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the risk. The alanine to threonine substitution of FABP2 gene can't be used as diagnostic marker for psoriasis and validation of these findings require to replicate within large-



Fatty acid-binding protein 2 Ala54Thr polymorphism among psoriatic patients in Çanakkale, Turkey

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ABSTRACT

* C	A single publication relumeration (C to A) in order 54 of even two resulting in an al
* Correspondence to: Meliha Merve Hız Department of Biology, Faculty of Arts and Science, Çanakkale Onsekiz Mart University, Çanakkale, Turkey e-mail: mervemeliha@comu.edu.tr	A single nucleotide polymorphism (G-to-A) in codon 54 of exon two resulting in an al- anine to threonine substitution and we hypothesized that, in psoriatic patients Ala54Thr carriers would have increased risk for psoriasis than Ala54-homozygous counterparts. 141 psoriatic patients and 131 healthy individuals who gave informed consent, were en- rolled to study. FABP2 polymorphism was evaluated with melting curve analysis (Re- alTime PCR). Genotype frequencies were estimated by gene counting. In consistency of genotype frequencies with the Hardy-Weinberg equilibrium was tested using a Chi- Square. Odds ratio (OR) and 95% confidence interval were calculated to estimate the risks related to (FABP2) Ala54Thr polymorphism. To calculate the significance of OR, Fisher's exact test was used. Eighteen patients (12.8%) had Ala54/Ala54 (wild group) and 118 (83.7%) patients a mutant genotype, Ala54/Thr54 (55 patients, 39%) or Thr54/ Thr54 (63 patients, 44.7%). In control group, ten subjects (7.6%) had the genotype Ala54/ Ala54 (wild-type group) and 121 (92.4%) participants had the genotype Ala54/Thr54 (n=47, 35.9%) or Thr54/Thr54 (n=74, 56.5%). The genotype distribution were consistent with Hardy-Weinberg equilibrium for psoriatic and healthy groups (χ^2 calculated: 0.07 ^{2nd} degree).When psoriatic patients with homozygote "AA" or heterozygote genotype "GA" were compared with the ones with normal genotype, no statistical correlation was found (ORAAvs GG:0.47; 95%CI: 0.20-1.09; p:0.08 and ORGA vs GG:0.65; 95%CI: 0.27- 1.55; p:0.33). Aside the transition of G to A at codon 54 of FABP2 were not increased psoriasis risk in statistically significant manner (OR: 0.68;95% CI: 0.47-0.99; p: 0.046). The overall odds ratio was found 0.697 (p=0.055) by Armitage's Trend Test. We found no correlation between allelic distribution or genotype frequency of FABP2 Ala54Thr polymorphism and psoriasis. In conclusion, our present results suggest that FABP2 geno- types were not statistically significant and unsuitable to use as dependent dete
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scale study group to find real association.

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