EGF in silkworm system was designed. The strategies for gene cloning, expression vector construction, gene transfer as well as other analytical methods to confirm the gene integration and gene expression will be discussed

F813 Lack of Association between Pro-inflammatory Genotypes of the Interleukin 1(IL-1B -31 T+ and IL-1RN\*2/2) and Gastric Cancer

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Gastric cancer is one of the most common malignant diseases worldwide. Recently El-Omar et al.(Nature, 404: 398-402, 2000) reported that pro-inflammatory genotypes of the interleukin 1 loci (IL-1B -31 T+ and IL-1RN\*2/\*2) were associated with a significantly increased risk of a chronic hypochlorhydric response to Helicobactor infection and gastric cancer. pylori presumably by altering IL-llevels in the stomach. In the present study, we tested an association between IL-1B TATA promoter and IL-1RN intron 2 VNTR polymorphisms and gastric cancer in 102 gastric patients and 101 healthy controls. The frequencies of IL-1B -31C allele were 0.53 and 0.49, and T allele were 0.47 and 0.51 in cases and controls, respectively. The frequency of IL-1B 31/TT was decreased in cases (22.5%: 23/102) compared with controls (24.8%: 25/101), and was more frequent than in the Caucasian populations (10.7%: 46/429). When the IL-1B CC genotype was used as the reference group, both the CT and TT genotypes were not associated with an increased risk (OR = 0.67, 95% CI = 0.34-1.31; OR = 0.67, 95% CI = 0.31-1.48, respectively). The IL-1RN\*2 genotype was less frequent in Korean (5.4%: 11/202) than

(26.9%: 231/858) Caucasian IL-1RN\*2 was not a risk genotype for gastric cancer (OR = 1.14, 95% CI = 0.59-2.20). In conclusion, our study did not of previous results support the indicating that IL-1B investigations -31T/*IL*-1RN\*2 polymorphisms were associated with an increased risk of gastric

**E814** SUMO-1 modification of ataxin-1 is mediated by SUMO motif and enhanced by expanded polyglutamine tract

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Spinocerebellar ataxia type 1 (SCA1) is an neurodegenerative autosomal dominant characterized by ataxia disease progressive motor deterioration. SCA1 is caused by expansion of polyglutamine tract in its gene product, ataxin-1. Using immunofluorescence microscopy, we have found that ataxin-1 is colocalized with the ubiquitin-like modifier protein-1 small (SUMO-1) in transfected HeLa cells. Interestingly, the strength of the interaction between ataxin-1 and SUMO-1 influenced the length by the polyglutamine tract in the ataxin-1; stronger interaction was observed in mutant ataxin-1 with longer polyglutamine tract. Yeast two hybrid experiments showed that SUMO-1 interacts with N-terminus region (a.a.1-a.a.196) including a SUMO motif, hinting that ataxin-1 is modified by SUMO-1. Taken together, therefore, our results suggest that SUMO-1 modification of ataxin-1 might be involved in SCA1 pathogenesis.