



CDB SEMINAR

Andras Nagy

Samuel Lunenfeld Research Institute, Mount Sinai Hospital

Monday, November 12, 2007

16:00~17:00 A7F Seminar Room

Embryonic Stem (ES) cells: the changing genetic landscape

Summary

The completion of the sequencing of the mouse genome created the next, even larger challenge; the functional annotation of genes and active genomic elements. To accelerate this enormous undertaking, the European Commission, Genome Canada and the NIH, started a coordinated effort of mutating all the mouse genes in ES cells and provided the cell lines or the mutant mouse to the scientific community for phenotyping. My laboratory is part of two of the three mutagenesis projects, providing ES cells, quality control and gene targeting strategies.

In this presentation, insight into these international projects will be given, pointing out how these new efforts will change the landscape of mouse genetics in the very near future. Furthermore, details about the unique features of the Canadian strategy (NorCOMM) will be provided, which allows for easy and flexible total replacement of the targeted allele with any imaginable vector.

Host:

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