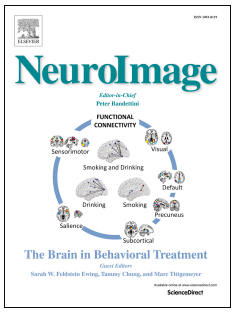
Accepted Manuscript



Handedness-dependent functional organizational patterns within the bilateral vestibular cortical network revealed by fMRI connectivity based parcellation

V. Kirsch, R. Boegle, D. Keeser, E. Kierig, B. Ertl-Wagner, T. Brandt, M. Dieterich

PII: S1053-8119(18)30416-6

DOI: 10.1016/j.neuroimage.2018.05.018

Reference: YNIMG 14943

To appear in: *NeuroImage*

Received Date: 13 March 2018

Revised Date: 2 May 2018

Accepted Date: 5 May 2018

Please cite this article as: Kirsch, V., Boegle, R., Keeser, D., Kierig, E., Ertl-Wagner, B., Brandt, T., Dieterich, M., Handedness-dependent functional organizational patterns within the bilateral vestibular cortical network revealed by fMRI connectivity based parcellation, *NeuroImage* (2018), doi: 10.1016/j.neuroimage.2018.05.018.

Handedness-dependent functional organizational patterns within the bilateral vestibular cortical network revealed by fMRI connectivity based parcellation

Kirsch V*[,1-3], R. Boegle*[,2,3], Keeser D[4,5], Kierig E[1,3], B. Ertl-Wagner[3,4,7], Brandt T[3,6], Dieterich M[1-3,7]

[1] Department of Neurology, Ludwig-Maximilians Universität, Munich, Germany

[2] Graduate School of Systemic Neuroscience, Ludwig-Maximilians Universität, Munich, Germany

[3] German Center for Vertigo and Balance Disorders-IFB[LMU], Ludwig-Maximilians Universität, Munich, Germany

[4] Department of Radiology, Ludwig-Maximilians Universität, Munich, Germany

[5] Department of Psychiatry, Ludwig-Maximilians Universität, Munich, Germany

[6] Clinical Neuroscience, Ludwig-Maximilians Universität, Munich, Germany

[7] Munich Cluster for Systems Neurology (SyNergy), Munich, Germany

* These authors contributed equally.

Word count, material: Number of pages 23 (excluding References, Figure Legends, List of Abbreviations)

Number of Figures 7

Number of Words (332 Abstract, 693 Introduction, 2004 Discussion)

Key words: vestibular cortical network, asymmetry, multisensory, hemisphere dominance, functional parcellation, lateralization