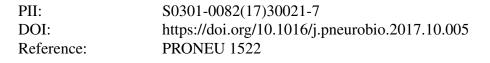
Accepted Manuscript

Title: Beyond the genome—towards an epigenetic understanding of handedness ontogenesis

Authors: Judith Schmitz, Gerlinde A.S. Metz, Onur Güntürkün, Sebastian Ocklenburg



To appear in: *Progress in Neurobiology*

 Received date:
 28-2-2017

 Revised date:
 18-9-2017

 Accepted date:
 26-10-2017

Please cite this article as: Schmitz, Judith, Metz, Gerlinde A.S., Güntürkün, Onur, Ocklenburg, Sebastian, Beyond the genome—towards an epigenetic understanding of handedness ontogenesis.Progress in Neurobiology https://doi.org/10.1016/j.pneurobio.2017.10.005

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

Beyond the genome - towards an epigenetic understanding of

handedness ontogenesis

Judith Schmitz¹, Gerlinde A. S. Metz², Onur Güntürkün^{1,3}, Sebastian Ocklenburg¹

¹: Institute of Cognitive Neuroscience, Department Biopsychology, Ruhr University Bochum, 44780 Bochum, Germany

²: Canadian Centre for Behavioural Neuroscience, Department of Neuroscience, 4401 University Drive, Lethbridge, Alberta, Canada.

³: Stellenbosch Institute for Advanced Study (STIAS), Wallenberg Research Centre at Stellenbosch University, Stellenbosch 7600, South Africa

Short title for headings: Environmental influences

Corresponding Author:

Judith Schmitz

Telephone Number: +49 234 32 21775

E-Mail: judith.schmitz@rub.de

Number of words: 12,898

Table of Contents

| 1. Introduction | 5 |
|--|---------|
| 1.1. (The missing) heritability of handedness | 5 |
| 1.2. Epigenetic mechanisms in neuroscience | |
| 1.3. Implications of handedness in neurodevelopmental and psychiatric disord | lers 10 |
| 1.4. The idea of pathological left-handedness | |
| 2. Environmental factors influencing handedness | 14 |
| 2.1. Seasonal anisotropy in handedness | |

Download English Version:

https://daneshyari.com/en/article/8842205

Download Persian Version:

https://daneshyari.com/article/8842205

Daneshyari.com