



**BİLKENT UNIVERSITY**  
**MOLECULAR BIOLOGY AND GENETICS**  
**DEPARTMENTAL SEMINAR**

**"IL-10-producing NKT10 cells are a novel regulatory iNKT cell subset"**

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Invariant Natural Killer T (iNKT) cells are a unique subset of T cells that combine features of innate NK cells and adaptive memory T cells. They are characterized by an invariant TCR $\alpha$  rearrangement and the recognition of glycolipid antigens. iNKT cells rapidly produce copious amounts of various cytokines after activation and can thereby impact a dazzling variety of different immune reactions, ranging from responses against pathogens and tumors to autoimmunity. A reasonable explanation for these wide-ranging activities could be the recent insight that iNKT cells are comprised of several distinct subsets. Recently, we described a novel iNKT cell subset, present in mice and humans, with IL-10-dependent regulatory function, which we termed NKT10 cells. Here the characteristics, functions and the therapeutic potential of NKT10 cells will be outlined.

**Date-Time : Wednesday, February 10 , 2016 – at 15:40**  
**Place : SBZ-14**  
**Host : Çağlar Çekic**