



CDB SEMINAR

Jon D. Chesnut

Stem Cells and Regenerative Medicine, Invitrogen Corp., USA

Thursday, September 14

16:00~17:00 C1F CDB Auditorium

Defining Stem Cell Characteristics: Tools and Approaches

Summary

The field of stem cell research is challenged with the questions of defining the basis of pluripotency and differentiation down particular lineages. In order to approach these questions, it is important to know as much as possible about the cells and how they interact both *in vivo* and in the culture dish. Invitrogen has assembled a comprehensive set of stem cell tools that can be combined to gain as much information as possible to allow an easier path toward understanding these important processes.

As part of this effort, we are researching novel ways of information collection and developing genetically engineered stem cell lines for basic developmental research, drug testing, and potential future therapeutic applications. The development and application of this novel set of cell engineering and analytical tools along with the importance of standardized growth conditions and analysis will be discussed.

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