

# Tentative Outline (Preliminary Proposal of Thematic Issue)

## Special/Thematic Issue for the journal "Current Genomics"

### Title: Functional Genomics: Obesity and Its Comorbidities

Guest Editor: Dr. Carmine Finelli

#### • **Scope of the Thematic Issue:**

Obesity has become a global epidemic and contributes to the increasing burden of type 2 diabetes, cardiovascular disease, stroke, some types of cancer, and premature death worldwide. Obesity is highly heritable and arises from the interactions of multiple genes, environmental factors, and behaviour. The inheritance pattern of obesity is thus complex, and environmental factors play an important role in promoting or delaying its development. The identification of susceptibility genes and genetic variants for obesity requires various methodological approaches. Obesity is classified into three main categories on the basis of genetic etiology: monogenic, syndromic, and polygenic obesity. Gene-gene interactions are also observed in several genes, and some genes are found to influence the effect of dietary intake and physical activity on obesity-related phenotypes.

We invite authors to submit original research articles and reviews summarizing clinical, preclinical, or experimental results that analyze the role of adipokines in the onset of obesity and its comorbidities. We are particularly interested in manuscripts that report on the relevance of adipose tissue, adipokines and intracellular signalling pathways involved in the induction of obesity. Moreover, papers dealing with the genetic and environmental factors linking the pathogenesis of obesity and related diseases are very welcome.

**Keywords:** Obesity, Functional genomics, Proteomics, Genetic epidemiology, adipokines, cytokines

#### **Sub-topics:**

- Functional genomics of obesity
- Proteomics study of obesity
- Genetic epidemiology of obesity
- Novel adipokines in overweight and obesity: regulator of food intake and body weight
- Adipokine dysregulation and adipose tissue as a link of obesity and its comorbidities
- Animal studies mimicking human conditions to determine the mechanism by which obesity impacts the etiology of specific conditions

#### **Schedule:**

- ✧ Thematic issue submission deadline: **July 2023**

#### **Contacts:**

**Guest Editor Name:** Dr. Carmine Finelli

**Affiliation:** Department of Internal Medicine, ASL Napoli 3 Sud, Via di Marconi, 66, 80035 Torre del Greco (Napoli), Italy

**Email:** [carminefinelli74@yahoo.it](mailto:carminefinelli74@yahoo.it)