

**OBA 654 PROTOCOL AMENDMENT**  
**# 3 Non-technical Abstract**

Mantle cell lymphoma (MCL) is an incurable cancer. The immune system is capable of killing cancer cells, but lymphoma cells have learned how to escape being killed by "paralyzing" the immune system. Cancer cells weaken the immune-presenting "dendritic" cells and cause cancer-fighting "T" cells to be unresponsive or "tolerant". Our vaccine, designed to recruit / activate dendritic cells and help T-cells to kill lymphoma cells, consists of two kinds of cells: 1) a patient's own cancer cells, removed by surgery, and 2) "bystander" cells (called "GM.CD40L") that are genetically modified to help boost the immune system and perhaps cure MCL.