

Accepted Manuscript

A genome-wide pathway enrichment analysis identifies brain region related biological pathways associated with intelligence

Yanan Du , Yujie Ning , Yan Wen , Li Liu , Xiao Liang , Ping Li , Miao Ding , Yan Zhao , Bolun Cheng , Mei Ma , Lu Zhang , Shiqiang Cheng , Wenxing Yu , Shouye Hu , Xiong Guo , Feng Zhang

PII: S0165-1781(18)30334-2
DOI: [10.1016/j.psychres.2018.07.029](https://doi.org/10.1016/j.psychres.2018.07.029)
Reference: PSY 11578

To appear in: *Psychiatry Research*

Received date: 21 February 2018
Revised date: 31 May 2018
Accepted date: 17 July 2018

Please cite this article as: Yanan Du , Yujie Ning , Yan Wen , Li Liu , Xiao Liang , Ping Li , Miao Ding , Yan Zhao , Bolun Cheng , Mei Ma , Lu Zhang , Shiqiang Cheng , Wenxing Yu , Shouye Hu , Xiong Guo , Feng Zhang , A genome-wide pathway enrichment analysis identifies brain region related biological pathways associated with intelligence, *Psychiatry Research* (2018), doi: [10.1016/j.psychres.2018.07.029](https://doi.org/10.1016/j.psychres.2018.07.029)

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.



Highlights

- We detected multiple biological pathways showing cross brain regions or brain region specific association signals for human intelligence. For instance, KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS pathway presented association signals for intelligence across 8 brain regions (all P value < 0.01). KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_GANGLIO_SERIES was detected for 5 brain regions. We also identified several brain region specific pathways, such as AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM for Germinal Matrix (P value = 0.009) and FRUCTOSE_AND_MANNANOSE_METABOLISM for Anterior Caudate (P value = 0.005).

Download English Version:

<https://daneshyari.com/en/article/6811296>

Download Persian Version:

<https://daneshyari.com/article/6811296>

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