Psoriasin and rs4819554 of IL-17RA gene polymorphism in psoriasis

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Dear Editor, we read the publication on "A potential association between psoriasin to rs4819554 of IL-17RA gene polymorphism in psoriasis Egyptian patients" with a great interest [1]. Sabry et al. noted that "IL-17 rs4819554 is significantly associated with psoriasis, and with psoriasin level, in the Egyptian population" [1]. In fact, IL17 polymorphisms may be associated with clinical diseases. The underlying pathogenesis that explains the clinical association between 17 polymorphisms and clinical disorders is the clinical phenotype change resulted from molecular weight change [2]. Focusing on the IL-17 rs4819554, the A–G change results in molecular weight change equal to + 15.98 g/Mol (from 135.15 to 151.13 g/Mol) that can further result in altered phenotypic expression. Nevertheless, there are possible confounding effects of other genetic polymorphisms that might be associated with psoriasis. The examples of those genetic polymorphisms are Gap Junction Protein Beta-2 rs3751385 Gene and IL 10 promotor gene polymorphisms [3, 4]. Future studies on confounding effects of other genetic polymorphisms are recommended.

References

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