

# Accepted Manuscript

Transferring the blues: Depression-associated gut microbiota induces neurobehavioural changes in the rat

John R. Kelly, Yuliya Borre, Ciaran O' Brien, Elaine Patterson, Sahar el Aidy, Jennifer Deane, Paul J. Kennedy, Sasja Beers, Karen Scott, Gerard Moloney, Alan E. Hoban, Lucinda Scott, Patrick Fitzgerald, Paul Ross, Catherine Stanton, Gerard Clarke, John F. Cryan, Timothy G. Dinan



PII: S0022-3956(16)30157-1

DOI: [10.1016/j.jpsychires.2016.07.019](https://doi.org/10.1016/j.jpsychires.2016.07.019)

Reference: PIAT 2915

To appear in: *Journal of Psychiatric Research*

Received Date: 27 April 2016

Revised Date: 1 July 2016

Accepted Date: 21 July 2016

Please cite this article as: Kelly JR, Borre Y, O' Brien C, Patterson E, el Aidy S, Deane J, Kennedy PJ, Beers S, Scott K, Moloney G, Hoban AE, Scott L, Fitzgerald P, Ross P, Stanton C, Clarke G, Cryan JF, Dinan TG, Transferring the blues: Depression-associated gut microbiota induces neurobehavioural changes in the rat, *Journal of Psychiatric Research* (2016), doi: 10.1016/j.jpsychires.2016.07.019.

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.

## Transferring the Blues: Depression-Associated Gut Microbiota Induces

### Neurobehavioural Changes in the Rat

John R. Kelly<sup>1,2</sup>, Yuliya Borre<sup>1</sup>, Ciaran O' Brien<sup>1,3</sup>, Elaine Patterson<sup>1,3</sup>, Sahar El Aidy<sup>1,4</sup>, Jennifer Deane<sup>3</sup>, Paul J. Kennedy<sup>1</sup>, Sasja Beers<sup>1</sup>, Karen Scott<sup>1</sup>, Gerard Moloney<sup>1</sup>, Alan E. Hoban<sup>1</sup>, Lucinda Scott<sup>2</sup>, Patrick Fitzgerald<sup>1</sup>, Paul Ross<sup>3</sup>, Catherine Stanton<sup>3</sup>, Gerard Clarke<sup>1,2</sup>, John F. Cryan<sup>1,5</sup>, Timothy G. Dinan<sup>1,2\*</sup>.

<sup>1</sup> APC Microbiome Institute, University College Cork, Cork, Ireland

<sup>2</sup> Department of Psychiatry and Neurobehavioural Science, University College Cork, Cork, Ireland

<sup>3</sup> Teagasc Food Research Centre, Moorepark, Fermoy, Cork, Ireland.

<sup>4</sup> Groningen Biomolecular Sciences and Biotechnology Institute, University of Groningen, Groningen, The Netherlands.

<sup>5</sup> Department of Anatomy and Neuroscience, University College Cork, Cork, Ireland

\*Corresponding author:

Timothy G. Dinan

Department of Psychiatry and Neurobehavioural Science,

Biosciences Institute,

University College Cork (UCC),

Cork,

Ireland

[t.dinan@ucc.ie](mailto:t.dinan@ucc.ie)

Download English Version:

<https://daneshyari.com/en/article/6799939>

Download Persian Version:

<https://daneshyari.com/article/6799939>

[Daneshyari.com](https://daneshyari.com)