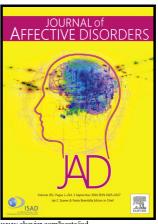
# Author's Accepted Manuscript

The dynamic characteristics of the anterior cingulate cortex in resting-state fMRI of patients with depression

Hongna Zheng, Feng Li, Qijing Bo, Xianbin Li, Li Yao, Zhijun Yao, Chuanyue Wang, Xia Wu



vww.elsevier.com/locate/iad

PII: S0165-0327(17)30060-5

https://doi.org/10.1016/j.jad.2017.11.026 DOI:

JAD9340 Reference:

To appear in: Journal of Affective Disorders

Received date: 11 January 2017 Revised date: 15 October 2017 Accepted date: 7 November 2017

Cite this article as: Hongna Zheng, Feng Li, Qijing Bo, Xianbin Li, Li Yao, Zhijun Yao, Chuanyue Wang and Xia Wu, The dynamic characteristics of the anterior cingulate cortex in resting-state fMRI of patients with depression, Journal of Affective Disorders, https://doi.org/10.1016/j.jad.2017.11.026

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

### **ACCEPTED MANUSCRIPT**

# The dynamic characteristics of the anterior cingulate cortex in resting-state fMRI of patients with depression

Hongna Zheng<sup>a</sup>, Feng Li<sup>b</sup>, Qijing Bo<sup>b</sup>, Xianbin Li<sup>b</sup>, Li Yao<sup>a</sup>, Zhijun Yao<sup>c</sup>, Chuanyue Wang<sup>b\*</sup>, Xia Wu<sup>a\*</sup>

<sup>a</sup>College of Information Science and Technology, Beijing Normal University, Beijing, 100875, China

<sup>b</sup>Beijing Anding Hospital of Capital Medical University, Beijing Key Laboratory for mental disorders, Center of Schizphrenia, Beijing Institute for Brain Disorders, Beijing 10088, China

<sup>c</sup>Center for Computational Medicine, School of Information Science and Engineering, Lanzhou University, Lanzhou, China

wuxia@bnu.edu.cn

wang.cy@163.net

\*Corresponding author: Dr. Xia Wu. College of Information Science and Technology, Beijing Normal University, No. 19 Xin Jie Kou Wai Da Jie, Beijing, 100875, China;

\*Corresponding author: Dr. ChuanyueWang, Beijing Anding Hospital of Capital Medical University, Beijing Key Laboratory for mental disorders, Beijing Institute for Brain Disorders, Beijing 10088, China

## **Abstract**

#### **Background**

The *anterior cingulate cortex* (ACC) is part of the limbic system of the brain. It is a bridge between attentional and emotional processing, which is responsible for the integration of visceral, attentional, and affective information. Lesioning of the ACC, which produces striking changes, is used to treat *major depression disorder* (MDD). Moreover, the brain dynamically integrates and coordinates functions of its different subparts to realize its cognitive capability. Hence, the spatio-temporal community distribution of the ACC is necessary to completely understand MDD.

#### Download English Version:

# https://daneshyari.com/en/article/8815909

Download Persian Version:

https://daneshyari.com/article/8815909

<u>Daneshyari.com</u>