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Nota di contenuto	Front Cover; Contents; Introduction; 1. What Makes us Human? A Biased View from the Perspective of Comparative Embryology and Mouse Genetics; 2. Maternal Diabetes Alters Transcriptional Programs in the Developing Embryo; 3. Increased Expression of Heat Shock Protein 105 in Rat Uterus of Early Pregnancy and Its Significance in Embryo Implantation; 4. Ovarian Hyperstimulation Syndrome and Prophylactic Human Embryo Cryopreservation: Analysis of Reproductive Outcome Following Thawed Embryo Transfer 5. Neural Differentiation of Embryonic Stem Cells In Vitro: A Road Map to Neurogenesis in the Embryo6. Defining Human Embryo Phenotypes by Cohort-Specific Prognostic Factors; 7. Search for the Genes Involved in Oocyte Maturation and Early Embryo Development in the Hen; 8. Ectopic Pregnancy Rates with Day 3 Versus Day 5 Embryo Transfer: A Retrospective Analysis; 9. Transcriptome Analysis of Mouse Stem Cells and Early Embryos; 10. Transcriptional Profiling Reveals Barcode-Like Toxicogenomic Responses in the Zebrafish Embryo 11. Release of sICAM-1 in Oocytes and In Vitro Fertilized Human Embryos12. Three-Dimensional Analysis of Vascular Development in the Mouse Embryo; 13. Nucleogenesis and Embryonic Genome Activation are Defective in Interspecies Cloned Embryos Between Bovine Ooplasm and Rhesus Monkey Somatic Cells; 14. Expression of Transmembrane Carbonic Anhydrases, CAIX and CAXII, in Human Development

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## Sommario/riassunto

Embryology is the study of embryos. It is the branch of biological science that deals with the formation and early development of an individual organism, from fertilization of the egg (ovum) to birth. This collection includes articles on some of the most important topics in embryology today, such as cryopreservation of human embryos, in vitro generation of neurons from embryonic stem cells, embryonic transfer, transcriptional profiling, and more.

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