

Accepted Manuscript

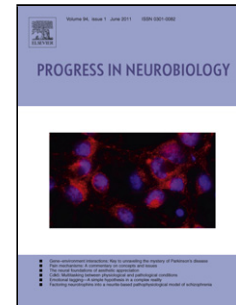
Title: Role of cellular prion protein in interneuronal amyloid transmission

Authors: José A. del Río, Isidre Ferrer, Rosalina Gavín

PII: S0301-0082(17)30083-7
DOI: <https://doi.org/10.1016/j.pneurobio.2018.03.001>
Reference: PRONEU 1540

To appear in: *Progress in Neurobiology*

Received date: 26-5-2017
Revised date: 8-1-2018
Accepted date: 4-3-2018



Please cite this article as: del Río, José A., Ferrer, Isidre, Gavín, Rosalina, Role of cellular prion protein in interneuronal amyloid transmission. *Progress in Neurobiology* <https://doi.org/10.1016/j.pneurobio.2018.03.001>

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.

Title: Role of cellular prion protein in interneuronal amyloid transmission.

Authors: José A. del Río^{1,2,3,4, ¶}, Isidre Ferrer^{3,4,5,6, ¶}, Rosalina Gavín^{1,2,3,4}.

Affiliations:

[1] Molecular and Cellular Neurobiotechnology, Institute for Bioengineering of Catalonia (IBEC), The Barcelona Institute of Science and Technology, Barcelona, Spain.

[2] Department of Cell Biology, Physiology and Immunology, University of Barcelona, Barcelona, Spain.

[3] Center for Networked Biomedical Research on Neurodegenerative Diseases (CIBERNED), Barcelona, Spain.

[4] Institute of Neuroscience, University of Barcelona, Barcelona, Spain.

[5] Department of Pathology and Experimental Therapeutics, University of Barcelona, Hospitalet de Llobregat, Spain.

[6] Senior Consultant Neuropathology, Service of Pathology, Bellvitge University Hospital, Hospitalet de Llobregat, Spain

¶ Corresponding authors:

Prof. José Antonio del Río. Molecular and Cellular Neurobiotechnology, Institute for Bioengineering of Catalonia (IBEC). The Barcelona Institute of Science and Technology, Baldiri Reixac 15-21, E-08028. Barcelona, Spain. Phone: (+34) 93 402 0296. Fax: (+34) 93 402 0183
email (1): jadelrio@ibecbarcelona.eu
email (2): jadelrio@ub.edu

Prof. Isidre Ferrer. Department of Pathology and Experimental Therapeutics, University of Barcelona, Feixa Llarga sn, E-08907 Hospitalet de Llobregat, Spain. Phone: (+34) 93 260 7452; Fax: (+34) 93 260 7503.
email: 8082ifa@gmail.com

Highlights

- PrP^C can bind to different amyloid (β -sheet-rich) proteins.
- Amyloid-interacting PrP^C domains comprise two charged cluster domains (CC1 and 2).
- PrP^C participates in the expansion of amyloid (at least α -synuclein) deposits in wild-type mice.

Download English Version:

<https://daneshyari.com/en/article/8842174>

Download Persian Version:

<https://daneshyari.com/article/8842174>

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