

投稿學會：	收件編號：	分類編號：
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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)

A Novel Promoter Polymorphism on *Interleukin-10* was Associated with Taiwan Lung Cancer Risk, especially among Males and Smokers

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Backgrounds: Interleukin-10 (*IL-10*) is an immunosuppressive cytokine which involved in carcinogenesis via immune escape. The study aimed at evaluating the contribution of *IL-10* promoter A-1082G (rs1800896), T-819C (rs3021097), A-592C (rs1800872) genetic polymorphisms to the risk of lung cancer in Taiwan. **Materials and Methods:** Associations of three *IL-10* polymorphic genotypes with lung cancer risk were investigated among 358 lung cancer patients and 716 age- and gender matched healthy controls. In addition, the genetic-lifestyle interaction was also examined. **Results:** The results showed that the percentages of TT, TC and CC for *IL-10* T-819C genotypes were differentially represented as 59.2%, 35.8% and 5.0% in the lung cancer patient group and 52.0%, 37.0% and 11.0% in the non-cancer control group, respectively (p for trend=0.0025). The CC genotype carriers were of lower risk for lung cancer (odds ratio=0.4, 95% confidence interval=0.23-0.69, $p=0.0005$). We have further stratified the populations by genders and smoking behaviors and the results showed that the *IL-10* T-819C genotype conducted a protective effect on lung cancer susceptibility which was obvious among males and smokers ($p=0.0003$ and 0.0004, respectively). **Conclusion:** The CC and TC genotypes of *IL-10* T-819C compared to the TT genotype may have a protective effect on lung cancer risk in Taiwan, particularly among males and smokers.

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