Supplementary Materials

A Novel Ontology-guided Attribute Partitioning Ensemble Learning for Early Prediction of Cognitive Deficit using Quantitative Structural MRI in Very Preterm Infants

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1. Data Balancing

To handle the data imbalance issue, we applied a data synthesis approach to the training dataset after the LOOCV data split. For the CINEPS dataset, we have a smaller number of very preterm infants in the high-risk group compared to those in the low-risk group with a ratio of 1:2. With an imbalanced dataset, machine learning models are prone to become majority class classifiers, i.e., they fail to learn the concepts of the minority class. To overcome this challenge, we first generated new synthetic samples for minority class (for model training only) using the synthetic minority over-sampling (SMOTE) method [1]. Specifically, we randomly select a data point from the minority class and compute its 5 nearest neighbors' distance with multiply a random number from the unit interval (i.e., (0,1)) to generate the new data for the minority class. Next, we implemented the edited nearest-neighbor [2] method (ENN). We select a random data point and find the majority class of its 5 nearest neighbors and remove the data point and its 5 nearest neighbors from both minority and majority classes if the class of the selected data point is different than its 5 nearest neighbors. This process is repeated until the balance ratio of high-risk and low-risk infants in the training dataset is approximately 1:1. The method was referred to as the SMOTE-ENN method [2] with additional details illustrated in **Supplementary Table 1**.

Supplementary Table 1. *SMOTE-ENN for data balancing*
Repeat:

Repeat:
1. Select random data from the minority class.
2. Compute the distance between selected data and its k nearest neighbors.
3. Multiply a random number from the unit interval (i.e., (0, 1)) to the distance to generate the new data.
4. Add the new data to the minority class.

Until the expected proportion of augmented minority class is satisfied.

Repeat:
1. Select random data and find the majority class of its k nearest neighbors.
2. If the class of selected data and the majority class of its k nearest neighbors is different, then delete that data and its k nearest neighbors from the sample.

Until the expected proportion of each class is satisfied.

2. Optimization of Machine Learning Models

Hyperparameters of each machine learning model in this work are summarized in **Supplementary Table 2**. All selected hyperparameters were optimized based on highest area under the receiver operator characteristic curve (AUC) using nested leave-one-out cross-validation.

Supplementary Table 2. Hyperparameters optimization of traditional machine learning models.

Model	Hyperparameter	Optimization	Selected Parameter
K nearest neighbor	Number of neighbors	5,10,15…,50	10
Logistic regression	L2 regularization	0.25,0.50,0.75,1.0	0.75
SVM	Margin penalty kernel scale	0.25,0.50,0.75,1.0,10,15 $\log_{10}^{-5}, \log_{10}^{-4}, \ldots, \log_{10}^{5}$	0.50 $\log_{10}^{2}$
Decision tree	Maximum depth	2,4,6,8,10	6
Random Forest	Number of decision trees maximum depth	50,100,150,200,250 2,4,6,8,10	200 6
Neural Network	L_1 regularization L_2 regularization	0.1,0.3,0.5,0.7 0.2,0.4,0.6,0.8	0.5 0.4
Bagging ensemble model	Number of base models Bootstrapped sample Maximum depth L_2 Regularization	5,10,15,20 50,100,150 2,4,6,8 0.001,0.01,0.1	10 100 6 0.001
Stacking ensemble model	Number of base models Bootstrapped sample Maximum depth L_2 Regularization	5,10,15,20 50,100,150 2,4,6,8 0.001,0.01,0.1	15 150 4 0.01
OAP-mNN	Number of nodes L_1 regularization L_2 regularization	10,15,20,25,30 0.1,0.3,0.5,0.7 0.2,0.4,0.6,0.8	20 0.3 0.2

Each step-in dot symbol in the range is assumed to be 1. Each subject in training process was normalized into a scale of [0, 1].

2.1 Peer Traditional Machine Learning Models

- *K-nearest neighbor*

We applied Euclidean distance as the similarity measurement between the subjects. We optimized the number of nearest neighbors through an empirical brute-force search from 5 to 50.

- *Logistic regression*

The Cross-Entropy loss with gradient descent algorithm was adopted to optimize the coefficient of logistic regression model. We also utilized L_2 regularization to prevent the overfitting for the training process. The regularization parameters were optimized through an empirical brute-force search from [0.25,0.50,0.75,1].

- *Support vector machine (SVM)*

For linear SVM, we brute-force searched for hyperparameters of margin penalty with empirical values of [0.25, 0.5, 0.75, 1,10,15].

- *Decision tree*

Classification and regression trees algorithm [3] was applied to generate decision trees. We grid searched the maximum depth of the decision tree with values of [2,4,6,8,10].

- *Random forest*

We optimized the maximum depth and number of trees by grid searching the empirical values of [2,4,6,8,10] and [50,100,150,200,250].

- *Neural Network*

We designed a 5-layer neural network with an input layer, 3 hidden layers and an output layer. The number of nodes in 3 hidden layers were adopted by the empirical values of [256,128,64] [4]. The Rectified Linear Unit (ReLU) was used as activation function for each hidden layer. In output layer, the Sigmoid function was used for performing the task of binary classification. To optimize the weights of neural network, we trained neural network 1000 epochs using Adam optimization algorithm with a learning rate 0.001 on a Cross-Entropy loss with L_1 and L_2 regularization terms. We grid searched the L_1 and L_2 regularization with values of [0.1,0.3,0.5,0.7] and [0.2,0.4,0.6,0.8].

2.2 Peer Ensemble Learning Models

- *Majority voting ensemble model*

The majority voting [5] considers the predictions by each above described individual machine learning models as a "vote", and the majority votes are used as the final prediction.

- *Bagging ensemble model*

Bagging trains independent base classifiers using bootstrapping on subjects and aggregates the predictions using majority voting [6]. We bootstrapped subjects with replacements to generate different subsets for training a group of parallel base XGBoost classifier [7], independently. We grid searched the number of base classifiers [5, 10, 15, 20] and number of bootstrapped subjects [50,100,150]. For the base classifier, we gird searched the maximum depth and regularization term with values of [2,4,6,8] and [0.001,0.01,0.1], respectively.

- *Stacking ensemble model*

Stacking combines the predictions of multiple base classifiers and fitting them through a meta-classifier [8]. We resampled subjects with replacements and generated subset subjects to train base XGBoost classifier. The predicted probabilities produced from base classifiers were fused by a meta neural network classifier, consisting of a feedforward fully connected hidden layer with ReLU function, and an output layer with Sigmoid function. By using a grid search method, we searched the number of base classifiers [5,10,15,20] , number of bootstrapped subjects [50,100,150]. For the base classifier Boost, the optimal maximum depth [2,4,6,8] and L_2 regularization term [0.001,0.01,0.1] were grid searched. We train the meta neural network classifier 1000 epochs using Adam optimization with a learning rate 0.001 to optimize the model weights.

- *Attribute Bagging Ensemble Learning (AB-EL)*

The AB-EL [9] has the exact same model architecture and range values of hyperparameters as our proposed OAP-EL. We grid searched the optimal number of base classifiers and feature size (**Supplementary Table 3**).

Supplementary Table 3. A grid search for the optimal number of base classifiers and feature size of each base-classifier for AB-EL model. The highest AUC of 0.69 was achieved when number base-models (x-axis) and feature size of each base-model (y-axis) were 10 and 110 individually.

AUC	5	10	15	20	25	30	35	40	45	50
50	0.58	0.62	0.68	0.64	0.58	0.63	0.66	0.65	0.65	0.64
60	0.63	0.64	0.58	0.65	0.63	0.58	0.64	0.62	0.66	0.68
70	0.56	0.58	0.59	0.64	0.62	0.66	0.68	0.65	0.67	0.63
80	0.62	0.65	0.66	0.66	0.65	0.62	0.58	0.63	0.61	0.59
90	0.57	0.62	0.68	0.58	0.63	0.57	0.68	0.67	0.63	0.68
100	0.59	0.68	0.62	0.63	0.57	0.64	0.66	0.64	0.62	0.63
110	0.62	0.69	0.58	0.61	0.68	0.66	0.62	0.67	0.58	0.60
120	0.59	0.57	0.66	0.59	0.62	0.67	0.58	0.63	0.54	0.66
130	0.64	0.63	0.61	0.65	0.58	0.62	0.60	0.62	0.59	0.56
140	0.58	0.61	0.64	0.62	0.65	0.58	0.59	0.66	0.66	0.57
150	0.63	0.58	0.56	0.62	0.65	0.65	0.57	0.60	0.54	0.60
160	0.58	0.63	0.59	0.65	0.65	0.63	0.65	0.58	0.56	0.66
170	0.61	0.57	0.58	0.63	0.68	0.58	0.55	0.59	0.58	0.62
180	0.60	0.63	0.62	0.58	0.66	0.54	0.57	0.63	0.60	0.68
190	0.64	0.62	0.63	0.54	0.59	0.60	0.63	0.60	0.64	0.65
200	0.59	0.57	0.60	0.59	0.60	0.64	0.61	0.64	0.62	0.58

2.3 OAP-enhanced Multi-Channel Neural Network (OAP-mNN)

We adopted our previous published multi-channel neural network (mNN) [10] to integrate the optimal feature sets drawn by our proposed ontology-guided attribute partitioning (OAP) method. We used 6 parallel channels based on the determined optimal number of feature clusters ($k = 6$). Each input layer connects a fully connected layer and concatenate all nodes into one signal channel to extract high-level features and connect to another fully connected layer. We grid searched number of nodes with values of [10,15,20,25,30] . The ReLU was applied as the activation function for each hidden layer, and the Sigmoid function was used for output layer. We trained OAP-mNN 1000 epochs using Adam optimization with a learning rate 0.001 on a Cross-Entropy loss with L_1 and L_2 regularization. The L_1 and L_2 terms with values of [0.1,0.3,0.5,0.7] and [0.2,0.4,0.6,0.8] were optimized using a grid search.

3. Silhouette Score Calculation

Let $f(x)$ be the mean intra-cluster distance between the selected sample x and other samples in the same cluster. And g(x) be the mean nearest-cluster distance between the selected sample x and other samples in the nearest cluster.
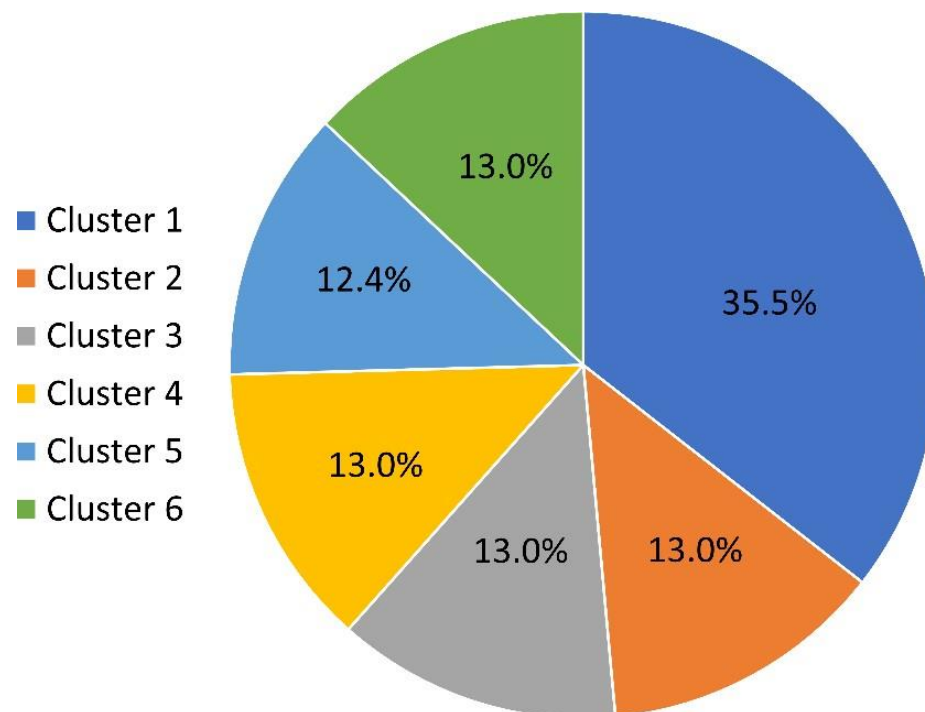
The Silhouette score S is defined as follows:

$$S = \frac{f(x) - g(x)}{max(f(x), g(x))} \in [-1,1]$$

A higher score of S indicates the better clustering performance. A negative score of S indicates that the samples might be assigned into a wrong cluster.

4. Analysis of OAP-derived Feature Clusters

Here, we display a pie chart showing the percentage of ROIs involved per feature cluster. As showed in **Supplemental Figure 1**, the largest feature cluster is Cluster 1, which involved 86.2% of ROIs.

Supplemental Figure 1. Pie chart showing the percentage of features within each cluster, and the percentage of brain regions of interest (ROIs) involved within individual feature clusters (*k*=6).

5. Feature Lists:

(510 total)

volume
volume - CSF
volume - Cortical gray matter
volume - White matter
volume - Background
volume - Ventricles
volume - Cerebellum
volume - Deep Gray Matter
volume - Brainstem
volume - Hippocampi and Amygdala
rel-volume - CSF
rel-volume - Cortical gray matter
rel-volume - White matter
rel-volume - Background
rel-volume - Ventricles
rel-volume - Cerebellum
rel-volume - Deep Gray Matter
rel-volume - Brainstem
rel-volume - Hippocampi and Amygdala
volume - Hippocampus left
volume - Hippocampus right
volume - Amygdala left
volume - Amygdala right
volume - Anterior temporal lobe medial part left GM
volume - Anterior temporal lobe medial part right GM
volume - Anterior temporal lobe lateral part left GM
volume - Anterior temporal lobe lateral part right GM
volume - Gyri parahippocampalis et ambiens anterior part left GM
volume - Gyri parahippocampalis et ambiens anterior part right GM
volume - Superior temporal gyrus middle part left GM
volume - Superior temporal gyrus middle part

(338 total)

rel-volume - CSF
rel-volume - Cortical gray matter
rel-volume - White matter
rel-volume - Background
rel-volume - Ventricles
rel-volume - Cerebellum
rel-volume - Deep Gray Matter
rel-volume - Brainstem
rel-volume - Hippocampi and Amygdala
rel-volume - Hippocampus left
rel-volume - Hippocampus right
rel-volume - Amygdala left
rel-volume - Amygdala right
rel-volume - Anterior temporal lobe medial part left GM
rel-volume - Anterior temporal lobe medial part right GM
rel-volume - Anterior temporal lobe lateral part left GM
rel-volume - Anterior temporal lobe lateral part right GM
rel-volume - Gyri parahippocampalis et ambiens anterior part left GM
rel-volume - Gyri parahippocampalis et ambiens anterior part right GM
rel-volume - Superior temporal gyrus middle part left GM
rel-volume - Superior temporal gyrus middle part right GM
rel-volume - Medial and inferior temporal gyri anterior part left GM
rel-volume - Medial and inferior temporal gyri anterior part right GM
rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left GM
rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right GM
rel-volume - Cerebellum left
rel-volume - Cerebellum right
rel-volume - Brainstem spans the midline
rel-volume - Insula right GM
rel-volume - Insula left GM
rel-volume - Occipital lobe right GM

right GM

volume - Medial and inferior temporal gyri anterior part left GM

volume - Medial and inferior temporal gyri anterior part right GM

volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left GM

volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right GM

volume - Cerebellum left

volume - Cerebellum right

volume - Brainstem spans the midline

volume - Insula right GM

volume - Insula left GM

volume - Occipital lobe right GM

volume - Occipital lobe left GM

volume - Gyri parahippocampalis et ambiens posterior part right GM

volume - Gyri parahippocampalis et ambiens posterior part left GM

volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right GM

volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left GM

volume - Medial and inferior temporal gyri posterior part right GM

volume - Medial and inferior temporal gyri posterior part left GM

volume - Superior temporal gyrus posterior part right GM

volume - Superior temporal gyrus posterior part left GM

volume - Cingulate gyrus anterior part right GM

volume - Cingulate gyrus anterior part left GM

volume - Cingulate gyrus posterior part right GM

volume - Cingulate gyrus posterior part left GM

volume - Frontal lobe right GM

volume - Frontal lobe left GM

volume - Parietal lobe right GM

volume - Parietal lobe left GM

volume - Caudate nucleus right

volume - Caudate nucleus left

rel-volume - Occipital lobe left GM

rel-volume - Gyri parahippocampalis et ambiens posterior part right GM

rel-volume - Gyri parahippocampalis et ambiens posterior part left GM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right GM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left GM

rel-volume - Medial and inferior temporal gyri posterior part right GM

rel-volume - Medial and inferior temporal gyri posterior part left GM

rel-volume - Superior temporal gyrus posterior part right GM

rel-volume - Superior temporal gyrus posterior part left GM

rel-volume - Cingulate gyrus anterior part right GM

rel-volume - Cingulate gyrus anterior part left GM

rel-volume - Cingulate gyrus posterior part right GM

rel-volume - Cingulate gyrus posterior part left GM

rel-volume - Frontal lobe right GM

rel-volume - Frontal lobe left GM

rel-volume - Parietal lobe right GM

rel-volume - Parietal lobe left GM

rel-volume - Caudate nucleus right

rel-volume - Caudate nucleus left

rel-volume - Thalamus right high intensity part in T2

rel-volume - Thalamus left high intensity part in T2

rel-volume - Subthalamic nucleus right

rel-volume - Subthalamic nucleus left

rel-volume - Lentiform Nucleus right

rel-volume - Lentiform Nucleus left

rel-volume - Corpus Callosum

rel-volume - Lateral Ventricle left

rel-volume - Lateral Ventricle right

rel-volume - Anterior temporal lobe medial part left WM

volume - Thalamus right high intensity part in T2

volume - Thalamus left high intensity part in T2

volume - Subthalamic nucleus right

volume - Subthalamic nucleus left

volume - Lentiform Nucleus right

volume - Lentiform Nucleus left

volume - Corpus Callosum

volume - Lateral Ventricle left

volume - Lateral Ventricle right

volume - Anterior temporal lobe medial part left WM

volume - Anterior temporal lobe medial part right WM

volume - Anterior temporal lobe lateral part left WM

volume - Anterior temporal lobe lateral part right WM

volume - Gyri parahippocampalis et ambiens anterior part left WM

volume - Gyri parahippocampalis et ambiens anterior part right WM

volume - Superior temporal gyrus middle part left WM

volume - Superior temporal gyrus middle part right WM

volume - Medial and inferior temporal gyri anterior part left WM

volume - Medial and inferior temporal gyri anterior part right WM

volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left WM

volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right WM

volume - Insula right WM

volume - Insula left WM

volume - Occipital lobe right WM

volume - Occipital lobe left WM

volume - Gyri parahippocampalis et ambiens posterior part right WM

rel-volume - Anterior temporal lobe medial part right WM

rel-volume - Anterior temporal lobe lateral part left WM

rel-volume - Anterior temporal lobe lateral part right WM

rel-volume - Gyri parahippocampalis et ambiens anterior part left WM

rel-volume - Gyri parahippocampalis et ambiens anterior part right WM

rel-volume - Superior temporal gyrus middle part left WM

rel-volume - Superior temporal gyrus middle part right WM

rel-volume - Medial and inferior temporal gyri anterior part left WM

rel-volume - Medial and inferior temporal gyri anterior part right WM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left WM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right WM

rel-volume - Insula right WM

rel-volume - Insula left WM

rel-volume - Occipital lobe right WM

rel-volume - Occipital lobe left WM

rel-volume - Gyri parahippocampalis et ambiens posterior part right WM

rel-volume - Gyri parahippocampalis et ambiens posterior part left WM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right WM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left WM

rel-volume - Medial and inferior temporal gyri posterior part right WM

rel-volume - Medial and inferior temporal gyri posterior part left WM

rel-volume - Superior temporal gyrus posterior part right WM

rel-volume - Superior temporal gyrus posterior part left WM

rel-volume - Cingulate gyrus anterior part right WM

rel-volume - Cingulate gyrus anterior part left WM

rel-volume - Cingulate gyrus posterior part right WM

volume - Gyri parahippocampalis et ambiens posterior part left WM

volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right WM

volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left WM

volume - Medial and inferior temporal gyri posterior part right WM

volume - Medial and inferior temporal gyri posterior part left WM

volume - Superior temporal gyrus posterior part right WM

volume - Superior temporal gyrus posterior part left WM

volume - Cingulate gyrus anterior part right WM

volume - Cingulate gyrus anterior part left WM

volume - Cingulate gyrus posterior part right WM

volume - Cingulate gyrus posterior part left WM

volume - Frontal lobe right WM

volume - Frontal lobe left WM

volume - Parietal lobe right WM

volume - Parietal lobe left WM

volume - CSF.1

volume - Extra-cranial background

volume - Intra-cranial background

volume - Thalamus right low intensity part in T2

volume - Thalamus left low intensity part in T2

volume - Temporal lobe left GM (merged region)

volume - Temporal lobe right GM (merged region)

volume - Temporal lobe left WM (merged region)

volume - Temporal lobe right WM (merged region)

volume - Superior temporal gyrus left GM (merged region)

volume - Superior temporal gyrus right GM (merged region)

volume - Superior temporal gyrus left WM

rel-volume - Cingulate gyrus posterior part left WM

rel-volume - Frontal lobe right WM

rel-volume - Frontal lobe left WM

rel-volume - Parietal lobe right WM

rel-volume - Parietal lobe left WM

rel-volume - CSF.1

rel-volume - Extra-cranial background

rel-volume - Intra-cranial background

rel-volume - Thalamus right low intensity part in T2

rel-volume - Thalamus left low intensity part in T2

rel-volume - Temporal lobe left GM (merged region)

rel-volume - Temporal lobe right GM (merged region)

rel-volume - Temporal lobe left WM (merged region)

rel-volume - Temporal lobe right WM (merged region)

rel-volume - Superior temporal gyrus left GM (merged region)

rel-volume - Superior temporal gyrus right GM (merged region)

rel-volume - Superior temporal gyrus left WM (merged region)

rel-volume - Superior temporal gyrus right WM (merged region)

rel-volume - Medial and inferior temporal gyri left GM (merged region)

rel-volume - Medial and inferior temporal gyri right GM (merged region)

rel-volume - Medial and inferior temporal gyri left WM (merged region)

rel-volume - Medial and inferior temporal gyri right WM (merged region)

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis left GM (merged region)

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis right GM (merged region)

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis left WM (merged region)

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis right WM (merged region)

rel-volume - Cingulate gyrus left GM (merged

(merged region)

volume - Superior temporal gyrus right WM (merged region)

volume - Medial and inferior temporal gyri left GM (merged region)

volume - Medial and inferior temporal gyri right GM (merged region)

volume - Medial and inferior temporal gyri left WM (merged region)

volume - Medial and inferior temporal gyri right WM (merged region)

volume - Lateral occipitotemporal gyrus gyrus fusiformis left GM (merged region)

volume - Lateral occipitotemporal gyrus gyrus fusiformis right GM (merged region)

volume - Lateral occipitotemporal gyrus gyrus fusiformis left WM (merged region)

volume - Lateral occipitotemporal gyrus gyrus fusiformis right WM (merged region)

volume - Cingulate gyrus left GM (merged region)

volume - Cingulate gyrus right GM (merged region)

volume - Cingulate gyrus left WM (merged region)

volume - Cingulate gyrus right WM (merged region)

volume - Gyri parahippocampalis et ambiens left GM (merged region)

volume - Gyri parahippocampalis et ambiens right GM (merged region)

volume - Gyri parahippocampalis et ambiens left WM (merged region)

volume - Gyri parahippocampalis et ambiens right WM (merged region)

rel-volume - Hippocampus left

rel-volume - Hippocampus right

rel-volume - Amygdala left

rel-volume - Amygdala right

rel-volume - Anterior temporal lobe medial part left GM

rel-volume - Anterior temporal lobe medial part right GM

rel-volume - Anterior temporal lobe lateral part left GM

rel-volume - Anterior temporal lobe lateral part right GM

rel-volume - Gyri parahippocampalis et ambiens anterior part left GM

rel-volume - Gyri parahippocampalis et ambiens

region)

rel-volume - Cingulate gyrus right GM (merged region)

rel-volume - Cingulate gyrus left WM (merged region)

rel-volume - Cingulate gyrus right WM (merged region)

rel-volume - Gyri parahippocampalis et ambiens left GM (merged region)

rel-volume - Gyri parahippocampalis et ambiens right GM (merged region)

rel-volume - Gyri parahippocampalis et ambiens left WM (merged region)

rel-volume - Gyri parahippocampalis et ambiens right WM (merged region)

thickness - Anterior temporal lobe medial part left

thickness - Anterior temporal lobe medial part right

thickness - Anterior temporal lobe lateral part left

thickness - Anterior temporal lobe lateral part right

thickness - Gyri parahippocampalis et ambiens anterior part left

thickness - Gyri parahippocampalis et ambiens anterior part right

thickness - Superior temporal gyrus middle part left

thickness - Superior temporal gyrus middle part right

thickness - Medial and inferior temporal gyri anterior part left

thickness - Medial and inferior temporal gyri anterior part right

thickness - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

thickness - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

thickness - Insula right

thickness - Insula left

thickness - Occipital lobe right

thickness - Occipital lobe left

thickness - Gyri parahippocampalis et ambiens posterior part right

thickness - Gyri parahippocampalis et ambiens posterior part left

thickness - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

thickness - Lateral occipitotemporal gyrus gyrus

anterior part right GM

rel-volume - Superior temporal gyrus middle part left GM

rel-volume - Superior temporal gyrus middle part right GM

rel-volume - Medial and inferior temporal gyri anterior part left GM

rel-volume - Medial and inferior temporal gyri anterior part right GM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left GM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right GM

rel-volume - Cerebellum left

rel-volume - Cerebellum right

rel-volume - Brainstem spans the midline

rel-volume - Insula right GM

rel-volume - Insula left GM

rel-volume - Occipital lobe right GM

rel-volume - Occipital lobe left GM

rel-volume - Gyri parahippocampalis et ambiens posterior part right GM

rel-volume - Gyri parahippocampalis et ambiens posterior part left GM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right GM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left GM

rel-volume - Medial and inferior temporal gyri posterior part right GM

rel-volume - Medial and inferior temporal gyri posterior part left GM

rel-volume - Superior temporal gyrus posterior part right GM

rel-volume - Superior temporal gyrus posterior part left GM

rel-volume - Cingulate gyrus anterior part right GM

rel-volume - Cingulate gyrus anterior part left GM

rel-volume - Cingulate gyrus posterior part right GM

rel-volume - Cingulate gyrus posterior part left GM

rel-volume - Frontal lobe right GM

rel-volume - Frontal lobe left GM

rel-volume - Parietal lobe right GM

rel-volume - Parietal lobe left GM

rel-volume - Caudate nucleus right

fusiformis posterior part left

thickness - Medial and inferior temporal gyri posterior part right

thickness - Medial and inferior temporal gyri posterior part left

thickness - Superior temporal gyrus posterior part right

thickness - Superior temporal gyrus posterior part left

thickness - Cingulate gyrus anterior part right

thickness - Cingulate gyrus anterior part left

thickness - Cingulate gyrus posterior part right

thickness - Cingulate gyrus posterior part left

thickness - Frontal lobe right

thickness - Frontal lobe left

thickness - Parietal lobe right

thickness - Parietal lobe left

thickness - Temporal lobe left (merged region)

thickness - Temporal lobe right (merged region)

thickness - Superior temporal gyrus left (merged region)

thickness - Superior temporal gyrus right (merged region)

thickness - Medial and inferior temporal gyri left (merged region)

thickness - Medial and inferior temporal gyri right (merged region)

thickness - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

thickness - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

thickness - Cingulate gyrus left (merged region)

thickness - Cingulate gyrus right (merged region)

thickness - Gyri parahippocampalis et ambiens left (merged region)

thickness - Gyri parahippocampalis et ambiens right (merged region)

sulc - Anterior temporal lobe medial part left

sulc - Anterior temporal lobe medial part right

sulc - Anterior temporal lobe lateral part left

sulc - Anterior temporal lobe lateral part right

sulc - Gyri parahippocampalis et ambiens anterior part left

sulc - Gyri parahippocampalis et ambiens anterior part right

rel-volume - Caudate nucleus left

rel-volume - Thalamus right high intensity part in T2

rel-volume - Thalamus left high intensity part in T2

rel-volume - Subthalamic nucleus right

rel-volume - Subthalamic nucleus left

rel-volume - Lentiform Nucleus right

rel-volume - Lentiform Nucleus left

rel-volume - Corpus Callosum

rel-volume - Lateral Ventricle left

rel-volume - Lateral Ventricle right

rel-volume - Anterior temporal lobe medial part left WM

rel-volume - Anterior temporal lobe medial part right WM

rel-volume - Anterior temporal lobe lateral part left WM

rel-volume - Anterior temporal lobe lateral part right WM

rel-volume - Gyri parahippocampalis et ambiens anterior part left WM

rel-volume - Gyri parahippocampalis et ambiens anterior part right WM

rel-volume - Superior temporal gyrus middle part left WM

rel-volume - Superior temporal gyrus middle part right WM

rel-volume - Medial and inferior temporal gyri anterior part left WM

rel-volume - Medial and inferior temporal gyri anterior part right WM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left WM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right WM

rel-volume - Insula right WM

rel-volume - Insula left WM

rel-volume - Occipital lobe right WM

rel-volume - Occipital lobe left WM

rel-volume - Gyri parahippocampalis et ambiens posterior part right WM

rel-volume - Gyri parahippocampalis et ambiens posterior part left WM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right WM

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left WM

sulc - Superior temporal gyrus middle part left

sulc - Superior temporal gyrus middle part right

sulc - Medial and inferior temporal gyri anterior part left

sulc - Medial and inferior temporal gyri anterior part right

sulc - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

sulc - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

sulc - Insula right

sulc - Insula left

sulc - Occipital lobe right

sulc - Occipital lobe left

sulc - Gyri parahippocampalis et ambiens posterior part right

sulc - Gyri parahippocampalis et ambiens posterior part left

sulc - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

sulc - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

sulc - Medial and inferior temporal gyri posterior part right

sulc - Medial and inferior temporal gyri posterior part left

sulc - Superior temporal gyrus posterior part right

sulc - Superior temporal gyrus posterior part left

sulc - Cingulate gyrus anterior part right

sulc - Cingulate gyrus anterior part left

sulc - Cingulate gyrus posterior part right

sulc - Cingulate gyrus posterior part left

sulc - Frontal lobe right

sulc - Frontal lobe left

sulc - Parietal lobe right

sulc - Parietal lobe left

sulc - Temporal lobe left (merged region)

sulc - Temporal lobe right (merged region)

sulc - Superior temporal gyrus left (merged region)

sulc - Superior temporal gyrus right (merged region)

rel-volume - Medial and inferior temporal gyri posterior part right WM

rel-volume - Medial and inferior temporal gyri posterior part left WM

rel-volume - Superior temporal gyrus posterior part right WM

rel-volume - Superior temporal gyrus posterior part left WM

rel-volume - Cingulate gyrus anterior part right WM

rel-volume - Cingulate gyrus anterior part left WM

rel-volume - Cingulate gyrus posterior part right WM

rel-volume - Cingulate gyrus posterior part left WM

rel-volume - Frontal lobe right WM

rel-volume - Frontal lobe left WM

rel-volume - Parietal lobe right WM

rel-volume - Parietal lobe left WM

rel-volume - CSF.1

rel-volume - Extra-cranial background

rel-volume - Intra-cranial background

rel-volume - Thalamus right low intensity part in T2

rel-volume - Thalamus left low intensity part in T2

rel-volume - Temporal lobe left GM (merged region)

rel-volume - Temporal lobe right GM (merged region)

rel-volume - Temporal lobe left WM (merged region)

rel-volume - Temporal lobe right WM (merged region)

rel-volume - Superior temporal gyrus left GM (merged region)

rel-volume - Superior temporal gyrus right GM (merged region)

rel-volume - Superior temporal gyrus left WM (merged region)

rel-volume - Superior temporal gyrus right WM (merged region)

rel-volume - Medial and inferior temporal gyri left GM (merged region)

sulc - Medial and inferior temporal gyri left (merged region)

sulc - Medial and inferior temporal gyri right (merged region)

sulc - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

sulc - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

sulc - Cingulate gyrus left (merged region)

sulc - Cingulate gyrus right (merged region)

sulc - Gyri parahippocampalis et ambiens left (merged region)

sulc - Gyri parahippocampalis et ambiens right (merged region)

curvature - Anterior temporal lobe medial part left

curvature - Anterior temporal lobe medial part right

curvature - Anterior temporal lobe lateral part left

curvature - Anterior temporal lobe lateral part right

curvature - Gyri parahippocampalis et ambiens anterior part left

curvature - Gyri parahippocampalis et ambiens anterior part right

curvature - Superior temporal gyrus middle part left

curvature - Superior temporal gyrus middle part right

curvature - Medial and inferior temporal gyri anterior part left

curvature - Medial and inferior temporal gyri anterior part right

curvature - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

curvature - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

curvature - Insula right

curvature - Insula left

curvature - Occipital lobe right

curvature - Occipital lobe left

curvature - Gyri parahippocampalis et ambiens posterior part right

curvature - Gyri parahippocampalis et ambiens posterior part left

rel-volume - Medial and inferior temporal gyri right GM (merged region)

rel-volume - Medial and inferior temporal gyri left WM (merged region)

rel-volume - Medial and inferior temporal gyri right WM (merged region)

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis left GM (merged region)

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis right GM (merged region)

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis left WM (merged region)

rel-volume - Lateral occipitotemporal gyrus gyrus fusiformis right WM (merged region)

rel-volume - Cingulate gyrus left GM (merged region)

rel-volume - Cingulate gyrus right GM (merged region)

rel-volume - Cingulate gyrus left WM (merged region)

rel-volume - Cingulate gyrus right WM (merged region)

rel-volume - Gyri parahippocampalis et ambiens left GM (merged region)

rel-volume - Gyri parahippocampalis et ambiens right GM (merged region)

rel-volume - Gyri parahippocampalis et ambiens left WM (merged region)

rel-volume - Gyri parahippocampalis et ambiens right WM (merged region)

thickness

thickness - Anterior temporal lobe medial part left

thickness - Anterior temporal lobe medial part right

thickness - Anterior temporal lobe lateral part left

thickness - Anterior temporal lobe lateral part right

thickness - Gyri parahippocampalis et ambiens anterior part left

thickness - Gyri parahippocampalis et ambiens anterior part right

thickness - Superior temporal gyrus middle part left

thickness - Superior temporal gyrus middle part right

thickness - Medial and inferior temporal gyri anterior part left

thickness - Medial and inferior temporal gyri anterior part right

thickness - Lateral occipitotemporal gyrus gyrus

curvature - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

curvature - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

curvature - Medial and inferior temporal gyri posterior part right

curvature - Medial and inferior temporal gyri posterior part left

curvature - Superior temporal gyrus posterior part right

curvature - Superior temporal gyrus posterior part left

curvature - Cingulate gyrus anterior part right

curvature - Cingulate gyrus anterior part left

curvature - Cingulate gyrus posterior part right

curvature - Cingulate gyrus posterior part left

curvature - Frontal lobe right

curvature - Frontal lobe left

curvature - Parietal lobe right

curvature - Parietal lobe left

curvature - Temporal lobe left (merged region)

curvature - Temporal lobe right (merged region)

curvature - Superior temporal gyrus left (merged region)

curvature - Superior temporal gyrus right (merged region)

curvature - Medial and inferior temporal gyri left (merged region)

curvature - Medial and inferior temporal gyri right (merged region)

curvature - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

curvature - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

curvature - Cingulate gyrus left (merged region)

curvature - Cingulate gyrus right (merged region)

curvature - Gyri parahippocampalis et ambiens left (merged region)

curvature - Gyri parahippocampalis et ambiens right (merged region)

GI - Anterior temporal lobe medial part left

fusiformis anterior part left

thickness - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

thickness - Insula right

thickness - Insula left

thickness - Occipital lobe right

thickness - Occipital lobe left

thickness - Gyri parahippocampalis et ambiens posterior part right

thickness - Gyri parahippocampalis et ambiens posterior part left

thickness - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

thickness - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

thickness - Medial and inferior temporal gyri posterior part right

thickness - Medial and inferior temporal gyri posterior part left

thickness - Superior temporal gyrus posterior part right

thickness - Superior temporal gyrus posterior part left

thickness - Cingulate gyrus anterior part right

thickness - Cingulate gyrus anterior part left

thickness - Cingulate gyrus posterior part right

thickness - Cingulate gyrus posterior part left

thickness - Frontal lobe right

thickness - Frontal lobe left

thickness - Parietal lobe right

thickness - Parietal lobe left

thickness - Temporal lobe left (merged region)

thickness - Temporal lobe right (merged region)

thickness - Superior temporal gyrus left (merged region)

thickness - Superior temporal gyrus right (merged region)

thickness - Medial and inferior temporal gyri left (merged region)

thickness - Medial and inferior temporal gyri right (merged region)

thickness - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

GI - Anterior temporal lobe medial part right

GI - Anterior temporal lobe lateral part left

GI - Anterior temporal lobe lateral part right

GI - Gyri parahippocampalis et ambiens anterior part left

GI - Gyri parahippocampalis et ambiens anterior part right

GI - Superior temporal gyrus middle part left

GI - Superior temporal gyrus middle part right

GI - Medial and inferior temporal gyri anterior part left

GI - Medial and inferior temporal gyri anterior part right

GI - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

GI - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

GI - Occipital lobe right

GI - Occipital lobe left

GI - Gyri parahippocampalis et ambiens posterior part right

GI - Gyri parahippocampalis et ambiens posterior part left

GI - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

GI - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

GI - Medial and inferior temporal gyri posterior part right

GI - Medial and inferior temporal gyri posterior part left

GI - Superior temporal gyrus posterior part right

GI - Superior temporal gyrus posterior part left

GI - Cingulate gyrus anterior part right

GI - Cingulate gyrus anterior part left

GI - Cingulate gyrus posterior part right

GI - Cingulate gyrus posterior part left

GI - Frontal lobe right

GI - Frontal lobe left

GI - Parietal lobe right

thickness - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

thickness - Cingulate gyrus left (merged region)

thickness - Cingulate gyrus right (merged region)

thickness - Gyri parahippocampalis et ambiens left (merged region)

thickness - Gyri parahippocampalis et ambiens right (merged region)

sulc

sulc - Anterior temporal lobe medial part left

sulc - Anterior temporal lobe medial part right

sulc - Anterior temporal lobe lateral part left

sulc - Anterior temporal lobe lateral part right

sulc - Gyri parahippocampalis et ambiens anterior part left

sulc - Gyri parahippocampalis et ambiens anterior part right

sulc - Superior temporal gyrus middle part left

sulc - Superior temporal gyrus middle part right

sulc - Medial and inferior temporal gyri anterior part left

sulc - Medial and inferior temporal gyri anterior part right

sulc - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

sulc - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

sulc - Insula right

sulc - Insula left

sulc - Occipital lobe right

sulc - Occipital lobe left

sulc - Gyri parahippocampalis et ambiens posterior part right

sulc - Gyri parahippocampalis et ambiens posterior part left

sulc - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

sulc - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

sulc - Medial and inferior temporal gyri posterior part right

GI - Parietal lobe left

GI - Temporal lobe left (merged region)

GI - Temporal lobe right (merged region)

GI - Superior temporal gyrus left (merged region)

GI - Superior temporal gyrus right (merged region)

GI - Medial and inferior temporal gyri left (merged region)

GI - Medial and inferior temporal gyri right (merged region)

GI - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

GI - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

GI - Cingulate gyrus left (merged region)

GI - Cingulate gyrus right (merged region)

GI - Gyri parahippocampalis et ambiens left (merged region)

GI - Gyri parahippocampalis et ambiens right (merged region)

rel-surface-area - Anterior temporal lobe medial part left

rel-surface-area - Anterior temporal lobe medial part right

rel-surface-area - Anterior temporal lobe lateral part left

rel-surface-area - Anterior temporal lobe lateral part right

rel-surface-area - Gyri parahippocampalis et ambiens anterior part left

rel-surface-area - Gyri parahippocampalis et ambiens anterior part right

rel-surface-area - Superior temporal gyrus middle part left

rel-surface-area - Superior temporal gyrus middle part right

rel-surface-area - Medial and inferior temporal gyri anterior part left

rel-surface-area - Medial and inferior temporal gyri anterior part right

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

rel-surface-area - Lateral occipitotemtemporalporal gyrus gyrus fusiformis anterior part right

rel-surface-area - Insula right

rel-surface-area - Insula left

sulc - Medial and inferior temporal gyri posterior part left

sulc - Superior temporal gyrus posterior part right

sulc - Superior temporal gyrus posterior part left

sulc - Cingulate gyrus anterior part right

sulc - Cingulate gyrus anterior part left

sulc - Cingulate gyrus posterior part right

sulc - Cingulate gyrus posterior part left

sulc - Frontal lobe right

sulc - Frontal lobe left

sulc - Parietal lobe right

sulc - Parietal lobe left

sulc - Temporal lobe left (merged region)

sulc - Temporal lobe right (merged region)

sulc - Superior temporal gyrus left (merged region)

sulc - Superior temporal gyrus right (merged region)

sulc - Medial and inferior temporal gyri left (merged region)

sulc - Medial and inferior temporal gyri right (merged region)

sulc - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

sulc - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

sulc - Cingulate gyrus left (merged region)

sulc - Cingulate gyrus right (merged region)

sulc - Gyri parahippocampalis et ambiens left (merged region)

sulc - Gyri parahippocampalis et ambiens right (merged region)

curvature

curvature - Anterior temporal lobe medial part left

curvature - Anterior temporal lobe medial part right

curvature - Anterior temporal lobe lateral part

rel-surface-area - Occipital lobe right

rel-surface-area - Occipital lobe left

rel-surface-area - Gyri parahippocampalis et ambiens posterior part right

rel-surface-area - Gyri parahippocampalis et ambiens posterior part left

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

rel-surface-area - Medial and inferior temporal gyri posterior part right

rel-surface-area - Medial and inferior temporal gyri posterior part left

rel-surface-area - Superior temporal gyrus posterior part right

rel-surface-area - Superior temporal gyrus posterior part left

rel-surface-area - Cingulate gyrus anterior part right

rel-surface-area - Cingulate gyrus anterior part left

rel-surface-area - Cingulate gyrus posterior part right

rel-surface-area - Cingulate gyrus posterior part left

rel-surface-area - Frontal lobe right

rel-surface-area - Frontal lobe left

rel-surface-area - Parietal lobe right

rel-surface-area - Parietal lobe left

rel-surface-area - Temporal lobe left (merged region)

rel-surface-area - Temporal lobe right (merged region)

rel-surface-area - Superior temporal gyrus left (merged region)

rel-surface-area - Superior temporal gyrus right (merged region)

rel-surface-area - Medial and inferior temporal gyri left (merged region)

rel-surface-area - Medial and inferior temporal gyri right (merged region)

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

rel-surface-area - Cingulate gyrus left (merged

left

curvature - Anterior temporal lobe lateral part right

curvature - Gyri parahippocampalis et ambiens anterior part left

curvature - Gyri parahippocampalis et ambiens anterior part right

curvature - Superior temporal gyrus middle part left

curvature - Superior temporal gyrus middle part right

curvature - Medial and inferior temporal gyri anterior part left

curvature - Medial and inferior temporal gyri anterior part right

curvature - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

curvature - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

curvature - Insula right

curvature - Insula left

curvature - Occipital lobe right

curvature - Occipital lobe left

curvature - Gyri parahippocampalis et ambiens posterior part right

curvature - Gyri parahippocampalis et ambiens posterior part left

curvature - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

curvature - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

curvature - Medial and inferior temporal gyri posterior part right

curvature - Medial and inferior temporal gyri posterior part left

curvature - Superior temporal gyrus posterior part right

curvature - Superior temporal gyrus posterior part left

curvature - Cingulate gyrus anterior part right

curvature - Cingulate gyrus anterior part left

curvature - Cingulate gyrus posterior part right

curvature - Cingulate gyrus posterior part left

curvature - Frontal lobe right

curvature - Frontal lobe left

curvature - Parietal lobe right

curvature - Parietal lobe left

curvature - Temporal lobe left (merged region)

curvature - Temporal lobe right (merged region)

curvature - Superior temporal gyrus left (merged region)

region)

rel-surface-area - Cingulate gyrus right (merged region)

rel-surface-area - Gyri parahippocampalis et ambiens left (merged region)

rel-surface-area - Gyri parahippocampalis et ambiens right (merged region)

curvature - Superior temporal gyrus right (merged region)

curvature - Medial and inferior temporal gyri left (merged region)

curvature - Medial and inferior temporal gyri right (merged region)

curvature - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

curvature - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

curvature - Cingulate gyrus left (merged region)

curvature - Cingulate gyrus right (merged region)

curvature - Gyri parahippocampalis et ambiens left (merged region)

curvature - Gyri parahippocampalis et ambiens right (merged region)

GI

GI - Anterior temporal lobe medial part left

GI - Anterior temporal lobe medial part right

GI - Anterior temporal lobe lateral part left

GI - Anterior temporal lobe lateral part right

GI - Gyri parahippocampalis et ambiens anterior part left

GI - Gyri parahippocampalis et ambiens anterior part right

GI - Superior temporal gyrus middle part left

GI - Superior temporal gyrus middle part right

GI - Medial and inferior temporal gyri anterior part left

GI - Medial and inferior temporal gyri anterior part right

GI - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

GI - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

GI - Insula right

GI - Insula left

GI - Occipital lobe right

GI - Occipital lobe left

GI - Gyri parahippocampalis et ambiens posterior part right

GI - Gyri parahippocampalis et ambiens posterior part left

GI - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

GI - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

GI - Medial and inferior temporal gyri posterior part right

GI - Medial and inferior temporal gyri posterior part left

GI - Superior temporal gyrus posterior part right

GI - Superior temporal gyrus posterior part left

GI - Cingulate gyrus anterior part right

GI - Cingulate gyrus anterior part left

GI - Cingulate gyrus posterior part right

GI - Cingulate gyrus posterior part left

GI - Frontal lobe right

GI - Frontal lobe left

GI - Parietal lobe right

GI - Parietal lobe left

GI - Temporal lobe left (merged region)

GI - Temporal lobe right (merged region)

GI - Superior temporal gyrus left (merged region)

GI - Superior temporal gyrus right (merged region)

GI - Medial and inferior temporal gyri left (merged region)

GI - Medial and inferior temporal gyri right (merged region)

GI - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

GI - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

GI - Cingulate gyrus left (merged region)

GI - Cingulate gyrus right (merged region)

GI - Gyri parahippocampalis et ambiens left (merged region)

GI - Gyri parahippocampalis et ambiens right (merged region)

surface-area

surface-area - Anterior temporal lobe medial part left

surface-area - Anterior temporal lobe medial part right

surface-area - Anterior temporal lobe lateral part left

surface-area - Anterior temporal lobe lateral part right

surface-area - Gyri parahippocampalis et ambiens anterior part left

surface-area - Gyri parahippocampalis et ambiens anterior part right

surface-area - Superior temporal gyrus middle part left

surface-area - Superior temporal gyrus middle part right

surface-area - Medial and inferior temporal gyri anterior part left

surface-area - Medial and inferior temporal gyri anterior part right

surface-area - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

surface-area - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

surface-area - Insula right

surface-area - Insula left

surface-area - Occipital lobe right

surface-area - Occipital lobe left

surface-area - Gyri parahippocampalis et ambiens posterior part right

surface-area - Gyri parahippocampalis et ambiens posterior part left

surface-area - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

surface-area - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

surface-area - Medial and inferior temporal gyri posterior part right

surface-area - Medial and inferior temporal gyri posterior part left

surface-area - Superior temporal gyrus posterior part right

surface-area - Superior temporal gyrus posterior part left

surface-area - Cingulate gyrus anterior part right

surface-area - Cingulate gyrus anterior part left

surface-area - Cingulate gyrus posterior part right

surface-area - Cingulate gyrus posterior part left

surface-area - Frontal lobe right

surface-area - Frontal lobe left

surface-area - Parietal lobe right

surface-area - Parietal lobe left

surface-area - Temporal lobe left (merged region)

surface-area - Temporal lobe right (merged region)

surface-area - Superior temporal gyrus left (merged region)

surface-area - Superior temporal gyrus right (merged region)

surface-area - Medial and inferior temporal gyri left (merged region)

surface-area - Medial and inferior temporal gyri right (merged region)

surface-area - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

surface-area - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

surface-area - Cingulate gyrus left (merged region)

surface-area - Cingulate gyrus right (merged region)

surface-area - Gyri parahippocampalis et ambiens left (merged region)

surface-area - Gyri parahippocampalis et ambiens right (merged region)

rel-surface-area - Anterior temporal lobe medial part left

rel-surface-area - Anterior temporal lobe medial part right

rel-surface-area - Anterior temporal lobe lateral part left

rel-surface-area - Anterior temporal lobe lateral part right

rel-surface-area - Gyri parahippocampalis et ambiens anterior part left

rel-surface-area - Gyri parahippocampalis et ambiens anterior part right

rel-surface-area - Superior temporal gyrus middle part left

rel-surface-area - Superior temporal gyrus middle part right

rel-surface-area - Medial and inferior temporal gyri anterior part left

rel-surface-area - Medial and inferior temporal gyri anterior part right

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis anterior part left

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis anterior part right

rel-surface-area - Insula right

rel-surface-area - Insula left

rel-surface-area - Occipital lobe right

rel-surface-area - Occipital lobe left

rel-surface-area - Gyri parahippocampalis et ambiens posterior part right

rel-surface-area - Gyri parahippocampalis et ambiens posterior part left

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis posterior part right

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis posterior part left

rel-surface-area - Medial and inferior temporal gyri posterior part right

rel-surface-area - Medial and inferior temporal gyri posterior part left

rel-surface-area - Superior temporal gyrus posterior part right

rel-surface-area - Superior temporal gyrus posterior part left

rel-surface-area - Cingulate gyrus anterior part right

rel-surface-area - Cingulate gyrus anterior part left

rel-surface-area - Cingulate gyrus posterior part right

rel-surface-area - Cingulate gyrus posterior part left

rel-surface-area - Frontal lobe right

rel-surface-area - Frontal lobe left

rel-surface-area - Parietal lobe right

rel-surface-area - Parietal lobe left

rel-surface-area - Temporal lobe left (merged region)

rel-surface-area - Temporal lobe right (merged region)

rel-surface-area - Superior temporal gyrus left (merged region)

rel-surface-area - Superior temporal gyrus right (merged region)

rel-surface-area - Medial and inferior temporal gyri left (merged region)

rel-surface-area - Medial and inferior temporal gyri right (merged region)

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis left (merged region)

rel-surface-area - Lateral occipitotemporal gyrus gyrus fusiformis right (merged region)

rel-surface-area - Cingulate gyrus left (merged region)

rel-surface-area - Cingulate gyrus right (merged region)

rel-surface-area - Gyri parahippocampalis et ambiens left (merged region)

rel-surface-area - Gyri parahippocampalis et ambiens right (merged region)

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