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J Cell Sci Ther 2018, Volume 9
DOI: 10.4172/2157-7013-C2-045



# Epigenetic marker for the diagnosis and treatment for Korean asthma patients in Korean differentiation-syndrome category: Pilot study

**Ju Yeon Ban[1], Seul-A Jin[1], Sang Wook Kang[1] and Su Kang Kim[2]**
[1]Dankook University, Republic of Korea
[2]Catholic Kwandong University, Republic of Korea

The present study shows a novel epigenetic marker for diagnosis and treatment for Korean asthma patients in Korean differentiation syndrome category. We recruited 62 patients with asthma from respiratory medicine department in Kyung Hee University Korean Medicine Hospital, Pusan National University Korean Medicine Hospital, Daejeon University Dunsan Korean Medicine Hospital and Semyung University Korean Medicine Hospital. They are classified by symptom diagnosis and questionnaire and their DNA were collected. Epigenetic analysis was performed using agilent sureselect human methyl-sequencing. In results, total of 8 sites in exon region in MDGA1 gene was considered to be closely related to differentiation-syndrome category in Korean asthma patients. The gene that contains the region MDGA1 could be regarded for differentiation-syndrome category in Korean asthma patients as an epigenetic candidate marker.

jyban@dankook.ac.kr

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