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第三十屆生物醫學聯合學術年會 投稿摘要表格 (正本)

Association of Polymorphisms on Scaffolding Protein Encoding Gene *Caveolin-1* with Gastric Cancer in Taiwan

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Backgrounds: Gastric cancer is one of the leading causes of tumor-related death worldwide, for which the prevalence and mortality rates are very high in developed countries. Caveolin-1 (*CAVI*) is the main protein in the caveolin family and plays a role in tumorigenesis signaling. The contribution of *CAVI* genetic variants to gastric cancer is still largely unknown. In the present study, we aimed to investigate the role of *CAVI* genotypes in gastric cancer risk. **Materials and Methods:** We recruited 358 gastric patients and 358 cancer-free controls for *CAVI* genotyping analysis. Six single-nucleotide polymorphisms (SNPs) of *CAVI*, C521A (rs1997623), G14713A (rs3807987), G21985A (12672038), T28608A (rs3757733), T29107A (rs7804372), and G32124A (rs3807992), were genotyped by the polymerase chain reaction-restriction fragment length polymorphism method. **Results:** There was a significant difference between the gastric cancer and control groups in the genotypic frequency distribution of the *CAVI* G14713A genotypes ($p=1.24 \times 10^{-5}$), with those carrying the A allele having a higher risk for gastric cancer compared to those with the GG genotype ($p=0.0001$). **Conclusion:** Our findings suggested that *CAVI* genotype may determine the individual susceptibility to gastric cancer, and that the *CAVI* G14713A genotype may serve as a novel biomarker for early detection and prediction of gastric cancer.

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