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**Project title:** MODMA Dataset: a Multi-modal Open Dataset for Mental-disorder Analysis

The following files have been archived:

File name	File description (Short description of content, sample size, format, any linking between different types of data, i.e., survey and interviews/focus groups)
EEG_128channels_resting_lanzhou_2015.zip	128-channel resting-state recordings; 24 Major Depressive Disorder subjects and 29 Healthy Control subjects; Age range: 16-52 years old; Includes: 1) demographic data, 2) psychological assessments.
EEG_128channels_ERP_lanzhou_2015.zip	128-channel Event-Related Potential recordings; 24 Major Depressive Disorder subjects and 29 Healthy Control subjects; Age range: 16-52 years old; Includes: 1) demographic data, 2) psychological assessments.
EEG_3channels_resting_lanzhou_2015.zip	3-channel resting-state recordings; 26 Major Depressive Disorder subjects and 29 Healthy Control subjects; Age range: 16-56 years old; Includes: 1) demographic data, 2) psychological assessments
audio_lanzhou_2015.zip	Audio recordings; 23 Major Depressive Disorder subjects and 29 Healthy Control subjects; Age range: 18-52 years old;

	Includes: 1) demographic data, 2) psychological assessments.
Behavioral_Data.zip	behavioral data of all the subjects (.edf files)
MODMA EEG BIDS format.zip, MODMA EEG BIDS format.z01, MODMA EEG BIDS format.z02, MODMA EEG BIDS format.z03, MODMA EEG BIDS format.z04, MODMA EEG BIDS format.z05, MODMA EEG BIDS format.z06, MODMA EEG BIDS format.z07, MODMA EEG BIDS format.z08, MODMA EEG BIDS format.z09, MODMA EEG BIDS format.z10	128-electrodes EEG data in Brain Imaging Data Structure (BIDS) format. 24 Major Depressive Disorder subjects and 29 Healthy Control subjects; Age range: 16-52 years old; Includes: 1) demographic data, 2) psychological assessments.
Methodology.docx	Description file of the methodology used to collect the dataset.
InformedConsent.pdf	A translated copy of the original informed Consent.
InformationSheet.pdf	A sample of the Information Sheet used in each data packages.
ReadMe.pdf	Description file of all the available files.

**Publications:** (based on this data, if any)

1. Cai, H., Gao, Y., Sun, S., Li, N., Tian, F., Xiao, H., Li, J., Yang, Z., Li, X., Zhao, Q., Liu, Z., Yao, Z., Yang, M., Peng, H., Zhu, J., Zhang, X., Hu, X., & Hu, B. (2020). MODMA dataset: a Multi-modal Open Dataset for Mental-disorder Analysis. arXiv preprint arXiv:2002.09283.
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3. Hu, B., Rao, J., Li, X., Cao, T., Li, J., Majoe, D., & Gutknecht, J. (2017). Emotion regulating attentional control abnormalities in major depressive disorder: an event-related potential study. *Scientific reports*, 7(1), 1-21.
4. Sun, S., Li, J., Chen, H., Gong, T., Li, X., & Hu, B. (2020). A study of resting-state EEG biomarkers for depression recognition. arXiv preprint arXiv:2002.11039.
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6. Peng, H., Xia, C., Wang, Z., Zhu, J., Zhang, X., Sun, S., ... & Li, X. (2019). Multivariate Pattern Analysis of EEG-Based Functional Connectivity: A Study on the Identification of Depression. *IEEE Access*, 7, 92630-92641.
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11. Cai, H., Qu, Z., Li, Z., Zhang, Y., Hu, X., & Hu, B. (2020). Feature-level fusion approaches based on multimodal EEG data for depression recognition. *Information Fusion*, 59, 127-138.