# Special Issue

# Inter-organ Crosstalk in Energy Homeostasis

### Message from the Guest Editors

Metabolic disorders, including diabetes and obesity, are on the rise in modern societies despite research efforts to tackle what is now considered a pandemic. Energy homeostasis involves a wide range of mechanisms, tissues and organs. Interestingly, all these partners are interacting with each other to maintain energy balance in physiological conditions. The central nervous system plays a key role by being strongly involved in the coordination of all these mechanisms. The brain constantly receives various signals (nutrients, metabolites, hormones, neural inputs, etc.) from peripheral organs (gut, liver, pancreas, adipose tissue, etc.), providing information on the body energy status. In addition to the brain, the peripheral organs can also sense multiple circulating cues, neural cues, or both, which ultimately leads to metabolic adaptations. This complex communication is crucial: considerable evidence of disrupted crosstalk has been reported between the brain and the periphery, but also between peripheral organs themselves in the development and maintenance of metabolic diseases.

### Guest Editors

Prof. Dr. Claude Knauf

Dr. Lionel Carneiro

Dr. Camille Allard

### Deadline for manuscript submissions

closed (31 July 2023)

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*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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