

# Functional interplay between central and autonomic nervous systems

**Kenneth Blum**

Father of Psychiatric Genetics/Chief Scientific Officer, University of Florida, USA

## Abstract

Historically, studies on the neural basis of fear conditioning have emphasized the role of the central nervous system. However, there is growing evidence for the role of the autonomic nervous system in human fear conditioning. Here, we provide an overview of the sophisticated anatomical–functional interplay between the prefrontal cortex and heart-related dynamics in human fear conditioning and propose a theoretical model to conceptualize these psychophysiological processes, the neurovisceral integration model of fear (NVI-f). A richer understanding of the neurovisceral concomitants of this functional interplay will have both theoretical and clinical implications.

**Received:** May 05, 2022 ; **Accepted:** May 10, 2022; **Published:** May 15, 2022

## Biography

Kenneth Blum is widely designated as Father of Psychiatric Genetics because of the of the DRD2 gene and its correlation with various psychiatric disorders. He holds numerous domestic and foreign patents and is co-founder and

Chairman & CSO of LifeGen Inc. He is a former Full Professor in the Department of Pharmacology, University of Texas Health Science Center ,San Antonio, Texas; Volunteer Professor in the Department of Psychiatry & McKnight Brain Institute, University of Florida College of Medicine, Gainesville, Florida and Adjunct Full Professor of Psychiatry