

# Accepted Manuscript

Tracting the neural basis of music: deficient structural connectivity underlying acquired amusia

Aleksi J. Sihvonen, Pablo Ripollés, Teppo Särkämö, Vera Leo, Antoni Rodríguez-Fornells, Jani Saunavaara, Riitta Parkkola, Seppo Soynila



PII: S0010-9452(17)30335-0

DOI: [10.1016/j.cortex.2017.09.028](https://doi.org/10.1016/j.cortex.2017.09.028)

Reference: CORTEX 2150

To appear in: *Cortex*

Received Date: 23 March 2017

Revised Date: 8 June 2017

Accepted Date: 29 September 2017

Please cite this article as: Sihvonen AJ, Ripollés P, Särkämö T, Leo V, Rodríguez-Fornells A, Saunavaara J, Parkkola R, Soynila S, Tracting the neural basis of music: deficient structural connectivity underlying acquired amusia, *CORTEX* (2017), doi: 10.1016/j.cortex.2017.09.028.

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.

1 **Tracting the neural basis of music: deficient structural**  
2 **connectivity underlying acquired amusia**

3 Running title: White matter changes in acquired amusia

4 Aleksi J. Sihvonen<sup>1,2\*</sup>, Pablo Ripollés<sup>3,4,5</sup>, Teppo Särkämö<sup>2</sup>, Vera Leo<sup>2</sup>, Antoni Rodríguez-  
5 Fornells<sup>3,4</sup>, Jani Saunavaara<sup>6</sup>, Riitta Parkkola<sup>7</sup>, and Seppo Soinila<sup>8</sup>.

6 <sup>1</sup>Faculty of Medicine, University of Turku, 20520 Turku, Finland

7 <sup>2</sup>Cognitive Brain Research Unit, Faculty of Medicine, University of Helsinki, 00014 Helsinki, Finland

8 <sup>3</sup>Cognition and Brain Plasticity Group, Bellvitge Biomedical Research Institute (IDIBELL),  
9 L'Hospitalet de Llobregat, 08907 Barcelona, Spain

10 <sup>4</sup>Department of Basic Psychology, University of Barcelona, 08035 Barcelona, Spain

11 <sup>5</sup>Poeppel Lab, Department of Psychology, New York University, 10003 NY, USA

12 <sup>6</sup>Department of Medical Physics, Turku University Hospital, 20521 Turku, Finland

13 <sup>7</sup>Department of Radiology, Turku University and Turku University Hospital, 20521 Turku, Finland

14 <sup>8</sup>Division of Clinical Neurosciences, Turku University Hospital and Department of Neurology,  
15 University of Turku, 20521, Turku, Finland.

16 \*Corresponding author:

17 Name: Dr. Aleksi J. Sihvonen

18 Address: Cognitive Brain Research Unit, Faculty of Medicine, University of Helsinki  
19 Siltavuorenpenger 1 B, FI-00014 University of Helsinki, Finland

20 Email: ajsihv@utu.fi

21 Phone: +358 40 5209 386

22

Download English Version:

<https://daneshyari.com/en/article/7312344>

Download Persian Version:

<https://daneshyari.com/article/7312344>

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