



University of Connecticut Health Center

Flow Cytometry Facility

October 21, 2009

Ref: Letter of Support for Applicants to the Connecticut Stem Cell Research Grants Program.

Dear Investigator

The University of Connecticut Health Center established a Flow Cytometry Facility over 20 years ago to assist scientists with multiple applications related to the identification, characterization and isolation of defined cell populations. Through this facility, investigators have access to state of the art instrumentation, and receive training and advice on how to apply this important technology to their research needs. During the past years the facility has put great effort on developing applications to be used by stem cell researchers. There has been strong institutional support that resulted in the purchasing of a new Cell Sorter instrument that is optimized for the analysis and sorting of human cells including hESCs, iPSCs and their derivatives. This has translated in a funded Core Grant from the Connecticut Stem Cell Research Grants Program to further implement and develop flow cytometry applications for hESC research. These include the hiring of operators trained in stem cell applications.

If your proposal involves the use of flow cytometry in your experimental designs the Flow Cytometry Facility is committed to provide the following services to facilitate your success:

Advice on the use of multiple instruments for analyses of complex cell mixtures through their reactivity with antibodies against cell surface and intracellular molecules. This includes advice and training on interpretation of flow cytometry data.

Training on the operation of any of three flow cytometry analyzers certified for hESC applications.

Advice on the use of different antibodies to assess the undifferentiated status of hESCs and their differentiation potential towards various lineage pathways.

Operator assisted isolation of homogenous live populations of human pluripotent stem cells and their derivatives by cell sorting.

Assistance on specialized flow techniques like cell cycle analyses, cell survival and single cell sorting.

If you would like to discuss your flow cytometry needs or more details on the services offered, please do not hesitate to contact me. I will be happy to help you or direct you to the right source. Good luck with your application. Sincerely,

Hector Leonardo Aguila, PhD
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