

LCE3C_LCE3B-del genotype and psoriasis: a summative meta-analysis

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Editor, the genetic underlying factor of psoriasis is interesting and is still a myth. The LCE3C_LCE3B-del genotype is a polymorphism that is presently focused in dermatological research. de Cid *et al.* noted that "LCE expression can be induced in normal epidermis by skin barrier disruption and is strongly expressed in psoriatic lesions, suggesting the compromised skin barrier function" (1). Here, the author performs a summative meta-analysis of the case-control studies of the frequency of LCE3C_LCE3B-del genotype among patients with psoriasis and controls. Studies not designed as case-control studies or those not published in English language are excluded. Of interest, there are only 2 complete reports (2-4) on this topic. Overall 4,683 subjects were included, 2,409 cases and 2,274 controls (all Caucasians). It can be seen that there is no difference in genotype frequencies between the two groups ($P>0.05$). When adding more data from a case without control study (1) to the case group (overall 7,514 subjects, 5,204 cases), it can still be seen that there is no difference in genotype frequencies between the two groups ($P>0.05$). This might imply that there is no relationship between LCE3C_LCE3B-del genotype and psoriasis. However, it should be noted that (a) all studies were focused on Caucasians, hence it cannot be generalized to non Caucasians, and further studies among Asian and Negroid populations are suggested, and (b) data on specific dermatological signs and symptoms are not completely derived, hence, it is further studies on this topic are needed.

References

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