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New Insights into Embryonic Development

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Message from the Guest Editor

Several research groups significantly improved early human embryo in vitro culture conditions, allowing observation and experimentation at developmental stages which had been, until recently, inaccessible to research. These new approaches promise huge progress in the acquisition of knowledge in the early human development field, remarkably different compared to the development of model mice, cattle, ovine, or rat embryos and fetuses. For this reason, the simple projection or direct transfer of information from model embryos and/or fetuses to human embryos is potentially misleading and, thus, controversial.

Despite the differences between human and model mammals, numerous molecular pathways involved in embryo development are common, or at least very similar, not only in different species of mammalian embryos but also in other vertebrates and even invertebrates. This is why this Special Issue will gather original and review articles clarifying all the molecular and cellular aspects of embryo development, starting from invertebrates and concluding with mammals—especially human embryos and fetuses.













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Message from the Editor-in-Chief

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