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## 研究进展

### 人脑连接组计划首次发布脑磁图数据集

3月4日,华盛顿大学与明尼苏达大学作为人脑连接组计划(Human Connectome Project , HCP)的联合参与者首次发布脑磁图(Magnetoencephalography , MEG)数据集。MEG1 (HCP MEG Initial) 为14位(均为同卵双胞胎)健康成人被试在静息态(rMEG)及感觉、运动和认知测量3种任务下的10组完备的高质量数据(数据类型见正文下方)。

通过ConnectomeDB数据库可获取约300GB的MEG1数据,其中大部分HCP影像和行为数据注册后可供全球研究人员获取, 下载地址:

<https://db.humanconnectome.org/app/template/Login.vm;jsessionid=F8866779BA3488B273A55C3D32236133>。

HCP MEG 专有分析软件“megconnectome software version 1.0”经注册可免费下载使用,

下载地址: <http://humanconnectome.org/documentation/MEG1/meg-pipeline.html>。

更多信息可通过 HCP MEG1 数据参考手册获得,

下载地址: <http://humanconnectome.org/documentation/MEG1/>

**MEG1 包含如下数据类型:**

- raw, unprocessed MEG data in 4D Neuroimaging format
- co-registration information (in the form of transformation matrices) that allow coordinate transformations between individual subject MEG coordinate systems and the MNI coordinate system
- volume conduction model of the head (in MATLAB format)
- regular 3-D source models (in MATLAB format)
- E-Prime log files (tab-delimited and as Excel spreadsheets)
- lists of bad channels and bad segments
- sets of independent components (each comprising the time course and the sensor map) together with the related classification output
- cleaned channel-level processed data aligned to stimulus and response onsets (for the task data) or segmented in short pieces (2 sec epochs for the resting state data)
- averaged event-related fields and time-frequency estimates of power (for the task data)

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- averaged power spectra (for the resting state data)

整理自：

<http://humanconnectome.org/about/pressroom/project-news/hcp-releases-initial-meg-dataset/>

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