## Abstract Preview - Step 3/4

- print version -

1st Category:	C03 Antibody deficiencies
2nd Category:	
3rd Category:	
Title:	TACI expression and mutational status in Greek patients with common variable immunodeficiency and selective IgA deficiency
Author(s):	<u>M. Speletas</u> <sup>1</sup> , A. Mamara <sup>1</sup> , G. Iordanakis <sup>1</sup> , E. Papadopoulou-Alataki <sup>2</sup> , E. Tsitsami <sup>1</sup> , A.E. Germenis <sup>1</sup>
Institute(s):	<sup>1</sup> University of Thessaly, Department of Immunology and Histocompatibility, Larissa, Greece, <sup>2</sup> Aristotle University of Thessaloniki, Pediatric Clinic, Papageorgiou General Hospital, Thessaloniki, Greece
Text:	<ul> <li>Purpose: TACI (Transmembrane Activator, calcium modulator and Cyclophilin ligand Interactor) is a transmembrane receptor, which mediates isotype switching in B cells. Recently, mutations in <i>TNFRSF13B/TACI</i> gene were found in 10-20% of patients with common variable immunodeficiency (CVID), implying their contribution in the disease pathogenesis and/or phenotypic expression. The purpose of this study was to analyze the mutational status and the expression of <i>TNFRSF13B/TACI</i> in Greek patients with CVID and selective IgA deficiency (sIgAD).</li> <li>Methods: Thirty-two unrelated patients (M/F: 16/17), with a mean age at diagnosis 13.7 years (range: 1-64) were enrolled. Amongst them, 14 suffered from CVID, 13 from sIgAD, 3 from sIgG4D and 2 from transient hypogammaglobulinemia. DNA was extracted from peripheral blood by standard protocol. Amplification of all exons of <i>TNFRSF13B/TACI</i> gene was followed and the purified PCR products were directly sequenced. The expression levels of TACI were measured by flow cytometry using an anti-CD267 monoclonal antibody (Abcam, clone: 1a1). 108 healthy controls (M/F: 44/64, mean age: 42.6 years, range: 7-93) were also analyzed for TACI expression and for the presence of the two most common missense polymorphisms (V220A, P251L - detected by PCR-RFLP).</li> <li>Results: Only the two common <i>TNFRSF13B</i> polymorphisms (V220A and P251L) were detected amongst patients, with prevalence, however, that did not differ from that detected in normal controls (mean±SDEV: 18.9±20.8 vs 34.8±17.2, p=0.018). In normal controls, the presence of polymorphisms but its levels were found significantly lower than that detected in normal controls (mean±SDEV: 18.9±20.8 vs 34.8±17.2, p=0.018). In normal controls, the presence of polymorphisms was not associated with hypogammaglobulinemia. In the later group, however, a negative correlation was observed between the P251L polymorphism and TACI expression.</li> <li>Conclusions: The <i>TNFRSF13B/TACI</i> coding region does not seem to disp</li></ul>

Conference: 2nd European Congress of Immunology · Abstract: A-136-0043-04069 · Status: Draft



