

BIOASSAYS TO MEASURE ANTIBODY EFFECTOR FUNCTIONS

T. Shantha Raju, Bioassay Development, Analytical Sciences, Medimmune, Gaithersburg
rajut@medimmune.com

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Recombinant monoclonal antibodies (mAbs) exhibit multiple mechanism of actions (mMOAs). The mMOAs of mAbs includes: (1) antigen binding, (2) antigen binding and neutralizations, (3) antigen binding and inhibition, and (4) antigen binding and cell killing. The cell killing MOAs of mAbs are mainly based on the antibody effector functions. Upon binding to antigen, the Fc portion of mAb binds to FcγR's to effect the target cell killing via ADCC, ADCP, etc. This presentation will discuss strategies for the development of high-throughput bioassays to measure antibody effector functions based cell killing mechanisms of mAbs. This presentation will also address some of the new mechanism of actions of mAbs such as trogocytosis, ADCR, etc.