Cornell University
College of Veterinary Medicine

Christian Abratte,
Cornell University
Biomedical Sciences
iPS Core Laboratory
Vet Tower T9-010
Ithaca, NY 14853
607-253-4189
Ca258@cornell.edu

Characterization / Validation Services

The iPS Core offers a variety of services for the characterization and validation of ES and iPS cell lines. Cell lines can be submitted cryo-preserved to the iPS core, or they can be lines that were generated here at the core. Prices shown are for a single cell line. Additional cell lines can be analyzed simultaneously at a discounted rate.

AP Staining ($70): Colonies of ES or iPS cells are stained for alkaline phophatase activity, a basic marker of pluripotency.

Karyotype Analysis ($250): 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.

Teratoma formation ($350): 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. RNA extraction and analysis by rtPCR is also available.