Special Issue

Molecular Insights in Steroid Biosynthesis and Metabolism

Message from the Guest Editor

Steroid hormones are biosynthesized from cholesterol by the adrenal, gonads, placenta, and skin. In addition, steroid hormones are produced in the metabolism of precursor steroids in non-endocrine tissue such as the intestine, brain, kidneys, and adipose tissue, which express the appropriate steroidogenic enzymes. Since steroids play a pivotal role in normal physiology, steroid hormone dysfunction will be central to pathophysiology. The aim of this SI is to cover a wide range of topics and areas of interest. These include (but are not restricted to) the below-mentioned aspects of steroidogenesis. Both original research and reviews will be considered.

steroid biosynthesis; steroid metabolism; aldo-keto reductase (AKR); cytochrome P450; steroid reductase (SRD5A);17½-hydroxysteroid dehydrogenases (17½HSD); 11½-hydroxysteroid dehydrogenase (11½HSD); reproduction and sexual differentiation; endogenous cardiac steroids; anabolic steroids; prostate cancer; gut microbiome; immune system; inflammation; cardiovascular disease; kidney function; hormone replacement therapy

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Deadline for manuscript submissions

20 February 2026



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



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Message from the Editor-in-Chief

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