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Name of Journal: World Journal of Clinical Cases

Manuscript NO: 64575

Manuscript Type: MINIREVIEWS

Gene × Environment Interaction in Major Depressive Disorder

Ming-Zhe Zhao, Xu-Sheng Song, Jing-Song Ma

### Abstract

Major depressive disorder (MDD) is a multifactorial disorder, where multiple susceptibility genes interact with environmental factors, predisposing individuals to the development of the illness. In this article, we reviewed different genexenvironment













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# [PDF] Gene—Environment Interactions in Major Depressive ... https://journals.sagepub.com/doi/pdf/10.1177/070674371305800203

Gene-environment interactions might define biologically distinct subgroups of depression, possibly
explaining the variability in response to antidepressant treatments.
 Understanding the systemic and
molecular mechanisms underlying the gene-environment interactions may help to ...

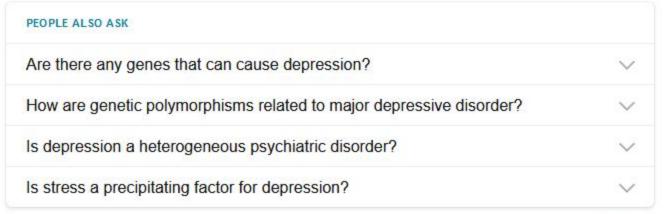
## Gene-Environment Interaction in Major Depression: Focus ...

https://www.frontiersin.org/articles/10.3389/fpsyt.2015.00068 •

Gene-Environment Interaction in Major Depression Gene-environment interactions reflect a causal mechanism where one or more genetic variants and one or more environmental factors contribute to the causation of a condition in the same individual with genetic factors influencing the sensitivity to environmental exposures (50).

Cited by: 101 Author: Nicola Lopizzo, Luisella Bocchio Chiavett...

Publish Year: 2015



Feedback

## Gene—Environment Interactions in Major Depressive ... https://journals.sagepub.com/doi/10.1177/070674371305800203

Feb 01, 2013 · Abstract Family, twin, and epidemiologic studies have suggested that both genes and environment are important risk factors for the development of major depressive disorder (MDD). In the absence of consistent and strong main genetic effects, numerous studies have supported geneenvironment interactions in this disorder.

Cited by: 108 Author: Torsten Klengel, Elisabeth B. Binder

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Gene × environment interaction in major depressive disorder









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Major depressive disorder (MDD) is a multifactorial and polygenic disorder, where multiple and partially overlapping sets of susceptibility genes interact each other and with the environment, predisposing individuals to the development of the illness.

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Li et et (121)	ION	mina	Reverse restronship between the securi SCAF levels and the rish 132 milk 152 levels in depression
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Major depressive disorder (MDD) is a multifactorial and polygenic disorder, where multiple and partially overlapping sets of susceptibility genes interact each other and with the environment, predisposing individuals to the development of the illness.

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Conclusion



Gene-environment interactions reflect a causal mechanism where one or more genetic variants and one or more environmental factors contribute to the causation of a condition in the same individual with genetic factors influencing the sensitivity to environmental exposures (50). A number of environmental factors have been found to contribute to depression vulnerability, including in utero exposure to infection, lack of nutrients, maternal stress, perinatal complications, social disadvantage, urban upbringing, ethni...

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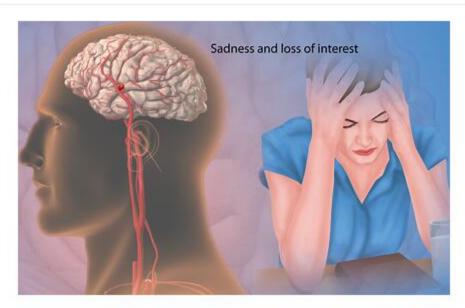
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## Major Depressive Disorder

Medical Condition



Mental health disorder having episodes of psychological depression.

- Very common (More than 3 million cases per year in US)
- Doesn't require lab test or imaging
- Treatable by a medical professional
- Can be lifelong

Caused by genetic, environmental and psychological factors. Symptoms include feelings of sadness, low esteem, hopelessness. Psychotherapy and medications can help overcome the condition. Risk of self-harm or suicidal thoughts or actions make major depressive disorder a life-threatening condition.

### Symptoms

Symptoms include:

- · Feelings of sadness
- Feelings of hopelessness
- · Loss of interest/Lack of pleasure
- · Short temper
- Irritation
- Tiredness
- Memory Loss