



Cornell University
College of Veterinary Medicine

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Stem Cell and Transgenics Core
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Characterization / Validation Services

The core offers a variety of services for the characterization and validation of ES and iPS cell lines. Prices are shown per cell line. Additional cell lines can be analyzed simultaneously at a discounted rate.

AP Staining (\$55): Colonies of ES or iPS cells are stained for alkaline phosphatase activity, a basic marker of pluripotency. AP positive colonies can be counted as a measure of reprogramming efficiency per cell line.

Karyotype Analysis (\$300): Metaphase spreads are prepared and 30+ are imaged and counted to determine normal karyotype. Individual images and corresponding counts are made available upon request.

Embryoid Body Formation (\$250): Embryoid bodies are formed by suspension culture in hanging drops, and then differentiated to form tissues of all three germ layers as determined by morphology and rt-PCR or immunostaining.

Teratoma formation (\$300): 10^6 cells are injected subcutaneously into the dorsal flanks of SCID mice, and allowed to form a teratoma over the course of 4-6 weeks, after which the teratomas are removed and sectioned to determine the presence of tissues from all three germ layers. Each cell line is injected 4 times, and on average 3 teratomas are produced.