Aims & Scope:
In the postgenomic era, proteomic technology has rapidly developed to become a powerful tool in the research of human physiology, characterizing the comprehensive proteomic composition and identifying potential novel biomarkers for diagnosis, prognosis and therapy in different clinical fields. Both existing and emerging technologies for the detection and quantitation of new biomarkers promise to further our understanding of pathophysiology. While traditional biochemical approaches continue to be the most widely applied strategies for sample fractionation, new ones are emerging, offering innovative solutions to the analysis of low abundance proteins from complex biological samples.

Endocrine diseases are complex metabolic disorders in which both genetic and environmental factors are involved. The endocrine glands (pituitary, thyroid, parathyroid, adrenal gland, testis and ovary, endocrine pancreas) secrete hormones that are involved in physiological processes essential for cell metabolism. However, the glandular dysfunction that leads to hypersecretion or hyposecretion causes different hormonal endocrine pathologies.

For over two decades, our laboratories have been focused a portion of their research efforts on defining hormonal values to be considered diagnostic for endocrine deficiency or hypersecretion. Included in these endeavors was an exploration into the fluctuations of hormonal values and into the receptor activity of the different hormones, aimed to define the effect of hormones in tissues.

Proteomics could provide novel biomarkers which could serve as potential biomarkers of diseases related to excess or deficiency of hormone action on tissues.

This issue covers the current capabilities and advances in identification and clinical application of protein and peptide biomarkers in endocrine diseases.

Keywords: Endocrinology, proteins, proteomics, pituitary, thyroid, adrenal, reproduction, diabetes

Subtopics:
The subtopics to be covered within this issue are listed below:

- Methodological advancement and procedures aimed to apply proteomic technology to the study of endocrine system
- Advances in molecular genetics and molecular diagnostics of endocrine diseases
- Identification of protein biomarkers of endocrine diseases by means of a molecular approach, and particularly/specifically proteomics
- Application of protein/peptide markers in the clinical management of different endocrine diseases

Schedule:

- Manuscript submission deadline: September 2019
- Peer Review Due: November 2019
- Revision Due: February 2020
- Announcement of acceptance by the Guest Editors: April 2020
- Final manuscripts due: June 2020

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