

# Author's Accepted Manuscript

## Differential Brain Network Activity Across Mood States in Bipolar Disorder

Roscoe O. Brady, Neeraj Tandon, Grace A. Masters, Allison Margolis, Bruce M. Cohen, Matcheri Keshavan, Dost Öngür



PII: S0165-0327(16)31084-9  
DOI: <http://dx.doi.org/10.1016/j.jad.2016.09.041>  
Reference: JAD8482

To appear in: *Journal of Affective Disorders*

Received date: 28 June 2016  
Revised date: 21 August 2016  
Accepted date: 27 September 2016

Cite this article as: Roscoe O. Brady, Neeraj Tandon, Grace A. Masters, Allison Margolis, Bruce M. Cohen, Matcheri Keshavan and Dost Öngür, Differential Brain Network Activity Across Mood States in Bipolar Disorder, *Journal of Affective Disorders*, <http://dx.doi.org/10.1016/j.jad.2016.09.041>

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.

**Differential Brain Network Activity Across Mood States in Bipolar Disorder**

Roscoe O. Brady Jr., MD, PhD<sup>a,b,c\*</sup>, Neeraj Tandon BS<sup>a,c</sup>, Grace A. Masters, MA<sup>b,c</sup>, Allison Margolis BS<sup>b,c</sup>, Bruce M. Cohen MD, PhD<sup>c,d</sup>, Matcheri Keshavan MD<sup>a,c</sup>, Dost Öngür MD, PhD<sup>b,c</sup>

<sup>a</sup>Department of Psychiatry, Beth Israel Deaconess Medical Center, Boston, Massachusetts

<sup>b</sup>Psychotic Disorders Division, McLean Hospital, Belmont, Massachusetts

<sup>c</sup>Department of Psychiatry, Harvard Medical School, Boston, Massachusetts

<sup>d</sup>Program for Neuropsychiatric Research, McLean Hospital, Belmont, Massachusetts

\*Corresponding author. 75 Fenwood Road, Room 616, Boston, MA 02115. Tel.: 617 754 1261; Fax: 617 754 1250. [robbrady@bidmc.harvard.edu](mailto:robbrady@bidmc.harvard.edu)

**Abstract***Background*

This study aimed to identify how the activity of large-scale brain networks differs between mood states in bipolar disorder. The authors measured spontaneous brain activity in subjects with bipolar disorder in mania and euthymia and compared these states to a healthy comparison population.

*Methods*

23 subjects with bipolar disorder type I in a manic episode, 24 euthymic bipolar I subjects, and 23 matched healthy comparison (HC) subjects underwent resting state fMRI scans. Using an existing parcellation of the whole brain, we measured functional connectivity between brain regions and identified significant differences between groups.

*Results*

In unbiased whole-brain analyses, functional connectivity between parietal, occipital, and frontal nodes within the dorsal attention network (DAN) were significantly greater in mania than euthymia or HC subjects. In the default mode network (DMN), connectivity between dorsal frontal nodes and the rest of the DMN differentiated both mood state and diagnosis.

*Limitations*

The bipolar groups were separate cohorts rather than subjects imaged longitudinally across mood states.

*Conclusions*

Bipolar mood states are associated with highly significant alterations in connectivity in two large-scale brain

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات