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Novel approaches in schizophrenia - from risk factors and hypothe: [Icons]

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[New approaches to the management of schizophrenia: focus ...](#)
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4085299>

Introduction. **Schizophrenia** is a severe psychiatric disorder for which there is currently no cure. Affecting approximately 1% of the population, 1,2 schizophrenia is believed to be a developmental disorder with symptoms typically appearing during adolescence and early adulthood.3 There are three major symptom clusters associated with this disease: positive (psychosis, disorganized thinking and ...

Cited by: 19 Author: Stephanie M Perez, Daniel J Lodge
Publish Year: 2014

(PDF) Novel approaches to drug design for the treatment of ...
<https://www.researchgate.net/publication/250307551...>

Schizophrenia

Medical Condition

A mental disorder characterized by delusions, hallucinations, disorganized speech and behavior.

- Very common (More than 3 million cases per year in US)
- Often requires lab test or imaging
- Treatment from medical professional advised

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Keeping up with the therapeutic advances in schizophrenia ...

<https://www.cambridge.org/core/journals/cns> · Sep 04, 2019 · Methods. We conducted a selective review of (i) different pharmacological drug targets for the treatment of total, negative, and cognitive, as well as residual or resistant positive symptoms of schizophrenia, (ii) new FDA-approved and investigated LAIs, ...
Cited by: 21 Author: Amanda Kroegmann, Luisa Peters, Laura vo...
Publish Year: 2019

Developing New Drugs for Schizophrenia: From Animals to ...

<https://www.sciencedirect.com/science/article/pii/S09780123738615000084>
Jan 01, 2008 · A better understanding of the neurobiology of schizophrenia will allow a conversion to a "bottom up" approach in drug discovery, that is, identify novel drug targets that are more closely associated with the underlying neuropathology (i.e., novel target identification and validation), design drugs to act at these targets and then test these drugs in clinical trials 73 (Figure 8-1).
Cited by: 24 Author: Declan N.C. Jones, Jane E. Gartlon, Arpi M...
Publish Year: 2008

PEOPLE ALSO ASK

- Are there any new pharmacological treatments for schizophrenia? ▾
- Which is the most effective treatment for schizophrenia? ▾
- What is the updated glutamate hypothesis of schizophrenia? ▾
- What is the core pathophysiology of schizophrenia? ▾

Feedback

Translating Human Genetics into Novel Treatment Targets ...

<https://www.sciencedirect.com/science/article/pii/S089662731400957X>
Nov 05, 2014 · After expert review of each target, which included a host of factors relevant for drug discovery to develop initial therapeutic hypotheses, five genes were shortlisted for further follow-up. Exploratory studies are currently under way for the three targets that emerged from this locus-to-target triaging approach with highest confidence.
Cited by: 22 Author: Christian R. Schubert, Hualin S. Xi, Jens R...
Publish Year: 2014

Innovative solutions to novel drug development in mental ...

<https://www.sciencedirect.com/science/article/pii/S0149763413000821>
Dec 01, 2013 · New approaches to identifying and validating potential drug targets are essential. A novel drug toolbox and innovative private-public partnerships are required. We need new approaches to identify risk factors or prodromal signs early enough in the course of illness to intervene before a disorder becomes a disability. Neurocognitive...
Cited by: 110 Author: T.R. Insel, V. Voon, J.S. Nye, V.J. Brown, B...
Publish Year: 2013

Glutamate in schizophrenia: Neurodevelopmental ...

<https://www.sciencedirect.com/science/article/pii/S0920996420304710>
Sep 01, 2020 · 1. Introduction. The glutamate hypothesis of schizophrenia, as proposed in the 1990s (Lavitt and Zukin, 1991), was based on observations that antagonists of the N-methyl-D-aspartate glutamate receptors (NMDAR), such as phencyclidine (PCP) and ketamine, mimic positive, negative, and cognitive symptoms in healthy volunteers and exacerbate these symptoms in patients with...
Author: Alice Egerton, Anthony A. Grace, James... Publish Year: 2020

Potential drug targets and treatment of schizophrenia ...

<https://link.springer.com/article/10.1007/s10787-017-0340-5>
Mar 28, 2017 · Schizophrenia is a complex, chronic and prevalent psychiatric problem that strikes roughly 1% of the total world's inhabitant (Godar and Bortolato 2014). It is the ninth leading cause of disability (Vyas et al. 2011). Risk of developing schizophrenia is approximately equal in males and females, but gender differences do exist at the onset of the disease (Riecher-Rossler and Hafner 2000).

Drug discovery strategies that focus on the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4696509>
1. Introduction. Cannabis sativa, or marijuana, is one of the most widely used illicit drugs, known to promote relaxation, euphoria, and a feeling of contentment [1–3]. Chronic use, however, can be accompanied by dysphoria, depressive mood, and increased anxiety [4] with the severity of symptoms being exacerbated by exposure to greater concentrations and increased frequency of usage [5].

Neurobiology of Depression | ScienceDirect

<https://www.sciencedirect.com/book/9780128133330>
Neurobiology of Depression: Road to Novel Therapeutics synthesizes the basic neurobiology of major depressive disorder with discussions on the most recent advances in research, including the interacting pathways implicated in the pathophysiology of MDD, omics technologies, genetic approaches, and the development of novel optogenetic approaches...

Overcoming immunotherapy resistance in non-small cell lung ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7488475>
Sep 11, 2020 · This review discusses the multitude of novel preclinical and clinical treatment approaches that aim to overcome IO resistance in NSCLC. The complexity of cellular and molecular alterations within the immunosuppressive TME build the fundament for designing rational and synergistic combination therapies that lower the risk of resistance and...

Schizophrenia

Medical Condition



A mental disorder characterized by delusions, hallucinations, disorganized thoughts, speech and behavior.

- Very common (More than 3 million cases per year in US)
- Often requires lab test or imaging
- Treatable by a medical professional
- Can be lifelong

The actual causes of schizophrenia are not fully understood. The causes may include genetic and environmental factors. The symptoms of schizophrenia may vary depending on the individual and it usually includes delusions, hallucinations and thought disturbances. The treatment includes medications and psychotherapy.

Symptoms

The symptoms of Schizophrenia may vary depending on the individual and they usually include:

- Delusion
- Hallucinations and illusions
- Disordered thinking
- Disordered behavior
- Flat affect- lack of emotional expression
- Agitation
- Inappropriate reactions
- Phobia
- Lack of pleasure or interest in activities
- Lack of motivation to do anything
- Decreased speech output

Treatments

The treatment includes medications and psychotherapy.

Medication

- Antipsychotics: Drugs which are used for treating symptoms of psychosis such as hallucinations, delusions and disordered thinking
Olanzapine · Arripiprazole · Paliperidone · Bionanserin · Risperidone · Quetiapine · Haloperidol · Flupenthixol · Zuclophenacol · Clozapine

Therapies: Psychotherapy · Electroconvulsive therapy (ECT) · Family counseling

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Name of Journal: *World Journal of Psychiatry*

Manuscript NO: 64860

Manuscript Type: REVIEW

Novel approaches in schizophrenia-from risk factors and hypotheses to novel drug targets

Luptak M *et al.* Novel approaches in schizophrenia

Matej Lupták, Danica Michaličková, Zdeněk Fišar, Eva Kitzlerová, Jana Hroudová

Abstract

Schizophrenia is a severe psychiatric disorder characterized by emotional, behavioral and cognitive disturbances, and the treatment of schizophrenia is often complicated by noncompliance and pharmacoresistance. The search for the pathophysiological mechanisms underlying schizophrenia has resulted in the proposal of several hypotheses to explain the impacts of environmental, genetic, neurodevelopmental,

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[Current Concepts and Treatments of Schizophrenia](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6222385>

Aug 20, 2018 · Although current concept and treatment of schizophrenia are still based on the dopaminergic hypothesis of the disease, novel approaches involving new signaling mechanisms on...

Cited by: 100 Author: Piotr Stępnicki, Magda Kondej, Agnieszka...

Publish Year: 2018

[Keeping up with the therapeutic advances in schizophrenia ...](#)

<https://www.cambridge.org/core/journals/cns...>

Sep 04, 2019 · Furthermore, as at least positive symptoms in schizophrenia have primarily been associated with dopamine dysfunction, all currently available effective antipsychotics have dopamine D...

Cited by: 22 Author: Amanda Krogmann, Luisa Peters, Laura v...

Publish Year: 2019

PEOPLE ALSO ASK

Are there any new pharmacological treatments for schizophrenia? ▾

Which is the most effective treatment for schizophrenia? ▾

What is the core pathophysiology of schizophrenia? ▾

What are the signs and symptoms of schizophrenia? ▾

Feedback

[Network science for the identification of novel ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4870991>

May 16, 2016 · Therefore, novel approaches to identify therapeutic targets that improve seizures and comorbidities are urgently required. The potential of network science as applied to genetic, local neural...

Cited by: 7 Author: Rod C. Scott

Publish Year: 2016