

Interactive report

# Schizophrenia: pathophysiological mechanisms — a synthesis<sup>1</sup>

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*Accepted 30 June 1999*

## Abstract

A Nobel Symposium, 'Schizophrenia: Pathophysiological Mechanisms' was held in Stockholm, October 1–3, 1998. The topics ranged from etiology, genetics, neuropathology, neurotransmitter, brain imaging, to integrative aspects including cognition and language. The collective amount of information is already enormous and will rapidly increase with advances in molecular pathology, gene transcript profiling and non-invasive imaging techniques. Probably reflecting the complexity is the absence of a disease model that can accommodate the data and explain its roots. In the process of moving from simplistic mechanisms involving single or a few interacting neurotransmitters or circuits and turning to more complex interactive models, there is a need for improved data storage and retrieval. Stochastic search in chemical libraries for potential new drug candidates coupled with rational approaches in their final design may improve therapeutic efficacy. © 2000 Elsevier Science B.V. All rights reserved.

**Keywords:** Schizophrenia; Etiology; Neurodevelopment; Neuropathology; Neuropharmacology

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## 1. Introduction

The purpose of the Nobel Symposium, Schizophrenia: Pathophysiological Mechanisms, October 1–3, 1998, was to address fundamental aspects on the pathophysiology of schizophrenia. Despite the substantial research efforts that have been made to date, there is still no single theoretical framework that fits the data. Particularly frustrating is that the fundamental questions of today are more or less the same as originally posed by Kraepelin and Bleuler (see

Andreasen this volume). Principally important is the question whether the variable symptoms registered from and experienced by schizophrenics can be characteristic of one disease and not several. Presentations at the symposium highlighted schizophrenia as a disease with very variable clinical manifestations. Terms used by the different contributors to this symposium to characterize schizophrenia varied from an emotional disease to a cognitive disease, congruent with Kraepelin's term 'dementia praecox'. The variable terminology is probably more a reflection of the focus or methodology that a particular author is familiar with, rather than a real difference. My percept perpetuated at the symposium was that schizophrenia is a disease and

<sup>1</sup> Published on the World Wide Web on 3 November 1999.

# Schizophrenia Pathophysiological Mechanisms

**J Elliott**



## **Schizophrenia Pathophysiological Mechanisms:**

This book delves into Schizophrenia Pathophysiological Mechanisms. Schizophrenia Pathophysiological Mechanisms is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Schizophrenia Pathophysiological Mechanisms, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
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  4. In chapter 3, the author will examine the practical applications of Schizophrenia Pathophysiological Mechanisms in daily life. This chapter will showcase real-world examples of how Schizophrenia Pathophysiological Mechanisms can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Schizophrenia Pathophysiological Mechanisms in specific contexts. The fourth chapter will explore how Schizophrenia Pathophysiological Mechanisms is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Schizophrenia Pathophysiological Mechanisms. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Schizophrenia Pathophysiological Mechanisms.

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