Accepted Manuscript

Local inhibitory plasticity tunes macroscopic brain dynamics and allows the emergence of functional brain networks

Peter J. Hellyer, Barbara Jachs, Claudia Clopath, Robert Leech

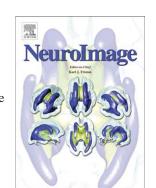
PII: \$1053-8119(15)00790-9

DOI: doi: 10.1016/j.neuroimage.2015.08.069

Reference: YNIMG 12550

To appear in: NeuroImage

Received date: 1 May 2015 Accepted date: 31 August 2015



Please cite this article as: Hellyer, Peter J., Jachs, Barbara, Clopath, Claudia, Leech, Robert, Local inhibitory plasticity tunes macroscopic brain dynamics and allows the emergence of functional brain networks, *NeuroImage* (2015), doi: 10.1016/j.neuroimage.2015.08.069

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.

ACCEPTED MANUSCRIPT

Local inhibitory plasticity tunes macroscopic brain dynamics and allows the emergence of functional brain networks

Authors: Peter J. Hellyer^{1,2}, Barbara Jachs¹, Claudia Clopath³*, Robert Leech¹*,

- Computational, Cognitive, and Clinical Neuroimaging Laboratory, Division of Brain Sciences, Faculty of Medicine, Imperial College London, Hammersmith Hospital, Du Cane Road, London, W12 ONN, UK
- 2. Centre for Neuroimaging Science, Institute of Psychiatry, Psychology and Neuroscience, Kings College London, De Crespigny Park, London, SE5 8AF
- 3. Department of Bioengineering, Imperial College London, Room B435, Bessemer Building, South Kensington Campus, SW7 2AZ
- * These authors contributed equally to the work presented in this report.

Corresponding Author(s): Dr. Robert Leech, Computational, Cognitive, and Clinical Neuroimaging Laboratory, Division of Brain Sciences, Faculty of Medicine, Imperial College London, Hammersmith Hospital, Du Cane Road, London, W12 0NN r.leech@imperial.ac.uk. & Dr. Claudia Clopath Department of Bioengineering, Imperial College London, Room B435, Bessemer Building, South Kensington Campus, SW7 2AZ c.clopath@imperial.ac.uk

Keywords: Homeostasis, plasticity, neural dynamics, intrinsic connectivity networks

Acknowledgements: The authors declare no competing financial interests. PJH is supported by a Sir Henry Wellcome Postdoctoral Fellowship from the Wellcome Trust. CC is funded by EPSRC, the Leverhulme Trust and a Google Faculty Award.

Download English Version:

https://daneshyari.com/en/article/6024247

Download Persian Version:

https://daneshyari.com/article/6024247

<u>Daneshyari.com</u>