

Accepted Manuscript

The choroid plexus epithelium as a novel player in the stomach-brain axis during *Helicobacter* infection

N. Gorlé, C. Blaecher, E. Bauwens, C. Vandendriessche, S. Balusu, J. Vandewalle, C. Van Cauwenberghe, E. Van Wonterghem, G. Van Imschoot, C. Liu, R. Ducatelle, C. Libert, F. Haesebrouck, A. Smet, R.E. Vandenbroucke

PII: S0889-1591(17)30550-0
DOI: <https://doi.org/10.1016/j.bbi.2017.12.010>
Reference: YBRBI 3304

To appear in: *Brain, Behavior, and Immunity*

Received Date: 10 July 2017
Revised Date: 11 December 2017
Accepted Date: 15 December 2017

Please cite this article as: Gorlé, N., Blaecher, C., Bauwens, E., Vandendriessche, C., Balusu, S., Vandewalle, J., Van Cauwenberghe, C., Van Wonterghem, E., Van Imschoot, G., Liu, C., Ducatelle, R., Libert, C., Haesebrouck, F., Smet, A., Vandenbroucke, R.E., The choroid plexus epithelium as a novel player in the stomach-brain axis during *Helicobacter* infection, *Brain, Behavior, and Immunity* (2017), doi: <https://doi.org/10.1016/j.bbi.2017.12.010>

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.



The choroid plexus epithelium as a novel player in the stomach-brain axis during *Helicobacter* infection

Gorlé N^{1,2,§}, Blaecher C^{3,§}, Bauwens E^{3,§}, Vandendriessche C^{1,2}, Balusu S^{1,2}, Vandewalle J^{1,2}, Van Cauwenberghe C^{1,2}, Van Wonterghem E^{1,2}, Van Imschoot G^{1,2}, Liu C³, Ducatelle R³, Libert C^{1,2}, Haesebrouck F^{3,#}, Smet A^{3,4,#} and Vandenbroucke RE^{1,2,#,*}

¹VIB Center for Inflammation Research, VIB, B-9052 Ghent, Belgium

²Department of Biomedical Molecular Biology, Ghent University, B-9052 Ghent, Belgium

³Department of Pathology, Bacteriology and Avian Diseases, Ghent University, B-9820 Merelbeke, Belgium

⁴Laboratory of Experimental Medicine and Pediatrics, Faculty of Medicine and Health Sciences, University of Antwerp, B-2610 Antwerp, Belgium

^{§,#}Equal contribution

*Corresponding author:

Prof. Dr. Roosmarijn Vandenbroucke

VIB – Ghent University

FSVM Building

Technologiepark 927

B-9052 Zwijnaarde (Ghent)

Belgium.

Tel: +32-9-3313703

Fax: +32-9-3313609

E-mail address: Roosmarijn.Vandenbroucke@irc.VIB-UGent.be

Key words: *Helicobacter*, stomach-brain axis, gut-brain axis, choroid plexus, blood-brain barrier

Acknowledgments

Declaration of funding interests: This work was supported by the Research Fund of Ghent University, Belgium (1G01014 and 01I00714) and by the Research Foundation Flanders (FWO Vlaanderen). The authors thank Sofie De Bruyckere for her excellent technical assistance and the VIB Bio Imaging Core for suggestions concerning immunohistochemistry and imaging.

Authors contribution

R.E.V., F.H. and A.S. were joint principal investigators. N.G., C.B. and E.B. contributed equally. N.G., C.B., E.V., S.B., J.V., C.V., C.V.C., E.V.W., G.V.I., R.E.V. and C.L. performed the laboratory work. N.G., C.B., A.S. and R.E.V. collected and analysed the data. R.D., Cl.L. and F.H. advised on parts of the study. N.G., C.B., A.S. and R.E.V. wrote the paper. N.G., C.B., R.D., Cl.L., F.H., A.S. and R.E.V. reviewed the manuscript.

Conflict of Interest

The authors declare no competing financial interests.

Download English Version:

<https://daneshyari.com/en/article/7279351>

Download Persian Version:

<https://daneshyari.com/article/7279351>

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