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Advances in the Genetics of Plasma Cholesterol Levels

Guest Editor:

Dr. Jesus M. Martin-Campos
Santa Creu i Sant Pau Hospital Research Institute– IIB-Sant Pau, Barcelona, Spain

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Message from the Guest Editor

In 1965, Fredrickson and Lees established the most widely used system to classify hyperlipidemic phenotypes, defining all of them as "familial", which implied the idea of a Mendelian inheritance of genetic variants with a great phenotypic effect. Genome-wide association studies have identified the existence of common genetic variants at various loci associated with plasma cholesterol level, which could explain the most common forms of hypercholesterolemia through processes such as the accumulation in an individual, or gene–gene and gene–environment interactions.

In this Special Issue, we aim to collect recent advances in the genetic determinants of plasma cholesterol levels, especially related to the development of hyper- and hypocholesterolemia, which includes the identification of new genes, the identification of polygenic forms through scoring systems and their possible application in genetic diagnosis, and the possible existence of complex forms due to gene–gene and gene–environment interactions.

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Prof. Dr. Felipe Fregni

1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

Message from the Editor-in-Chief

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Biomedicines Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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