OMICS Group Conferences
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International Expo and Conference on
Analytrix & HPLC

October 22-24, 2012 DoubleTree by Hilton Chicago-North Shore, USA

The ionic liquid effect on the preparation of epoxy-silica nanocomposites

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Regulatory T cells (Treg) are important regulators of the immune system, however, in many types of cancer an increase in the number of Treg has been observed. Foxp3 is a transcription factor involved in the development and function of Treg. Recently, Foxp3 expression was thought to be restricted to the T-cell lineage, however it also has been detected in different types of human cancer cell lines, although the role of Foxp3 in cancer cells is still unclear. The aim of this study was to determine the correlation between Foxp3 expression, Treg, and cytokine production during the development of a murine melanoma. We detected the Foxp3 expression in B16F10 cancer cell line by immunofluorescence, flow cytometry, and real time-PCR. The results showed that Foxp3 expression was increased during tumor development in intratumoral B16F10 cancer cells and it was positively correlated with the percentage of infiltraiting regulatory T cells (CD4+CD25+FOXP3+), and TGF-β and IL-10 production was increased, the INF-γ production was decreased evaluated at 7, 14, 21, and 28 days. These results suggest that Foxp3 expression in B16F10 melanoma cells could act as an important regulator in the growth of melanoma.

Biography

Moises Armides Franco Molina completed his Doctoral degree at age of 35 from Universidad Autónoma de Nuevo León. He actually is Professor and President of Immunology Academy of the faculty of Biology Science of the Universidad Autonoma de Nuevo Leon. He has published more than 18 articles in international journals.

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