

# Recent Advances in the Neurobiology of Depression

By Charles B. Nemeroff, MD, PhD

*ABSTRACT* – Elucidation of the neurobiological basis of depression and other mood disorders is rapidly increasing. Considerable experimental and clinical evidence supports the fundamental roles of serotonin and norepinephrine, as well as the interactions between these systems in the etiology of depression. Substantial evidence has accrued, including changes in neurotransmitter and neurotransmitter metabolite concentrations, reuptake sites, and receptors, to support the hypothesis that alteration in neuronal serotonergic and noradrenergic function occurs in the central nervous system of patients with major depression. Serotonin and norepinephrine represent the major targets of current therapeutic interventions, which may induce longer-term adaptive changes via modulation of the activity of these neurotransmitters. In addition, two neuropeptide neurotransmitters—substance P and corticotropin-releasing factor—have been implicated in the pathophysiology of mood disorders. Preliminary studies have reported the clinical efficacy of a tachykinin NK<sub>1</sub> receptor antagonist and a CRF<sub>1</sub> receptor antagonist in depressive disorders. Further clarification of the precise neurobiological changes occurring in depression has implications for the use and development of novel effective treatments for this disorder. *Psychopharmacology Bulletin*. 2002;36(Suppl 2):6–23

## INTRODUCTION

The role of dysregulated neurotransmitter/neuroregulator systems in the pathophysiology of depression has been the focus of intensive investigation since the seminal publication of the catecholamine hypothesis of affective disorders nearly 40 years ago.<sup>1</sup> The majority of subsequent hypotheses suggest that depression arises from the dysregulation of one or more neurotransmitters or neuroregulators in areas of the brain involved in mood regulation, eg, the cerebral cortex and limbic system.<sup>2,3</sup> The heritability of depression suggests that, in some patients, there is a genetic predisposition to the development of this altered neurobiology.

The identification of the putative biological substrates of depression utilizes the criteria first described by Barchas and colleagues<sup>4</sup> (Table 1). The application of these criteria has implicated the involvement of several neuroregulators in the development of depression. Particularly strong evidence exists for a preeminent role of the monoamine neurotransmitters serotonin (5-HT), norepinephrine (NE), possibly

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**Recent Advances in the Psychobiology of the Depressive Illnesses; Proceedings of a Workshop Sponsored by the Clinical Research Branch, Division of Extramural Research Programs** National Institute of Mental Health (U.S.), 1972

**Recent Advances and Challenges in the Treatment of Major Depressive Disorder** Yong-Ku Kim, 2024-09-12 This book reviews all aspects of major depressive disorder MDD casting light on its neurobiological underpinnings and describing the most recent advances in management The book is divided into four sections the first of which discusses MDD from a network science perspective highlighting the alterations in functional and structural connectivity and presenting insights achieved through resting state functional MRI and the development of neuroimaging based biomarkers The second section examines important diagnostic and neurobiological issues while the third considers the currently available specific treatments for MDD including biofeedback neurofeedback cognitive behavioral therapy acceptance and commitment therapy neuromodulation therapy psychodynamic therapy and complementary and alternative medicine A concluding section is devoted to promising emerging treatments from novel psychopharmacological therapies through to virtual reality treatment immunotherapy biomarker guided tailored therapy and more Written by leading experts from across the world the book will be an excellent source of information for both researchers and practitioners

**Factors in Depression** Nathan S. Kline, 1974

Handbook of Depression Ernest Edward Beckham, William R. Leber, 1985

*Second Review of Some of the Recent Advances in Tropical Medicine, Hygiene and Tropical Veterinary Science* Sir Andrew Balfour, 1911

**Recent Advances in New Zealand Geology** William Noël Benson, 1921

Monthly Weather Review, 1890

*Depressive States and Their Treatment* Vamik D. Volkan, 1985 This comprehensive work updates the psychodynamic and physiological understanding and treatment of mourning depression and the depressive character It covers depression in relation to situational and life events to show how depressed states unfold and are resolved in psychodynamic therapy

**Weekly Letters - Harvard Economic Society** Harvard Economic Society, 1930

**Advances and New Directions**, 1981

*Science Progress*, 1921

Industrial Development and Manufacturers' Record, 1908

**Docket No. 87574**, 1999

Automotive Industries, 1923

Automotive Industries, the Automobile, 1922

*Primary Care of the Older Adult* Mary M. Burke, Joy A. Laramie, 2000 Multidisciplinary in its presentation Primary Care for the Older Adult is written for professionals and examines the common conditions and problems faced by older people The book covers clinical social ethical and legal aspects of such care

*Report of The...meeting of the Australasian Association for the Advancement of Science* ANZAAS (Association), 1908

*International Handbook of Behavior Modification and Therapy* Alan S. Bellack, Michel Hersen, Alan E. Kazdin, 1982 1 History of behavior modification 2 Experimental and theoretical foundations

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This book delves into Recent Advances In Depression. Recent Advances In Depression is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Recent Advances In Depression, encompassing both the fundamentals and more intricate discussions.

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6. In chapter 5, the author will draw a conclusion about Recent Advances In Depression. The final chapter will summarize the key points that have been discussed throughout the book.

The 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 Recent Advances In Depression.

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