### عنوان مقاله:

Association of rsY9\Delta FoY9 and rsF9\Lambda Y Variants with Coronary Artery Disease by HRM Technique: A GWAS

Replication Study in an Iranian Population

## محل انتشار:

مجله گزارش های بیوشیمی و زیست شناسی مولکولی, دوره 10, شماره 4 (سال: 1400)

تعداد صفحات اصل مقاله: 9

# نویسندگان:

Zahereh Karimi - Department of Medical Laboratory Sciences, School of Allied Medical Sciences, Shahid Beheshti .University of Medical Sciences, Tehran, Iran

Javad Daneshmoghadam - Department of Medical Laboratory Sciences, School of Allied Medical Sciences, Shahid

.Beheshti University of Medical Sciences, Tehran, Iran

Hamid Ghaedi - Department of Clinical Biochemistry, Faculty of Medicine, Tehran University of Medical Sciences, .Tehran, Iran

Ehsan Khalili - Department of Clinical Biochemistry, Faculty of Medicine, Tehran University of Medical Sciences, .Tehran, Iran

Ghodratollah Panahi - Department of Clinical Biochemistry, Faculty of Medicine, Tehran University of Medical .Sciences, Tehran, Iran

Mehrnoosh Shanaki\* - Department of Medical Laboratory Sciences, School of Allied Medical Sciences, Shahid

.Beheshti University of Medical Sciences, Tehran, Iran

#### خلاصه مقاله:

Background: Genome-wide association studies (GWAS) have been the primary tool for an unbiased study of the genetic background of coronary artery disease (CAD). They have identified a list of single-nucleotide polymorphisms (SNPs) associated with coronary artery disease (CAD). In this study, we aimed to replicate the association of rsY9ΔF∘Y9 and rsF9λYΔ∘Y, a GWAS identified SNP, to CAD in an Iranian population. Methods: A sample of YλΔ subjects undergoing coronary angiography, including 11th CAD patients and 1Δ1 healthy. The genotype determination of rsY9ΔF∘Y9 and rsF9λYΔ∘Y SNPs performed using the high-resolution melting analysis (HRM) technique. Results: Our results revealed that the TT genotype of rsY9ΔF∘Y9 (p= ∘.∘∘9) and rsF9λYΔ∘Y (p< ∘.∘∘1) were significantly higher in CAD patients compared with controls. Binary logistic regression showed that rsF9λYΔ∘Y and rsY9ΔF∘Y9 increase the risk of CAD incidence (Y.FV∘ times, p= ∘.∘1), 9Δ% CI= [1.·19-F.YΔ1], and Y.1YF times, p= ∘.∘ΨΨ, 9Δ% CI= [1.∘۶F-F.FΨΨ] respectively). After adjusting for confounders, we found that rsF9λYΔ∘Y and rsF9λYΔ∘Y are significantly associated with CAD risk. Conclusions: These data showed that the TT genotype of rsY9ΔF∘Y9 and rsF9λYΔ∘Y is associated with the risk of CAD in a hospital-based sample of the Iranian population, which has replicated the result of recent GWAS .studies

# كلمات كليدى:

Coronary Artery Disease (CAD), Genome-Wide Association Studies (GWAS), High-Resolution Melting (HRM), Single-.(Nucleotide Polymorphisms (SNP

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