

Title: ABCG2 contributes to the development of gout and hyperuricemia
in a genome-wide association study

Chung-Jen Chen^{1,2}, Chia-Chun Tseng³, Jeng-Hsien Yen^{4,5}, Jan-Gowth Chang⁶, Wen-Cheng Chou⁷, Hou-Wei Chu⁷, Shun-Jen Chang^{8,*}, Wei-Ting Liao^{9,*}

¹Division of General Internal Medicine, Department of Internal Medicine, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan.

²Department of Internal Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan.

³Department of Internal Medicine, Kaohsiung Municipal Ta-Tung Hospital, Kaohsiung, Kaohsiung Medical University, Kaohsiung, Taiwan.

⁴Division of Rheumatology, Department of Internal Medicine, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan.

⁵Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan.

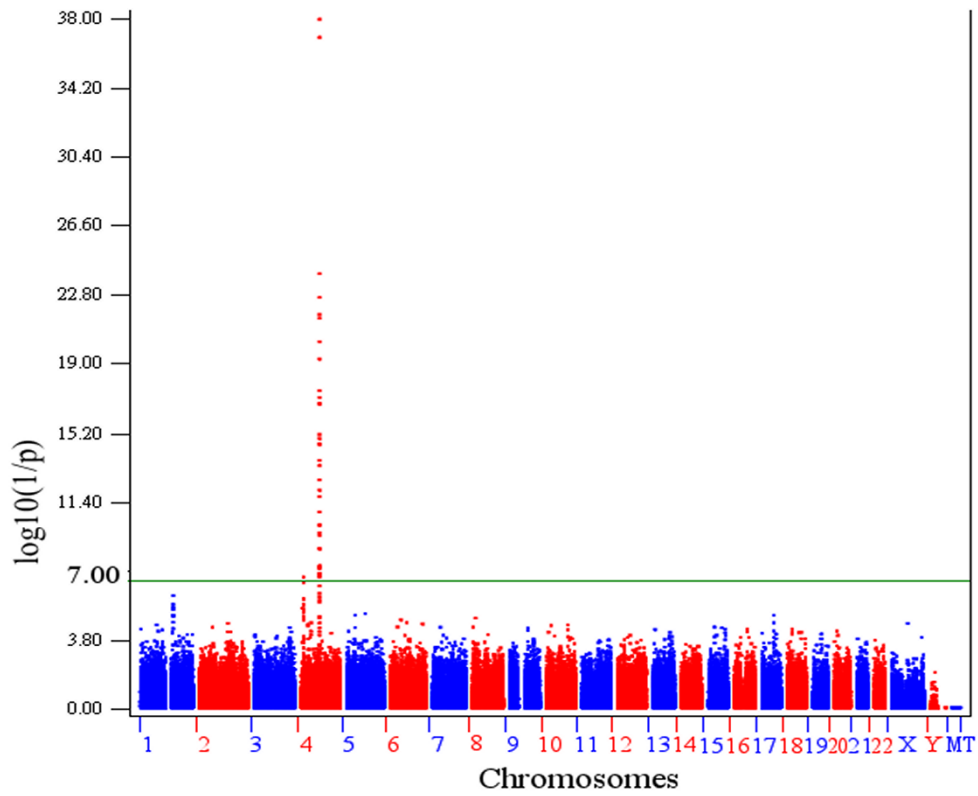
⁶Department of Laboratory Medicine and Epigenome Research Center, China Medical University Hospital, China Medical University, Taichung, Taiwan.

⁷Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan.

⁸Department of Kinesiology, Health and Leisure Studies, National University of Kaohsiung, Kaohsiung, Taiwan.

⁹Department of Biotechnology, College of Life Science, Kaohsiung Medical University, Kaohsiung, Taiwan.

*Corresponding author: Shun-Jen Chang, Department of Kinesiology, Health and Leisure Studies, National University of Kaohsiung, Kaohsiung, Taiwan. No. 700, Kaohsiung University Road, Nanzih District, Kaohsiung city, Taiwan. Phone: +886-7-5916679; Fax: +886-7-5919264; E-mail: changsj1104@gmail.com; or Wei-Ting Liao, Department of Biotechnology, College of Life Science, Kaohsiung Medical University, Kaohsiung, Taiwan. Phone: +886-7-3121101 ext 2791; Fax: +886-7-3125339; E-mail: wtliao@kmu.edu.tw.



Supplementary figure 1. The Manhattan plot displays the p-values which were estimated by chi-square test from 753 gout patients and 2543 normal controls in a non-matched design. A total of 37 SNPs revealed significant associations with gout disease ($p < 10^{-7}$).