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Name of Journal: *World Journal of Psychiatry*

Manuscript NO: 54331

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Identification of key genes involved in post-traumatic stress disorder: Evidence from bioinformatics analysis

Bian YY *et al.* Identification of key genes in post-traumatic stress disorder

Yao-Yao Bian, Li-Li Yang, Bin Zhang, Wen Li, Zhengjun Li, Wen-Lin Li, Li Zeng

Identification of key genes involved in post-traumatic stress disorder



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Identification of Key Genes and Pathways in Post-traumatic ...

<https://pubmed.ncbi.nlm.nih.gov/30873067>

Conclusion:By using bioinformatics analysis, we **identified** a number of **genes** and relevant pathway which may represent **key mechanisms** associated with **PTSD**. However, these findings require **verification** in future experimental studies.

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6403462>

Co-occurrence analysis of the literature was performed using "**post-traumatic stress disorder**," "**Wnt signaling Pathway**," and "**gene symbols**" as search terms. **Eight genes** (GRM2, CYP1A2, CDH5, SF1, EDN3, SYT1, CAB39L, and NLGN1) were **identified** in the text-mining searches, as shown in Figure 5 .

Cited by: 3

Author: Yaoyao Bian, Lili Yang, Min Zhao, Zheng...

Publish Year: 2019

Frontiers | Identification of Key Genes and the ...

<https://www.frontiersin.org/articles/10.3389/fpsy.2020.00192> ▼

Co-downregulated genes were mainly **involved** in the neutrophil activation which in turn was **involved** in the immune response, degranulation and cell-mediated immunity, positive regulation of immune response, the Toll-like receptor signaling pathway, and the NOD-like receptor signaling pathway. From the PPI network, 14 **hub genes** were obtained.

Author: Guangyin Zhang, Guangyin Zhang, ...

Publish Year: 2020

[PDF] Identification of the Key Genes Involved in Posttraumatic ...

<https://precisionmedicine.duke.edu/sites/precisionmedicine.duke.edu/files/field/...>

Identification of the Key Genes Involved in Posttraumatic Stress Disorder: Evidence from Human Blood and Postmortem Tissue Studies Douglas E. Williamson, Ph.D. Department of Psychiatry and Behavioral Sciences Center for Applied Genomics and Precision Medicine Duke University Durham VA Medical Center

Identification of Key Genes and Pathways in Post-traumatic ...

<https://pubmed.ncbi.nlm.nih.gov/30873067>

Hence, the purpose of this study was to **identify key genes** and **pathway involved** in **PTSD** and reveal underlying molecular mechanisms by using bioinformatics analysis. Methods: The mRNA microarray expression profile dataset was retrieved and downloaded from the **Gene Expression Omnibus** (GEO) database. The **differentially expressed genes** (DEGs) were screened using GEO2R.

Identification of Key Genes and Pathways in Post-traumatic ...

<https://www.frontiersin.org/articles/10.3389/fpsyg.2019.00302/full> ▼

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Identification of Key Genes and Pathways in Post-traumatic ...

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Feb 27, 2019 · These **genes** were further verified by qRT-PCR. In addition, text mining indicated that the altered CYP1A2, SYT1, and NLGN1 affecting **PTSD** might work via the Wnt signaling pathway. Conclusion: By using bioinformatics analysis, we **identified** a number of **genes** and relevant pathway which may represent **key** mechanisms associated with **PTSD**.

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Author: Guangyin Zhang, Guangyin Zhang, S...**Publish Year:** 2020