



Cell and Molecular Biology and Imaging of Stem Cells

Cell and Molecular Biology and Imaging of Stem Cells features original and review articles written by experts who have made significant contributions to stem cell biology and imaging. Chapters cover a broad spectrum of aspects of the field, including Stem Cells from the Amniotic Fluid and Placenta, Biomaterials as Artificial Niches for Pluripotent Stem Cell Engineering, Low-Intensity Ultrasound in Stem Cells and Tissue Engineering, Mammalian Neo-Oogenesis from Ovarian Stem Cells, Oct4-EGFP Transgenic Pigs as a New Tool for Visualization of Pluripotent and Reprogrammed Cells, Regulation of Adult Intestinal Stem Cells, Stem Cell Therapy for Veterinary Orthopedic Lesions, Sex Steroid Combinations in Regenerative Medicine for Brain and Heart Diseases, Hair Follicle Stem Cells, The Potential of Using Induced Pluripotent Stem Cells in Skin Diseases, Mitochondrial Differentiation in Early Embryo Cells and Pluripotent Stem Cells, and The Role of Centrosomes in Cancer Stem Cell Functions.

Cell and Molecular Biology and Imaging of Stem Cells addresses a wide variety of cell and molecular topics in unprecedented detail, and is a must-read for graduate students and academic and industry professionals in the expanding field of stem cell biology.

- Reviews new imaging tools and markers for cell and molecular imaging in stem cell biology
- Covers novel aspects of stem cell imaging in reproductive biology and stem cell niches
- Includes chapters on the developing area of centrosome biology as it applies to embryonic and adult stem cell differentiation

About the Editor

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