Supplementary Methods

Diffusion tensor image processing

A custom script was used to process the DTI data by wrapping previously published algorithms as described below (script available upon request). DTI data were visually controlled for artifacts. If repeated sequences were not possible for images with low quality, the data were discarded and excluded (**Supplementary Figure 1**). Brain masks were created using the *BET* command in FSL and then revised with morphological operations, as well as manual corrections.

A separate step using *topup* to correct susceptibility induced distortions was skipped in our study as all B0 images and diffusion-weighted frames were acquired using identical anteroposterior phase encoding directions. Spurious image distortions that originated from a combination of eddy currents and real head movement were corrected with the CUDA 8.0 implementation of the eddy command in the FSL software library (version 6.0) with the following parameters: 4 standard deviations as criterion for classifying a slice as outlier (ol_nstd=4), 10 slice to volume iterations (s2v_niter=10), 6 smoothing iterations, during which a filter width of 10, 6, 4, 2, 0, 0 mm for each subsequent smoothing iterations was used. Next, FA and mean diffusivity (MD) maps were calculated by running the *dtifit* command in FSL on the motion corrected DTI dataset; tensors were fitted with a weighted least squared algorithm. DTI data were further processed by the Bayesian multi-fiber estimation method BedpostX (CUDA 8.0 implementation for FSL 6.0), estimating up to 3 fiber populations per voxel (Hernandez *et al.* 2013).

Graph theory parameters

Global and nodal efficiency

The networks ability to transfer information in parallel was quantified by calculating the weighted global efficiency, which is the reciprocal of the harmonic mean of the shortest weighted path length. Networks that have a short average shortest path length between two nodes are considered topologically integrated and efficient (Latora et al. 2001). Global efficiency for a weighted graph G was calculated based on the following equation

$$E_{global}(G) = \frac{1}{N(N-1)} \sum_{i \neq j \in G} \frac{1}{d_{i,j}}$$

where *N* is the total number of nodes in the network *G*; $d_{i,j}$ is the weighted shortest paths length between nodes *i* and *j* (Latora et al. 2003). Accordingly, weighted nodal efficiency was calculated as nodal counterpart of the weighted global efficiency. Nodal efficiency quantifies the integration of a specific node with all other nodes in the network. It is the normalized sum of the inverse of the shortest path length $d_{i,j}$ of a specific node *i* to all other nodes (Latora et al. 2003).

$$E_{nodal}(i) = \frac{1}{N-1} \sum_{j \in G} \frac{1}{d_{i,j}}$$

We expect global and nodal efficiency to increase during neonatal brain development (Cao et al. 2017).

Local efficiency

Local efficiency as opposed to nodal efficiency quantifies the integration of a specific node within a subgraph G_i , encompassing all nodes that are immediate neighbours of the node (Latora *et al.* 2001, Latora *et al.* 2003). Thus, local efficiency is a measure of structural segregation.

$$E_{local}(i) = \frac{1}{N} \sum_{i \in G} E_{global}(G_i)$$

The average local efficiency across all nodes serves as global measure of the local efficiency of a network. Local efficiency is expected to decrease during neonatal brain development (Cao *et al.* 2017).

Strength

By summing the edge weights $(w_{i,j})$ of all edges connected to a node, nodal strength was calculated. Global strength was measured by averaging the strength of all nodes in the network (Barrat et al. 2004) and is expected to increase with brain network development.

$$s_i = \sum_{j \in G} w_{i,j}$$

Transitivity

Transitivity, which is sometimes also referred to as clustering coefficient, quantifies the probability that the nodes j and h, which are directly connected to node i are also directly connected with each other (Barrat et al. 2004). For global transitivity the number of connected triangles is divided by the number of connected triplets. For the nodal counterpart the weighted transitivity was calculated following the generalization by Barrat et al. (Barrat et al. 2004). $w_{i,h}$

is the edge weight; s_i is the sum of all neighboring edge weights; k_i is the vertex degree, i.e. the number of all edges connected to that node; a_{ij} denotes the element in the adjacency matrix.

$$transitivity_{i} = \frac{1}{s_{i}(k_{i}-1)} \sum_{j,h} \frac{w_{ij+}w_{ih}}{2} a_{ij}a_{ih}a_{jh}$$

Transitivity as measure of structural segregation is expected to decrease with brain network development (Cao et al. 2017).

Supplementary Figure 1



Supplementary Figure 1 Flow chart of included subjects and available connectomes.

Supplementary Table 1

Lobe	Region	Threshold*	ß*	SE*	95% CI*	P _{fdr} *	Amtpc	Acrit	
Controls > CHD									
Nodal efficiency									
	SFGdor.L	0,18	0,029	0,0054	[0.017; 0.042]	1,6E-06	0,48	0,25	
	SFGdor.R	0,18	0,028	0,0054	[0.016; 0.04]	0,000003	0,38	0,25	
	ORBsup.L	0,15	0,038	0,0068	[0.023; 0.053]	1,2E-06	0,71	0,25	
Encretal	ORBsup.R	0,08	0,029	0,006	[0.016; 0.043]	0,000021	0,63	0,25	
Frontal	ORBmid.L	0,11	0,074	0,012	[0.046; 0.1]	2,4E-07	0,89	0,25	
	OLF.L	0,18	0,02	0,0043	[0.01; 0.03]	0,000014	0,27	0,25	
	OLF.R	0,18	0,022	0,0041	[0.013; 0.031]	1,9E-06	0,45	0,25	
	SFGmed.L	0,15	0,035	0,007	[0.019; 0.051]	5,1E-06	0,29	0,25	
Incula	INS.L	0,18	0,022	0,0044	[0.013; 0.032]	3,3E-06	0,69	0,25	
Ilisula	INS.R	0,18	0,026	0,0041	[0.016; 0.035]	1,5E-07	0,69	0,25	
	ACG.R	0,18	0,027	0,005	[0.015; 0.038]	1,9E-06	0,59	0,25	
	DCG.L	0,18	0,026	0,0046	[0.016; 0.037]	6,5E-07	0,43	0,25	
Limbic	DCG.R	0,18	0,028	0,005	[0.017; 0.039]	8,8E-07	0,43	0,25	
	PCG.L	0,17	0,032	0,0054	[0.02; 0.045]	4,3E-07	0,71	0,25	
	PCG.R	0,18	0,042	0,0063	[0.028; 0.056]	3,2E-08	0,88	0,25	
	CAL.R	0,14	0,021	0,0044	[0.011; 0.031]	0,000013	0,36	0,25	
Occipital	MOG.R	0,13	0,026	0,0062	[0.012; 0.04]	0,000068	0,25	0,25	
	IOG.R	0,13	0,038	0,007	[0.022; 0.054]	1,7E-06	0,52	0,25	
	FFG.R	0,07	0,032	0,0074	[0.016; 0.049]	0,00015	0,62	0,25	
Parietal	ANG.R	0,18	0,023	0,0041	[0.014; 0.032]	8,8E-07	0,31	0,25	
SCGM	PUT.L	0,18	0,021	0,0043	[0.011; 0.031]	7,2E-06	0,37	0,25	
SCOM	PUT.R	0,18	0,022	0,0046	[0.012; 0.033]	7,5E-06	0,41	0,25	
	HES.L	0,18	0,021	0,0046	[0.011; 0.031]	0,000013	0,27	0,25	
Temporal	STG.L	0,18	0,02	0,0042	[0.01; 0.029]	0,000009	0,27	0,25	
	ITG.R	0,13	0,025	0,0053	[0.013; 0.037]	0,000015	0,34	0,25	
Strength									
	ORBsup.L	0,13	1,6	0,32	[0.89; 2.4]	0,00003	0,86	0,21	
Frontal	ORBsup.R	0,1	1,4	0,3	[0.74; 2.1]	0,000072	0,65	0,21	
	ORBmid.L	0,18	1,4	0,29	[0.73; 2]	0,000069	0,74	0,21	
	ORBmid.R	0,18	1,5	0,33	[0.7; 2.2]	0,00013	0,71	0,21	
	SFGmed.L	0,15	1,3	0,26	[0.74; 1.9]	0,000027	0,51	0,21	
	SFGmed.R	0,03	1,2	0,25	[0.68; 1.8]	0,000037	0,23	0,21	
Limbic	PCG.R	0,18	4,4	0,66	[2.9; 5.9]	3,3E-08	0,84	0,21	
Occipital	IOG.R	0,17	1,3	0,28	[0.66; 1.9]	0,000084	0,41	0,21	
CHD > Controls									
Transitivity									
Frontal	SFGdor.L	0,13	0,13	0,025	[0.072; 0.19]	5,1E-06	0,37	0,16	
	SFGdor.R	0,11	0,15	0,035	[0.075; 0.23]	0,00006	0,34	0,16	
Insula	INS.R	0,07	0,15	0,031	[0.08; 0.22]	0,000031	0,49	0,16	

	ACG.L	0,14	0,098	0,022	[0.048; 0.15]	0,000038	0,21	0,16
	DCG.L	0,13	0,067	0,011	[0.042; 0.092]	1,9E-07	0,5	0,16
	DCG.R	0,14	0,064	0,012	[0.035; 0.092]	4,9E-06	0,41	0,16
Limbic	PCG.L	0,15	0,11	0,02	[0.066; 0.16]	0,000001	0,57	0,16
	PCG.R	0,15	0,14	0,023	[0.085; 0.19]	2,3E-07	0,41	0,16
	HIP.L	0,16	0,06	0,011	[0.035; 0.086]	0,000002	0,21	0,16
	HIP.R	0,05	0,08	0,029	[0.013; 0.15]	0,013	0,45	0,16
SCGM	PAL.R	0,14	0,091	0,021	[0.044; 0.14]	0,000038	0,17	0,16
		-	Loc	al efficien	icy			1
	PreCG.L	0,03	0,94	0,2	[0.49; 1.4]	0,00023	0,23	0,14
	PreCG.R	0,04	1	0,23	[0.48; 1.5]	0,00053	0,15	0,14
Frontal	SFGdor.L	0,13	0,63	0,14	[0.32; 0.94]	0,00002	0,28	0,14
	SFGdor.R	0,11	0,71	0,15	[0.38; 1]	0,000019	0,41	0,14
	SMA.R	0,09	0,81	0,19	[0.37; 1.3]	0,00019	0,34	0,14
T 1.	INS.L	0,04	0,52	0,14	[0.2; 0.84]	0,0036	0,5	0,14
Insula	INS.R	0,06	0,67	0,14	[0.34; 0.99]	0,00011	0,74	0,14
	ACG.L	0,14	0,59	0,11	[0.34; 0.84]	0,000002	0,31	0,14
	DCG.L	0,06	0,53	0,11	[0.27; 0.78]	0,00011	0,65	0,14
	DCG.R	0,09	0,45	0,084	[0.25; 0.64]	0,000013	0,59	0,14
	PCG.L	0,18	0,42	0,069	[0.26; 0.58]	2,8E-07	0,58	0,14
Limbic	PCG.R	0,15	0,47	0,076	[0.29; 0.64]	1,5E-07	0,41	0,14
	HIP.L	0,06	0,42	0,12	[0.15; 0.69]	0,0017	0,42	0,14
	HIP.R	0,05	0,53	0,12	[0.26; 0.8]	0,00049	0,7	0,14
	PHG.L	0,06	0,42	0,16	[0.052; 0.78]	0,018	0,29	0,14
	AMYG.L	0,15	0,6	0,13	[0.3; 0.9]	0,00002	0,2	0,14
	CUN.L	0,18	0,36	0,07	[0.2; 0.51]	1,7E-06	0,19	0,14
Occipital	LING.L	0,14	0,5	0,1	[0.26; 0.73]	7,9E-06	0,2	0,14
	SOG.R	0,1	0,59	0,17	[0.2; 0.99]	0,0017	0,14	0,14
	PoCG.R	0,03	0,64	0,2	[0.19; 1.1]	0,012	0,3	0,14
	SMG.R	0,12	0,71	0,19	[0.27; 1.1]	0,00063	0,19	0,14
Parietal	PCUN.L	0,08	0,43	0,11	[0.19; 0.68]	0,00029	0,18	0,14
	PCUN.R	0,03	0,38	0,16	[0.018; 0.75]	0,049	0,36	0,14
	PCL.L	0,04	0,92	0,2	[0.47; 1.4]	0,00018	0,28	0,14
	CAU.R	0,08	0,5	0,12	[0.23; 0.78]	0,00025	0,32	0,14
SCGM	PUT.L	0,04	0,63	0,1	[0.4; 0.87]	4,5E-07	0,59	0,14
	PUT.R	0,05	0,45	0,097	[0.23; 0.67]	0,00037	0,52	0,14
	PAL.L	0,08	0,62	0,13	[0.31; 0.92]	0,000064	0,35	0,14
	PAL.R	0,14	0,48	0,078	[0.3; 0.65]	1,3E-07	0,43	0,14
	THA.L	0,14	0,34	0,062	[0.2; 0.48]	1,1E-06	0,51	0,14
Temporal	THA.R	0,06	0,38	0,084	[0.19; 0.57]	0,00014	0,5	0,14
	HES.L	0,04	0,45	0,2	[-0.0028; 0.89]	0,05	0,23	0,14
	MTG.R	0,05	0,55	0,16	[0.17; 0.92]	0,0044	0,18	0,14
	ITG.L	0,18	0,46	0,082	[0.27; 0.64]	5,3E-07	0,16	0,14
			5	Strength				
SCGM	THA.L	0,04	1,6	0,31	[0.92; 2.3]	0,000029	0,24	0,23

	THA.R	0,09	1,6	0,32	[0.92; 2.4]	0,000051	0,48	0,23
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Supplementary Table 1 Significant nodal level differences between preoperative CHD neonates and healthy controls as revealed by MTPC. As two one-sided tests were performed to determine the direction of the effects, results are grouped by the contrast "Controls > CHD" or "CHD > Controls". *Threshold indicates the cost threshold at which the strongest *ß coefficient was observed. Statistical parameters are given for that threshold. *P_{fdr} is the threshold-specific P-value corrected for multiple comparison across all 90 ROIs by means of the Benjamini Hochberg procedure. Amtpc and Acrit denote the results of the overall MTPC comparison across the whole range of thresholds. SCGM, subcortical gray matter.

PreCG Precentral gyrus Frontal SFGdor Superior frontal gyrus (orbital part) Frontal ORBsup Superior frontal gyrus (orbital part) Frontal ORBmid Middle frontal gyrus (orbital part) Frontal ORBmid Inferior frontal gyrus (orbital part) Frontal IFGoperc Inferior frontal gyrus (orbital part) Frontal ORBinf Inferior frontal gyrus (orbital part) Frontal ORL Rolandic operculum Frontal SMA Supplementary motor area Frontal OCLF Olfactory cortex Frontal SFGmed Superior frontal gyrus (medial orbital) Frontal ORB supmed Superior frontal gyrus (medial orbital) Frontal REC Rectus gyrus Limbic DCG Median cingulate and paracingulate gyri Limbic DCG Median cingulate gyrus Limbic HIP Hippocampus Limbic HIP Hippocampus Limbic CAL Calcarine fissure and surrounding cortex Occipital	Abbreviation	Name	Lobe
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ROLRolandic operculumFrontalSMASupplementary motor areaFrontalOLFOlfactory cortexFrontalSFGmedSuperior frontal gyrus (medial) orbital)FrontalORBsupmedSuperior frontal gyrus (medial orbital)FrontalRECRectus gyrusFrontalINSInsulaInsulaACGAnterior cingulate and paracingulate gyriLimbicDCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicHIPHippocampusLimbicPHGParahippocampal gyrusLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalSOGSuperior occipital gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalPGGPostentral gyrusOccipitalSOGSuperior parietal gyrusOccipitalFFGFusiform gyrusOccipitalPGSuperior parietal gyrusParietalSOGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGCaude nucleus, putamenSCGMPUTL	ORBinf	Inferior frontal gyrus (orbital part)	Frontal
SMASupplementary motor areaFrontalOLFOlfactory cortexFrontalSFGmedSuperior frontal gyrus (medial)FrontalORBsupmedSuperior frontal gyrus (medial)FrontalRECRectus gyrusFrontalINSInsulaInsulaACGAnterior cingulate and paracingulate gyriLimbicDCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicPHGHippocampusLimbicPHGParahippocampal gyrusLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalSOGSuperior occipital gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalPGGPosterior parietal gyrusOccipitalSOGSuperior occipital gyrusOccipitalPGGPosterior gyrusOccipitalPGGPosterior gyrusOccipitalPGGPosterior gyrusParietalPGGPosterior gyrusParietalPGGSuperior parietal gyrusParietalPGGSuperior gyrusParietalPGGSuperior gyrusParietalPGGSuperior gyrusParietalPGGSuperior gyrusParietalPGSuperior gyrusParietalPGSuperior gyrusParietalPGSuperior gyrusParietalPGCadute nu	ROL	Rolandic operculum	Frontal
OLFOlfactory cortexFrontalSFGmedSuperior frontal gyrus (medial)FrontalORBsupmedSuperior frontal gyrus (medial orbital)FrontalRECRectus gyrusFrontalINSInsulaInsulaACGAnterior cingulate and paracingulate gyriLimbicDCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicPHGParahippocampal gyrusLimbicPHGParahippocampal gyrusLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalSOGSuperior occipital gyrusOccipitalSOGSuperior occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalSOGSuperior parietal gyrusOccipitalPFGFusiform gyrusOccipitalPGGSuperior parietal gyrusParietalSPGSuperior parietal gyrusParietalPCGPostcentral gyrusParietalPGGSuperior parietal gyrusParietalPGGSuperior parietal gyrusParietalPCGSuperior parietal gyrusParietalPCGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGSuperior parietal gyrusParietalPGSuperior gyrusParietalPCLParcentral lobuleParietalPCL <t< td=""><td>SMA</td><td>Supplementary motor area</td><td>Frontal</td></t<>	SMA	Supplementary motor area	Frontal
SFGmedSuperior frontal gyrus (medial orbital)FrontalORBsupmedSuperior frontal gyrus (medial orbital)FrontalRECRectus gyrusFrontalINSInsulaInsulaACGAnterior cingulate and paracingulate gyriLimbicDCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicHIPHippocampusLimbicPHGParahippocampal gyrusLimbicAMYGAmgdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalSOGSuperior occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalPFGFusiform gyrusOccipitalSOGSuperior occipital gyrusOccipitalPFGFusiform gyrusOccipitalPFGFusiform gyrusOccipitalPFGSuperior parietal gyrusParietalPFGSuperior parietal gyrusParietalPAGSuperior parietal gyrusParietalPFGSuperior parietal gyrusParietalPFGSuperior parietal gyrusParietalPFGSuperior parietal gyrusParietalPFGSuperior parietal gyrusParietalPGCAngular gyrusParietalPAGSupramarginal gyrusParietalPGCAngular gyrusSCGMPUTLenticular nucleus, palidumSCGMPALLenticular nucleus, palidum </td <td>OLF</td> <td>Olfactory cortex</td> <td>Frontal</td>	OLF	Olfactory cortex	Frontal
ORBsupmedSuperior frontal gyrus (medial orbital)FrontalRECRectus gyrusFrontalINSInsulaInsulaACGAnterior cingulate and paracingulate gyriLimbicDCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicHIPHippocampusLimbicPHGParahippocampal gyrusLimbicAMYGAmygdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalSOGSuperior occipital gyrusOccipitalMOGInferior occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalFFGFusiform gyrusOccipitalPoCGPostentral gyrusOccipitalPoCGSuperior parietal gyrusParietalPoCGPostentral gyrusParietalPoCGSuperior parietal gyrusParietalPoCGSuperior parietal gyrusParietalPCLInferior parietal gyrusParietalPCUNPrecuneusParietalPCUNPrecuneusParietalPCLParacentral lobuleSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, putamenSCGMPALLenticular nucleus, putamenSCGMPALHeschl gyrusTemporalTHAThalamusSCGMPALHeschl gyrusTemporalPOSupTemporal gyrus	SFGmed	Superior frontal gyrus (medial)	Frontal
RECRectus gyrusFrontalINSInsulaInsulaACGAnterior cingulate and paracingulate gyriLimbicDCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicHIPHippocampusLimbicAMYGParahippocampal gyrusLimbicAMYGAmygdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalLINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalSOGSuperior occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalPCGPostentral gyrusOccipitalPCGSuperior parietal gyrusOccipitalPPCGSuperior parietal gyrusParietalSPGSuperior parietal gyrusParietalPLInferior parietal, supramarginal and angular gyriParietalSPGSuperior parietal gyrusParietalPCUNPrecuneusParietalPCUNPrecuneusSCGMPUTLenticular nucleus, putamenSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, putamenSCGMPALLenticular nucleus, putamenSCGMPALHeschl gyrusTemporalTHAThalamusSCGMPHGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal <td>ORBsupmed</td> <td>Superior frontal gyrus (medial orbital)</td> <td>Frontal</td>	ORBsupmed	Superior frontal gyrus (medial orbital)	Frontal
INSInsulaInsulaACGAnterior cingulate and paracingulate gyriLimbicDCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicHIPHippocampusLimbicPHGParahippocampal gyrusLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalLINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalFFGFusiform gyrusOccipitalPCGPostcentral gyrusOccipitalIPLInferior parietal, supramarginal and angular gyriParietalSPGSuperior parietal, supramarginal and angular gyriParietalPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalPCLParacentral lobuleParietalPCLParacentral lobuleParietalPCLLenticular nucleus, putamenSCGMPLTLenticular nucleus, putamenSCGMPLALenticular nucleus, putamenSCGMPLAHeschl gyrusTemporalTHAThalamusSCGMTHAThalamusSCGMPLSHeschl gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	REC	Rectus gyrus	Frontal
ACGAnterior cingulate and paracingulate gyriLimbicDCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicHIPHippocampusLimbicPHGParahippocampal gyrusLimbicAMYGAmygdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalFFGFusiform gyrusOccipitalPOCGPostcentral gyrusOccipitalPOCGPostcentral gyrusParietalPFGSuperior parietal gyrusParietalPFGSuperior parietal gyrusParietalPCUNPrecuneusParietalPCUNPrecuneusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalPCLLenticular nucleus, putamenSCGMPUTLenticular nucleus, palidumSCGMPHTHeschl gyrusTemporalPALLenticular nucleus, palidumSCGMPHTHeschl gyrusTemporal	INS	Insula	Insula
DCGMedian cingulate and paracingulate gyriLimbicPCGPosterior cingulate gyrusLimbicHIPHippocampusLimbicPHGParahippocampal gyrusLimbicAMYGAmygdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalPGGPostcentral gyrusOccipitalPGGSuperior accipital gyrusOccipitalPGGInferior occipital gyrusOccipitalPGGPostcentral gyrusOccipitalPGGSuperior parietal gyrusParietalPGGSuperior parietal gyrusParietalPGGSuperior parietal gyrusParietalPGGSuperior garietal gyrusParietalPCUNPrecuneusParietalPCUNPrecuneusParietalPCUNParacentral lobuleParietalPCLParacentral lobuleParietalPCLCaudate nucleus, putamenSCGMPUTLenticular nucleus, palidumSCGMPHTHeschl gyrusTemporalPALCenticular nucleus, palidumSCGMPHAThalamusSCGMPHAThalamusFemporalPHOSHeschl gyrusTemporalPHOSSuperior temporal gyrusTemporal	ACG	Anterior cingulate and paracingulate gyri	Limbic
PCGPosterior cingulate gyrusLimbicHIPHippocampusLimbicPHGParahippocampal gyrusLimbicAMYGAmygdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuncusOccipitalLINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalPOCGPostcentral gyrusOccipitalPOCGPostcentral gyrusOccipitalPOCGSuperior parietal gyrusParietalSPGSuperior parietal gyrusParietalSMGSupramarginal gyrusParietalPCLNPrecuneusParietalPCLParacentral lobuleParietalPCLCaudate nucleus, putamenSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, putamenSCGMPALLenticular nucleus, putamenSCGMPALHeschl gyrusTemporalTHAThalamusSCGMHESHeschl gyrusTemporalTPOsupTemporal gyrusTemporal	DCG	Median cingulate and paracingulate gyri	Limbic
HIPHippocampusLimbicPHGParahippocampal gyrusLimbicAMYGAmygdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalLINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalPGFeGFusiform gyrusOccipitalPGGPostcentral gyrusOccipitalPGGSuperior parietal gyrusParietalSPGSuperior parietal, supramarginal and angular gyriParietalPLInferior parietal, supramarginal and angular gyriParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleus, putamenSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMPALHeschl gyrusTemporalTHAThalamusSCGMTHAThalamusSCGMTHAThalamusSCGMTHAThalamusSCGMTHAThelamusTemporalTPOsupTemporal gyrusTemporalTPOsupTemporal gyrusTemporal	PCG	Posterior cingulate gyrus	Limbic
PHGParahippocampal gyrusLimbicAMYGAmygdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalLINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalPFGFusiform gyrusOccipitalPCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalPFGSuperior parietal gyrusParietalPGSupararginal gyrusParietalPGSupramarginal gyrusParietalPCLPrecuneusParietalPCLParacentral lobuleParietalPCLCaudate nucleus, putamenSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMPALThalamusSCGMTHAThalamusSCGMTHAThalamusTemporalTPOsupTemporal gyrusTemporalTPOsupTemporal gyrusTemporal	HIP	Hippocampus	Limbic
AMYGAmygdalaLimbicCALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalLINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalPGFusiform gyrusOccipitalPGPostcentral gyrusOccipitalPGSuperior parietal gyrusParietalSPGSuperior parietal gyrusParietalSMGSupramarginal gyrusParietalSMGSupramarginal gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleus, putamenSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, palidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	PHG	Parahippocampal gyrus	Limbic
CALCalcarine fissure and surrounding cortexOccipitalCUNCuneusOccipitalLINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalPFGFusiform gyrusOccipitalPoCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalSMGSupramarginal gyrusParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleus, putamenSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	AMYG	Amygdala	Limbic
CUNCuneusOccipitalLINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalFFGFusiform gyrusOccipitalPoCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalIPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleus, putamenSCGMPUTLenticular nucleus, pallidumSCGMPALLenticular nucleus, pallidumSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	CAL	Calcarine fissure and surrounding cortex	Occipital
LINGLingual gyrusOccipitalSOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalFFGFusiform gyrusOccipitalPoCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalIPLInferior occipital gyrusParietalSMGSuperior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalPCLCaudate nucleus, putamenSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, palidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	CUN	Cuneus	Occipital
SOGSuperior occipital gyrusOccipitalMOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalFGFusiform gyrusOccipitalPoCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalIPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleus, putamenSCGMPUTLenticular nucleus, palidumSCGMPALLenticular nucleus, palidumSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	LING	Lingual gyrus	Occipital
MOGMiddle occipital gyrusOccipitalIOGInferior occipital gyrusOccipitalFFGFusiform gyrusOccipitalPoCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalIPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleus, putamenSCGMPUTLenticular nucleus, pallidumSCGMPALLenticular nucleus, pallidumSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	SOG	Superior occipital gyrus	Occipital
IOGInferior occipital gyrusOccipitalFFGFusiform gyrusOccipitalPoCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalIPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleus, putamenSCGMPUTLenticular nucleus, pallidumSCGMPALLenticular nucleus, pallidumSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	MOG	Middle occipital gyrus	Occipital
FFGFusiform gyrusOccipitalPoCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalIPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleus, putamenSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	IOG	Inferior occipital gyrus	Occipital
PoCGPostcentral gyrusParietalSPGSuperior parietal gyrusParietalIPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleusSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	FFG	Fusiform gyrus	Occipital
SPGSuperior parietal gyrusParietalIPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleusSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	PoCG	Postcentral gyrus	Parietal
IPLInferior parietal, supramarginal and angular gyriParietalSMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleusSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	SPG	Superior parietal gyrus	Parietal
SMGSupramarginal gyrusParietalANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleusSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	IPL	Inferior parietal, supramarginal and angular gyri	Parietal
ANGAngular gyrusParietalPCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleusSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporal	SMG	Supramarginal gyrus	Parietal
PCUNPrecuneusParietalPCLParacentral lobuleParietalCAUCaudate nucleusSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	ANG	Angular gyrus	Parietal
PCLParacentral lobuleParietalCAUCaudate nucleusSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	PCUN	Precuneus	Parietal
CAUCaudate nucleusSCGMPUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	PCL	Paracentral lobule	Parietal
PUTLenticular nucleus, putamenSCGMPALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	CAU	Caudate nucleus	SCGM
PALLenticular nucleus, pallidumSCGMTHAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	PUT	Lenticular nucleus, putamen	SCGM
THAThalamusSCGMHESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	PAL	Lenticular nucleus, pallidum	SCGM
HESHeschl gyrusTemporalSTGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	THA	Thalamus	SCGM
STGSuperior temporal gyrusTemporalTPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	HES	Heschl gyrus	Temporal
TPOsupTemporal pole: superior temporal gyrusTemporalMTGMiddle temporal gyrusTemporal	STG	Superior temporal gyrus	Temporal
MTG Middle temporal gyrus Temporal	TPOsup	Temporal pole: superior temporal gyrus	Temporal
	MTG	Middle temporal gyrus	Temporal

Supplementary Table 2

TPOmid	Temporal pole: middle temporal gyrus	Temporal
ITG	Inferior temporal gyrus	Temporal

Supplementary Table 2 List of node abbreviations parcellated with the Automated Anatomical Labeling. Abbreviations are appended by **.L** for left hemispheric and **.R** for right hemispheric regions.

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