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Effect of Nutrients on Gene Expression and Cell Homeostasis

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Deadline for manuscript submissions:

closed (30 June 2020)

Message from the Guest Editors

Dear Colleagues,

The ability to detect changes in nutrient levels and generate an adequate response to these changes is essential for the proper functioning of living organisms. Adaptation to the high degree of variability in nutrient intake requires the precise control of metabolic pathways. Mammals have developed different mechanisms to detect the abundance of nutrients and provide an integrated response. These mechanisms include the control of gene expression (from transcription to translation).

Frequently, alterations in these pathways underlie the onset of several metabolic pathologies. In this context, the complete understanding of these mechanisms may improve our knowledge of metabolic diseases and may offer new therapeutic approaches based on nutritional interventions and individual genetic makeups.

The aim of this Special Issue is to provide an overview of the key components and main molecular mechanisms that connect nutrients' levels, gene expression, and metabolic homeostasis. This Special Issue will include a selection of research papers and review articles covering this area of research.

Dr. Diego Haro

Dr. Joana Relat

Guest Editors



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Special Issue



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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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