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Nutrigenomics and Cellular Metabolism

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Message from the Guest Editor

The efficacy of nutrient pathway modulation is confirmed by dietary approaches capable of preventing specific diseases (e.g., DASH diet for cardiovascular disease) or increasing overall longevity, such as by restricting calories without malnutrition, fasting mimicking diet and alternate day fasting. In fact, these treatments positively affect disease incidence, progression and overall longevity in animal and cellular models. In addition to these dietary approaches, many natural substances have been demonstrated to affect cellular metabolism, both directly and by means of epigenome modifications. The search for new substances, the molecular characterization of known substances and knowledge on their ability to modify gene expression of single and groups of genes, as well as the safety and efficacy of these molecules when used to prevent single diseases and to affect overall longevity, is thus of critical importance in preventive medicine.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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