



Submission No.: PG07-9337

Session : Postgraduate Course 7 (Basic)

Date & Time, Place : November 16 (Thu), 13:00-14:30, Room 6F-1

Session Title : Newly emerging immune cells

Regulatory B cells

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Regulatory B cell (Breg) is a B cell subset associated with regulatory capacity. This B cell subset demonstrates regulatory function by promoting the development of Tregs while suppressing effector CD4 and CD8 T cells, primarily through IL-10 secretion. Several B cell subsets have been known as Breg, including CD24^{hi}CD38^{hi} transitional B cells or CD27⁺CD24^{hi} B10 cells, yet a definite marker for Breg remains elusive. Despite the limited understanding of the active role of Breg, this presentation aims to provide a concise overview of the basic biology of Bregs, with a specific focus on their significance in transplantation.