Effects of long-lasting social isolation and re-socialization on cognitive performance and brain activity: a longitudinal study in *Octodon degus*

Daniela S. Rivera, Carolina B. Lindsay, Carolina A. Oliva, Juan Francisco Codocedo, Francisco Bozinovic and Nibaldo C. Inestrosa

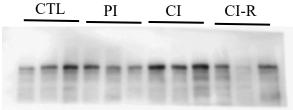
Here we show the original images of the western blots used and analyzed in our study. Each image is labeled in the upper-side: Brain region, animal's sex and targeted protein. Each well corresponds to an individual animal sample, and three animals were used per treatment: Well 1-3=CTL, Well 4-6=PI, Well 7-9=CI and Well 10-12=CI-R.

Methods: In our experimental design, once we have transfered the gel to the PDVF membrane, we proceed to separate the membrane in two pieces by an horizontal cut through the 70kDa marker to perform a better and efficient use of the samples and antibodies supplies (except when the targeted protein weight is about 70kDa). Thus, all blot images show the upper (for >70 kDa proteins) or the bottom (for <70 kDa proteins) part of the transfered membrane.

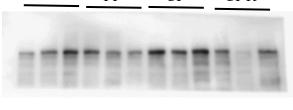
Images were taken using a UPV Chemidoc-it Imaging System from Thermo Fisher Scientific.

(*) In these cases, the image showed here corresponds to a crop from the original western blot image, taken using a film-depending imaging system. Due to the COVID19-quarentine, we are not able to access to the original film or the computarized-whole scan. We apologize for this.

Hypothalamus Females NR2B

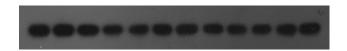


Hypothalamus Females PSD95*

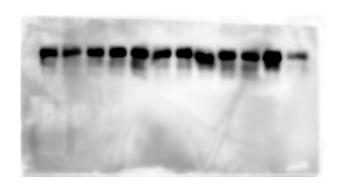




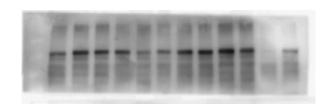
Hypothalamus Females SYP*



Hypothalamus Females Total GSK3 β



Hypothalamus Males NR2B



Hypothalamus Males PSD95



Hypothalamus Males SYP*

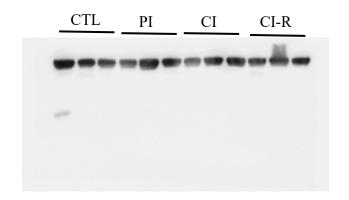


Hypothalamus Males Total GSK3β

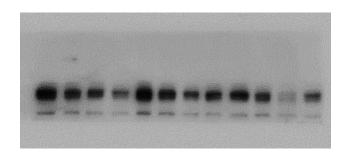


Hypothalamus Females Total β-catenin Hypothalamus Males Total βcatenin Hypothalamus Males β-actin* Hypothalamus Females β-actin* Hypothalamus Males pY216-GSK3β Hypothalamus Females pY216-GSK3β Hypothalamus Females pS9-GSK3β Hypothalamus Males pS9-GSK3β

Hyppocampus Females actin



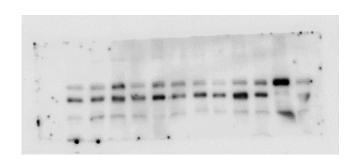
Hyppocampus Females PSD95



Hyppocampus Females SYP



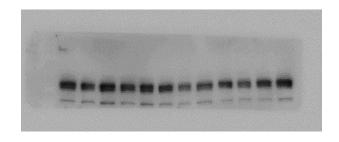
Hyppocampus Females NR2B



Hyppocampus Males actin



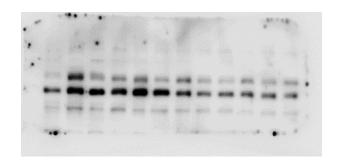
Hyppocampus Males PSD95



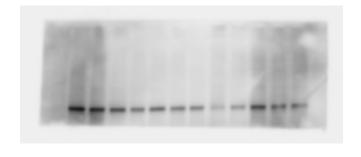
Hyppocampus Males SYP



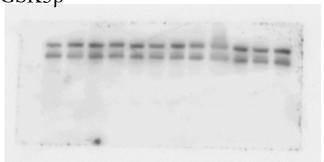
Hyppocampus Males NR2B male



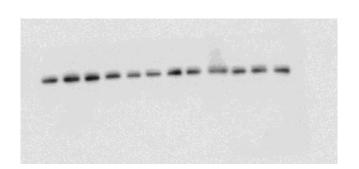
Hyppocampus Females Total β-catenin



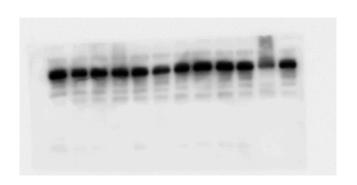
Hyppocampus Females pY216-GSK3 β



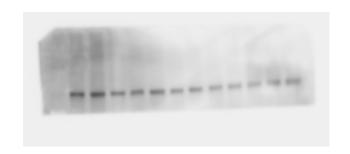
Hyppocampus Females pS9-GSK3 β



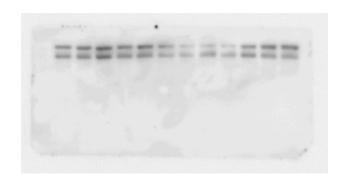
Hyppocampus Females Total GSK3 β



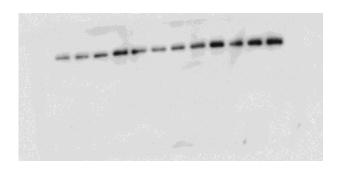
Hyppocampus Males Total β-catenin



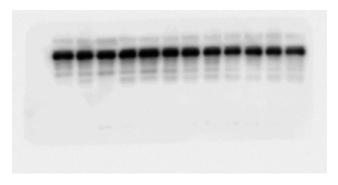
Hyppocampus Males pY216-GSK3β



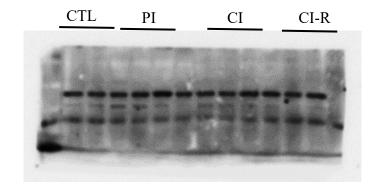
Hyppocampus Males pS9-GSK3β



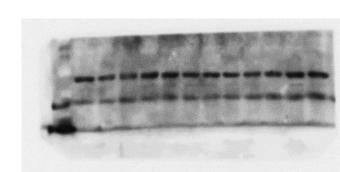
Hyppocampus Males Total GSK3β



Prefrontal Cortex Female GAPDH

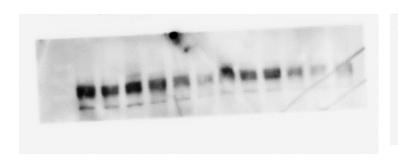


Prefrontal Cortex Female PSD95



Prefrontal Cortex Male GAPDH

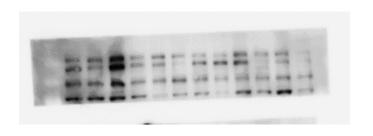
Prefrontal Cortex Male PSD95



Prefrontal Cortex Female SYP



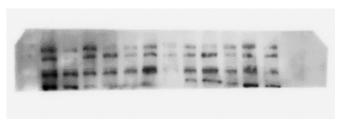
Prefrontal Cortex Female NR2B



Prefrontal Cortex Male SYP



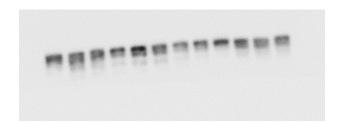
Prefrontal Cortex Male NR2B



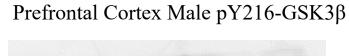
Prefrontal Cortex Female Total β-catenin

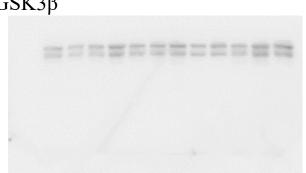
Prefrontal Cortex Male Total β-catenin

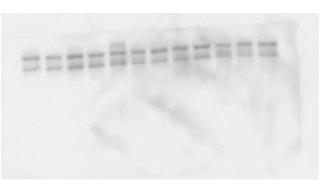




Prefrontal Cortex Female pY216-GSK3 β

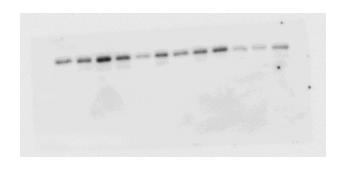


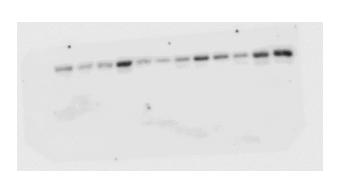




Prefrontal Cortex Female pS9-GSK3 β

Prefrontal Cortex Male pS9-GSK3 β





Prefrontal Cortex Female Total GSK3β

Prefrontal Cortex Male Total GSK38

