54.5 8.8	S_temporal_sup
ctx-rh-gp268	Auditory	131	60.9 -2.2 10.7	G_and_S_subcentral
ctx-rh-gp269	Auditory	159	54.2 -13.6 16.9	G_and_S_subcentral
ctx-rh-gp270	SMhand	163	53 -22.7 39.1	S_postcentral
ctx-rh-gp271	DorsalAttn	232	47.3 2 37.6	S_precentral-inf-part
ctx-rh-gp272	FrontoParietal	169	37.8 28.7 35.6	G_front_middle
ctx-rh-gp273	FrontoParietal	357	41.8 29.1 21.6	S_front_inf
ctx-rh-gp274	CinguloOperc	289	50.1 3 3.9	G_front_inf-Opercular
ctx-rh-gp275	DorsalAttn	847	46.6 7.8 19.3	S_precentral-inf-part
ctx-rh-gp276	FrontoParietal	59	38.6 18.8 25.5	S_front_inf
ctx-rh-gp277	FrontoParietal	328	28.4 57 -5.1	G_and_S_frontomargin
ctx-rh-gp278	Default	280	4.8 65.1 -7.1	G_front_sup
ctx-rh-gp279	Default	423	7.2 48.4 -10.1	G_and_S_cingul-Ant
ctx-rh-gp280	None	237	2.9 18.7 -23.2	G_rectus
ctx-rh-gp281	None	219	35.1 37.3 -8.4	S_orbital-H_Shaped
ctx-rh-gp282	None	76	25.4 8.9 -15.7	G_oc-temp_med-Parahip
ctx-rh-gp283	None	297	21.2 30.3 -15.2	S_orbital-H_Shaped
ctx-rh-gp284	None	288	21.6 51.1 -14.1	S_orbital-H_Shaped
ctx-rh-gp285	None	39	11.9 25.7 -24.8	G_orbital
ctx-rh-gp286	None	94	13.5 20.3 -15.2	S_orbital_med-olfact
ctx-rh-gp287	None	288	10.9 39.1 -19.7	S_orbital_med-olfact
ctx-rh-gp288	None	109	2.2 39 -25.6	G_rectus
ctx-rh-gp289	None	77	62.3 -26.4 -16	G_temporal_middle
ctx-rh-gp290	Default	711	57.5 -7.4 -16.4	S_temporal_sup
ctx-rh-gp291	None	160	54.7 -7.8 -26.9	G_temporal_middle
ctx-rh-gp292	None	800	45.2 13.6 -30.1	Pole_temporal
ctx-rh-gp293	Visual	72	31.2 -45.6 -5.8	S_oc-temp_med_and_Lingual
ctx-rh-gp294	RetrosplenialTemporal	86	34.6 -35.6 -12.3	S_oc-temp_med_and_Lingual
ctx-rh-gp295	RetrosplenialTemporal	197	34.6 -23.9 -20.4	S_oc-temp_med_and_Lingual
ctx-rh-gp296	None	182	20.1 -21.4 -21.5	G_oc-temp_med-Parahip

ctx-rh-gp297	None	97	28 -0.4 -37.3	G_oc-temp_med-Parahip
ctx-rh-gp298	Visual	938	26.9 -69.1 -6.6	S_oc-temp_med_and_Lingual
ctx-rh-gp299	Visual	569	34.9 -44 -20	G_oc-temp_lat-fusifor
ctx-rh-gp300	None	162	36.8 7.7 -37.9	Pole_temporal
ctx-rh-gp301	None	283	54.5 -9.6 -37	G_temporal_inf
ctx-rh-gp302	None	71	56.4 -27 -19.4	S_temporal_inf
ctx-rh-gp303	None	183	31.1 2.2 -46.1	Pole_temporal
ctx-rh-gp304	None	162	39.5 -11.9 -29.7	S_collat_transv_ant
ctx-rh-gp305	None	73	31.6 -9.4 -35.5	G_oc-temp_med-Parahip
ctx-rh-gp306	None	106	43.4 -24.1 -20.8	S_collat_transv_ant
ctx-rh-gp307	Visual	188	13.8 -92.3 14.7	G_cuneus
ctx-rh-gp308	Visual	210	10.5 -73.8 -1.5	G_oc-temp_med-Lingual
ctx-rh-gp309	Visual	142	20.4 -87.3 -6.6	Pole_occipital
ctx-rh-gp310	Visual	161	5.1 -80.2 23.1	G_cuneus
ctx-rh-gp311	Visual	132	14.6 -70.3 23.3	S_parieto_occipital
ctx-rh-gp312	None	218	19.5 -10.8 -24.9	Unknown
ctx-rh-gp313	RetrosplenialTemporal	110	24.5 -36.2 -13.2	S_oc-temp_med_and_Lingual
ctx-rh-gp314	None	66	30.4 -18.8 -19.4	Unknown
ctx-rh-gp315	Default	200	21 32.8 42.1	S_front_sup
ctx-rh-gp316	Default	111	21.4 42.8 35.1	S_front_sup
ctx-rh-gp317	CinguloOperc	119	24.4 50.8 24.3	S_front_middle
ctx-rh-gp318	CinguloOperc	300	31.3 39.7 25.6	S_front_middle
ctx-rh-gp319	FrontoParietal	255	23.5 59.1 4.9	S_front_middle
ctx-rh-gp320	FrontoParietal	96	30.9 52.2 9.9	S_front_middle
ctx-rh-gp321	Default	285	16 61 19.8	G_front_sup
ctx-rh-gp322	Default	494	8.2 53.8 14	G_front_sup
ctx-rh-gp323	Default	118	5.9 54.9 29.4	G_front_sup
ctx-rh-gp324	Default	202	13.8 46.7 42.1	G_front_sup
ctx-rh-gp325	Default	252	6.8 44.5 34.8	G_front_sup
ctx-rh-gp326	Default	84	30.6 18.9 48.7	S_front_sup
ctx-rh-gp327	FrontoParietal	384	42.4 19.5 48.2	G_front_middle
ctx-rh-gp328	FrontoParietal	142	38.9 9.6 42.7	S_precentral-inf-part
ctx-rh-gp329	Auditory	16	39.7 -22.5 2.6	S_circular_insula_inf

ctx-rh-gp330	Auditory	415	55.8 2 -2	G_temp_sup-Lateral
ctx-rh-gp331	Default	101	54.4 1.1 -12.9	G_temp_sup-Lateral
ctx-rh-gp332	VentralAttn	130	57.1 -6.3 -7.7	S_temporal_sup
ctx-rh-gp333	VentralAttn	67	46.6 -21.5 -8.5	S_temporal_sup

Table 7. MID task contrasts of conditions

Contrast	Condition A	Condition B
antic_reward_vs_neutral	large_reward_antic small_reward_antic	neutral_antic
antic_loss_vs_neutral	large_loss_antic small_loss_antic	neutral_antic
reward_pos_vs_neg_feedback	large_reward_pos_feedback small_reward_pos_feedback	large_reward_neg_feedback small_reward_neg_feedback
loss_pos_vs_neg_feedback	large_loss_pos_feedback small_loss_pos_feedback	large_loss_neg_feedback small_loss_neg_feedback
antic_large_reward_vs_neutral	large_reward_antic	neutral_antic
antic_small_reward_vs_neutral	small_reward_antic	neutral_antic
antic_large_vs_small_reward	large_reward_antic	small_reward_antic
antic_large_loss_vs_neutral	large_loss_antic	neutral_antic
antic_small_loss_vs_neutral	small_loss_antic	neutral_antic
antic_large_vs_small_loss	large_loss_antic	small_loss_antic

Table 8. SST task contrasts of conditions

Contrast	Condition A	Condition B
correct_go_vs_fixation	correct_go	
correct_stop_vs_correct_go	correct_stop	correct_go
incorrect_stop_vs_correct_go	incorrect_stop	correct_go
any_stop_vs_correct_go	correct_stop incorrect_stop	correct_go
correct_stop_vs_incorrect_stop	correct_stop	incorrect_stop
incorrect_go_vs_correct_go	incorrect_go	correct_go
incorrect_go_vs_incorrect_stop	incorrect_go	incorrect_stop

Table 9. nBack task contrasts of conditions

Contrast	Condition A	Condition B
0_back_vs_fixation	0_back_place 0_back_negface 0_back_neutface 0_back_posface	
2_back_vs_fixation	2_back_place 2_back_negface 2_back_neutface 2_back_posface	
place_vs_fixation	0_back_place 2_back_place	
emotion_vs_fixation	0_back_negface 2_back_negface 0_back_posface 2_back_posface	
2_back_vs_0_back	2_back_place 2_back_negface 2_back_neutface 2_back_posface	0_back_place 0_back_negface 0_back_neutface 0_back_posface
face_vs_place	0_back_negface 2_back_negface 0_back_neutface 2_back_neutface 0_back_posface 2_back_posface	0_back_place 2_back_place
emotion_vs_neutface	0_back_negface 2_back_negface 0_back_posface 2_back_posface	0_back_neutface 2_back_neutface
negface_vs_neutface	0_back_negface 2_back_negface	0_back_neutface 2_back_neutface
posface_vs_neutface	0_back_posface 2_back_posface	0_back_neutface 2_back_neutface

Table 10. Restriction Spectrum Imaging measures

White, N.S., Leergaard, T.B., D'Arceuil, H., Bjaalie, J.G., Dale, A.M. (2013) Probing tissue microstructure with restriction spectrum imaging: Histological and theoretical validation. Hum Brain Mapp, 34:327-46.

White, N.S., McDonald, C., Farid, N., Kuperman, J., Karow, D., Schenker-Ahmed, N.M., Bartsch, H., Rakow-Penner, R., Holland, D., Shabaik, A., Bjornerud, A., Hope, T., Hattangadi-Gluth, J., Liss, M., Parsons, J.K., Chen, C.C., Raman, S., Margolis, D., Reiter, R.E., Marks, L., Kesari, S., Mundt, A.J., Kane, C.J., Carter, B.S., Bradley, W.G., Dale, A.M. (2014) Diffusion-weighted imaging in cancer: physical foundations and applications of restriction spectrum imaging. Cancer Res, 74:4638-52.

Name	Alias	Description	Size scale	Notes
RNI	N0	0th order FOD parameter divided by Euclidean norm of all parameters	restricted	isotropic
RND	ND	norm of directional FOD components (2nd and 4th order) divided by norm of all parameters	restricted	directional
RNT	NT	norm of all FOD parameters (0th, 2nd, and 4th order) divided by norm of all parameters	restricted	total
HNI	N0_s2	0th order FOD parameter divided by norm of all parameters	hindered	isotropic
HND	ND_s2	norm of directional FOD components (2nd and 4th order) divided by norm of all parameters	hindered	directional
HNT	NT_s2	norm of all FOD parameters (0th, 2nd, and 4th order) divided by norm of all parameters	hindered	total
FNI	NIf	isotroptic freewater component divided by norm of all parameters	free	isotropic