

Evaluation of the Role of Microsomal Epoxide Hydrolase Gene Polymorphism and Paraoxonase Activity in the Pathogenesis of Chronic Obstructive Pulmonary Disease

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Abstract

Antioxidants are important for the protection from oxidative stress, in our study 25 patients with COPD, 25 smokers and 10 nonsmokers were included, we found that the homozygous mutation was only present in COPD patients and the mutant heterozygous mutation was found in COPD and smokers, PON1 activity was higher in nonsmokers than smokers and COPD patients respectively, So we conclude that smoking lead to decrease antioxidants activity and cause gene polymorphisms that lead to COPD.

Keywords: COPD; Mephx; PON1 .