

Special Issue

Sex Determination Mechanisms and Disease

Message from the Guest Editors

Sex determination is one of the major developmental fate decisions that occur early in embryos by imposing male or female phenotypic sex on the whole individual; this process is critical especially in the context of frequent congenital sex development disorders/differences (DSD). These conditions are linked with several serious health and social problems from sex assignment at birth and troubles in pubertal development to infertility, increased susceptibility to testicular or ovarian cancer and bone health in adulthood. Albeit the molecular basis of DSD is only partially known, the advances in molecular biology permit day-to-day discovery of new genes regulating sex determination and differentiation. The proposed Special Issue is focused on two main points. The first one is identification of novel genes which are involved in sex development and genomic mutations underlying the various phenotypes. The second point is to uncover roles of these novel genes and their functional relationship in the processes governing human sex development. Endocrinological aspects as well as any other topics related to sex development and DSD are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2021)



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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*International Journal of
Molecular Sciences*
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