

学位論文審査結果の要旨

所 属	三重大学大学院医学系研究科 甲 生命医科学専攻 病態解明医学講座 新生児医学分野	氏 名	須 麗清
審 査 委 員	<div style="display: flex; justify-content: space-between; padding: 5px;"> <div style="width: 30%;">主 査</div> <div style="width: 60%;">池田 智明</div> </div> <div style="display: flex; justify-content: space-between; padding: 5px;"> <div style="width: 30%;">副 査</div> <div style="width: 60%;">ガバザ エステバン</div> </div> <div style="display: flex; justify-content: space-between; padding: 5px;"> <div style="width: 30%;">副 査</div> <div style="width: 60%;">田中 利男</div> </div>		
<p>(学位論文審査結果の要旨)</p> <p>Cord blood CD4⁺CD25⁺ regulatory T cells fail to inhibit cord blood NK cell functions due to insufficient production and expression of TGF-β1</p> <p>著者らは論文において下記の内容を述べている。</p> <p>Although CD4⁺CD25⁺ Treg (Treg) cells are known to modulate NK cell functions, the modulation mechanism of these cells in cord blood has not been fully clarified. The purpose of this study was to clarify the mechanism whereby cord blood Treg cells modulate cord NK cells. By performing various cultures of purified NK cells with or without autologous Treg cells, diminished inhibitory effects of cord Treg cells towards cord NK cell functions, including activation, cytokine production, and cytotoxicity, were observed. We also observed lower secretion of sTGF-β1 and lower expression of mTGF-β1 by cord Treg cells than by adult Treg cells. These data revealed the capability of adult Treg cells to suppress rhIL-2-stimulated NK cell function by TGF-β1, both membrane-bound and soluble types. The reduced inhibitory capabilities of cord Treg cells compared with adult Treg cells is thought to be due to insufficient expression of TGF-β1.</p> <p>新生児期の感染防御に重要な自然免疫の担い手である NK 細胞が成人に比べ制御性 T 細胞で抑制され難く、その原因が臍帯血制御性 T 細胞における TGF-β1 の発現不足であることを初めて明らかにした論文であり、学術上極めて有益であり、学位論文として価値あるものと認めた。</p> <p>Cellular Immunology 2014; 290: 89-95</p> <p>Liqing Xu, Shigeki Tanaka, Motoki Bonno, Masaru Ido, Masatoshi Kawai, Hatsumi Yamamoto, Yoshihiro Komada</p>			