

Atlas of human pluripotent stem cells : derivation and culturing

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Abstrak

Human pluripotent stem cells, including human embryonic stem cells and induced pluripotent stem cells, are a key focus of current biomedical research. The emergence of state of the art culturing techniques is promoting the realization of the full potential of pluripotent stem cells in basic and translational research and in cell-based therapies. This comprehensive and authoritative atlas summarizes more than a decade of experience accumulated by a leading research team in this field. Hands-on step-by-step guidance for the derivation and culturing of human pluripotent stem cells in defined conditions (animal product-free, serum-free, feeder-free) and in non-adhesion suspension culture are provided, as well as methods for examining pluripotency (embryoid body and teratoma formation) and karyotype stability.