## Accepted Manuscript

Title: Human Amygdala Functional Network Development: A Cross-Sectional Study from 3 Months to 5 Years of Age

Authors: L.J. Gabard-Durnam, J. O'Muircheartaigh, H. Dirks, D.C. Dean III, N. Tottenham, S. Deoni

PII: S1878-9293(18)30046-X

DOI: https://doi.org/10.1016/j.dcn.2018.06.004

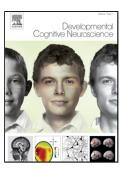
Reference: DCN 585

To appear in:

Received date: 21-2-2018 Revised date: 11-6-2018 Accepted date: 12-6-2018

Please cite this article as: Gabard-Durnam LJ, O'Muircheartaigh J, Dirks H, Dean DC, Tottenham N, Deoni S, Human Amygdala Functional Network Development: A Cross-Sectional Study from 3 Months to 5 Years of Age, *Developmental Cognitive Neuroscience* (2018), https://doi.org/10.1016/j.dcn.2018.06.004

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 proof before it is published in its final 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.



Human Amygdala Functional Network Development: A Cross-Sectional Study from 3 Months

to 5 Years of Age

Running Title: Human Amygdala Functional Development

L.J. Gabard-Durnam<sup>1\*</sup>, J. O'Muircheartaigh<sup>2,3\*</sup>, H. Dirks<sup>4</sup>, D.C. Dean III<sup>5,6</sup>, N. Tottenham<sup>7</sup>, S. Deoni<sup>8</sup>

\*denotes equal contribution

1 Division of Developmental Medicine, Boston Children's Hospital, Harvard University, Boston

MA,02115, USA

2 Department of Forensic and Neurodevelopmental Sciences & Department of Neuroimaging,

Institute of Psychiatry, Psychology and Neuroscience, King's College London, London UK.

3 Centre for the Developing Brain, Department of Perinatal Imaging and Health,

School of Biomedical Engineering & Imaging Sciences, King's College London, London UK.

4 Advanced Baby Imaging Lab, Brown University School of Engineering, Providence, USA.

5 Waisman Center, University of Wisconsin-Madison, Madison WI, 53702, USA

6 Center for Healthy Minds, University of Wisconsin-Madison, Madison WI, 53702, USA

7 Department of Psychology, Columbia University, New York NY, 10027, USA

8 Department of Pediatrics, Warren Alpert Medical School, Brown University, Providence USA.

Address Correspondence to:

Dr. Jonathan O'Muircheartaigh

Department of Forensic and Neurodevelopmental Sciences,

Box PO50

De Crespigny Park

King's College London

London, England, UK SE5 8AF

Email: jonathonom@kcl.ac.uk

**Abstract** 

Although the amygdala's role in shaping social behavior is especially important during early post-natal

development, very little is known of amygdala functional development before childhood. To address

this gap, this study uses resting-state fMRI to examine early amygdalar functional network

development in a cross-sectional sample of 80 children from 3-months to 5-years of age. Whole brain

## Download English Version:

## https://daneshyari.com/en/article/8838209

Download Persian Version:

https://daneshyari.com/article/8838209

<u>Daneshyari.com</u>