Hematopoietic Stem Cells VI, Volume 1106. Annals of the New York Academy of Sciences

Description: Stem cell research holds great promise for therapeutic applications. This rapidly advancing field is the focus of the biennial international symposium and workshop whose proceedings are contained within this volume.

The major topics covered are stem cell function, including self-renewal, survival, migration, and regulation; the stem cell niche; stem cell fate as lineage commitment takes place; malignant hematopoiesis; hematopoiesis regulators; and embryonic stem cells and plasticity.

As with previous volumes in this unique series of proceedings, it is hoped that further cooperation and collaborative projects will be generated by disseminating these presentations widely.

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2. The Stem Cell Continuum: Cell Cycle, Injury, and Phenotype Lability: Peter J. Quesenberry, Gerald Colvin, Gerri Dooner, Mark Dooner, Jason M. Aliotta, and Kevin Johnson.
3. Inference, Validation, and Dynamic Modeling of Transcription Networks in Multipotent Hematopoietic Cells: Shamit Soneji, Sui Huang, Matthew Loose, Ian John Donaldson, Roger Patient, Berthold Gottgens, Tariq Enver, and Gillian May.

Part II: Stem Cell Niche:
5. Cytokine Signaling, Lipid Raft Clustering, and HSC Hibernation: Satoshi Yamazaki, Atsushi Iwama, Yohei Morita, Koji Eto, Hideo Ema, and Hiromitsu Nakauchi.

Part III: Stem Cell Fate:
7. Cartography of Hematopoietic Stem Cell Commitment Dependent upon a Reporter for Transcription Factor Activation: Koichi Akashi.

Part IV: Malignant Hematopoiesis:


Part V: Regulators:

12. LEF–1 Is a Decisive Transcription Factor in Neutrophil Granulopoiesis: Julia Skokowa and Karl Welte.

13. Role of Thrombopoietin in Mast Cell Differentiation: Anna Rita Migliaccio, Rosa Alba Rana, Alessandro M. Vannucchi, and Francesco A. Manzoli.


Part VI: Embryonic Stem Cells and Plasticity:


Part VII: Stem Cell Exhaustion:


Part VIII: Mesenchymal Stem Cells and Transplantation:


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