

Online resource

Molecular Neurobiology

A regulatory circuitry between Gria2, miR-409 and miR-495 is affected by ALS FUS mutation in ESC-derived motor neurons

Davide Capauto^{1,2}, Alessio Colantoni², Lei Lu³, Tiziana Santini¹, Giovanna Peruzzi¹, Silvia Biscarini^{1,2}, Mariangela Morlando², Neil A. Shneider³, Elisa Caffarelli⁴, Pietro Laneve^{1,*}, Irene Bozzoni^{1,2,4,5,*}.

1. Center for Life Nano Science@Sapienza, Istituto Italiano di Tecnologia, Rome, Italy.
2. Department of Biology and Biotechnology, Sapienza University of Rome, Italy.
3. Department of Neurology, Center for Motor Neuron Biology and Disease, Columbia University, New York City, NY, USA.
4. Institute of Molecular Biology and Pathology, CNR, Rome, Italy.
5. Institute Pasteur Fondazione Cenci-Bolognetti, Sapienza University of Rome, Italy.

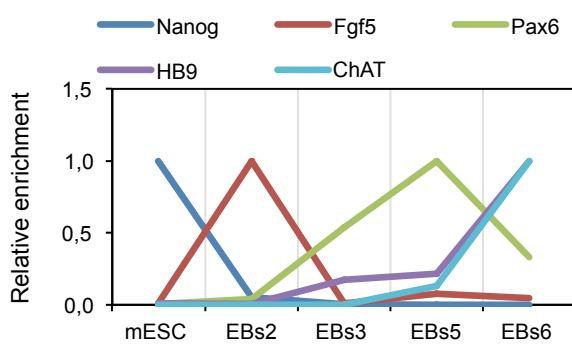
* Corresponding authors:

e-mail: irene.bozzoni@uniroma1.it ; pietro.laneve@iit.it

Supplementary Figure S1

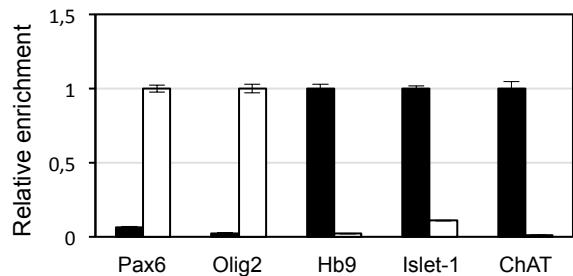
a

FUS^{WT}



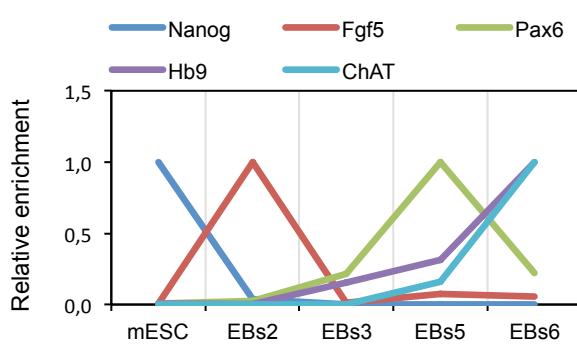
b

■ FUS^{WT} GFP(+) □ FUS^{WT} GFP(-)



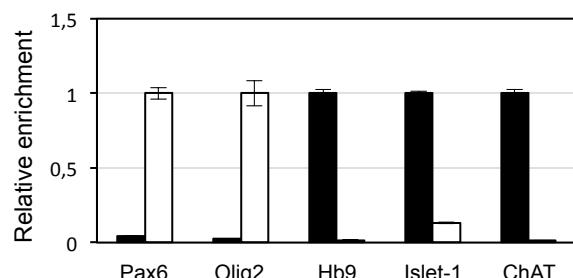
c

FUS^{KO}

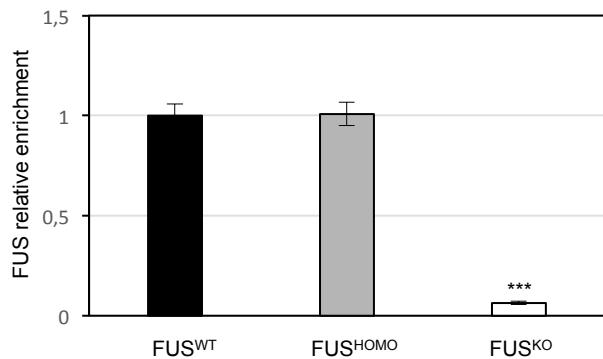


d

■ FUS^{KO} GFP(+) □ FUS^{KO} GFP(-)

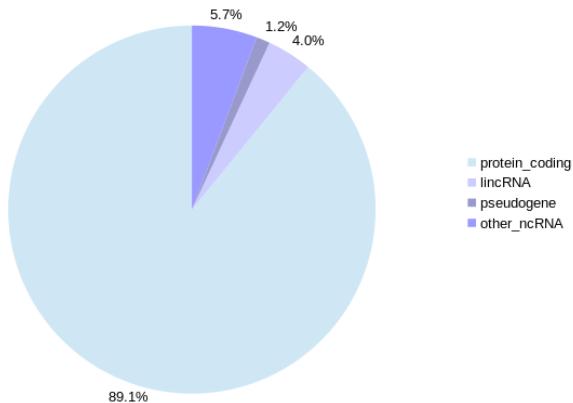


Supplementary Figure S2

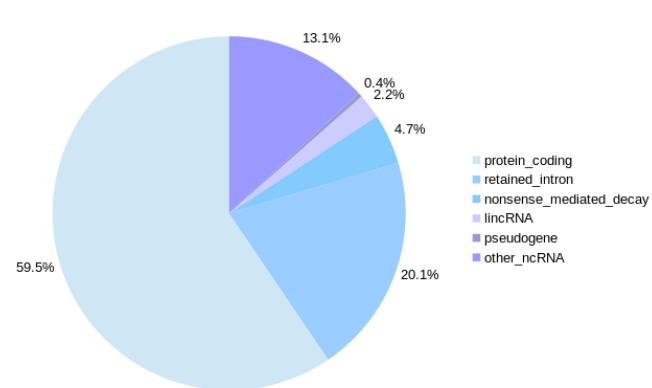


Supplementary Figure S3

Biotype of expressed genes

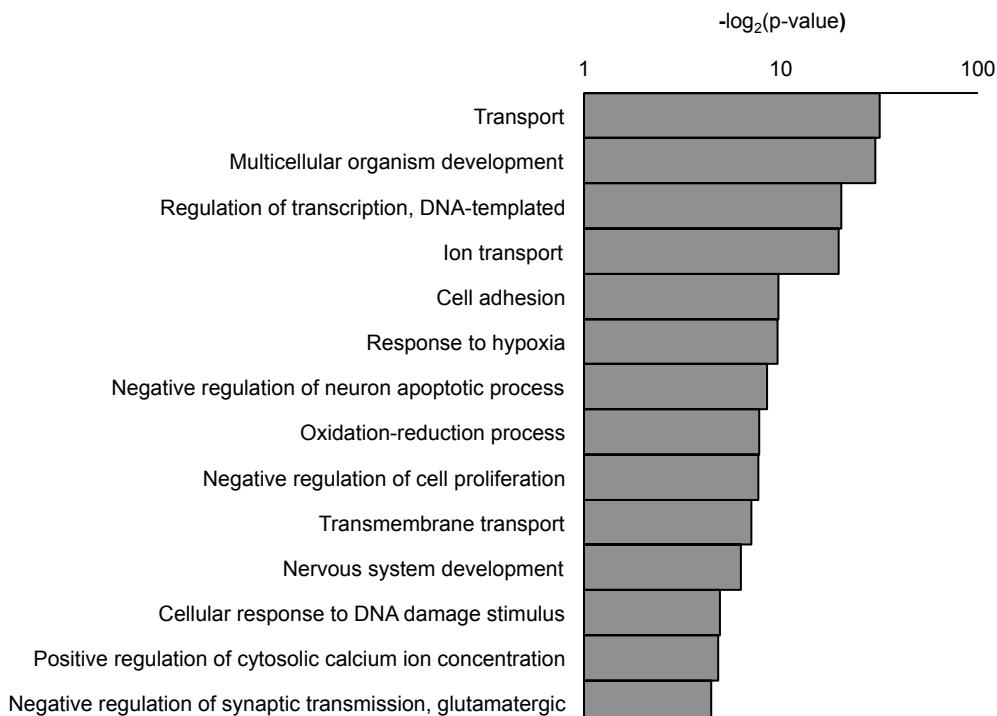


Biotype of expressed transcripts

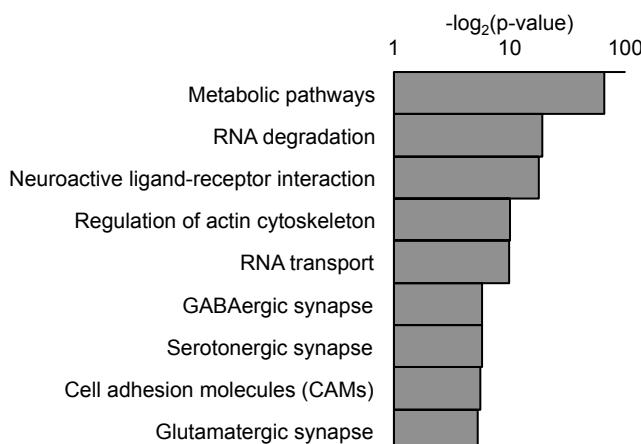


Supplementary Figure S4

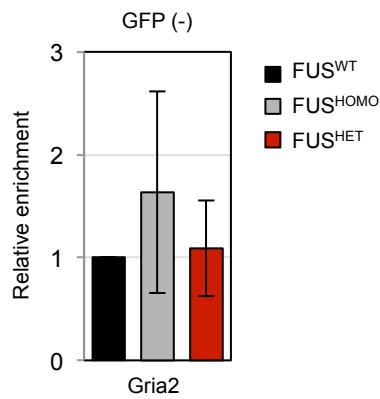
Biological process



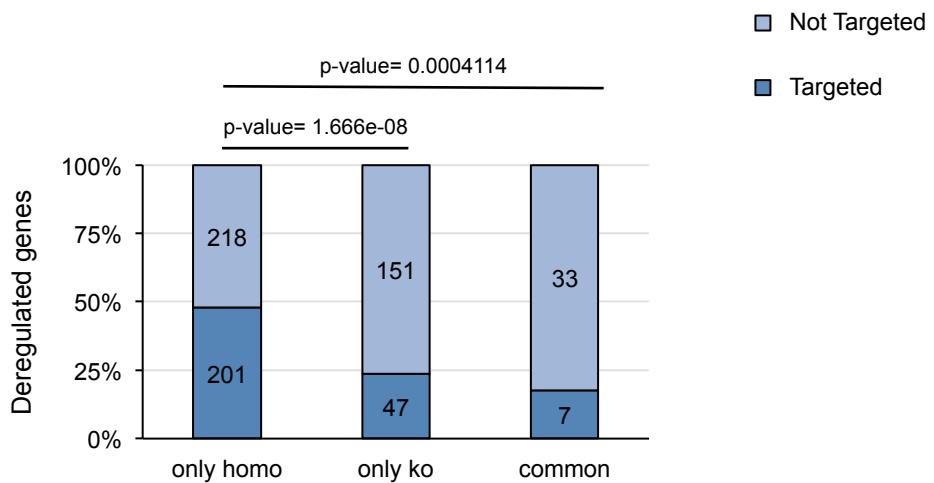
Kegg pathways



Supplementary Figure S5



Supplementary Figure S6



Supplementary Figure S7

