

Special Issue

Gonadotropin Cell Transduction Mechanisms

Message from the Guest Editors

Gonadotropins act in concert in the regulation of the female and male reproductive systems. Through intricate endocrine communication routes, paracrine and autocrine communication along the HPG axis, they sustain the production of sex steroids by gonads. Different signaling cascades and transcriptional mechanisms are activated, depending on the variation in GnRH pulse frequency, after the synthesis and release of FSH and LH, whose biological effects are mediated directly by coupled receptors (FSHR and LHCGR) or indirectly through different mediators. The dysregulation of one or more of the transduction mechanisms evolves in reproductive disorders, such as infertility and cancer. Despite recent progress in understanding the mechanisms and signaling mediated by gonadotropins, their complex pathways in cells remain to be fully elucidated. Contributions to this Special Issue, of both original research articles and topical reviews, will provide new insights into the mechanisms of action of gonadotropins, deepen our understanding of their biological roles in health and disease, and reveal novel therapeutic opportunities in reproductive and regenerative medicine.

Guest Editors

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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