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Sex Determination and Gonad Development: From Mechanism to Application

Guest Editor:

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Message from the Guest Editor

Sex determination and gonad development are critically important for the continuity of species with reproduction. How the primordial germ cells and the bipotential gonadal primordium develop into either an ovary or testis that produces egg or sperm cells, respectively, is still a fascinating question. Both genetic factors and environmental factors contribute to sex determination and differentiation in varying degrees depending on species. Recently, the rapid progress of omics research has provided plenty of valuable data and opportunities to push the field forward. Hence, we have decided to set up this Special Issue of *Life*. The aim and scope include but are not limited to the evolutionary origin of sexual differentiation, the molecular and cellular mechanisms controlling gonad development and gametogenesis, the biological functions of sex-related genes, agricultural animal sex-controlled breeding, the artificial reproduction of economic and endangered species, and human reproductive health and disorders. Research and review papers on all aspects of sex determination and gonad development are welcomed.



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Special Issue



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Message from the Editor-in-Chief

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