

## 4<sup>th</sup> International Conference and Exhibition on Immunology

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## Mutational analysis of DNAse I gene in Pakistani SLE patients

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Systemic lupus erythematosus is an autoimmune disease which is characterized by the production of multiple antibodies. In SLE, autoantibodies react with self antigens to form immune complexes that get deposited on the tissue, resulting in inflammation and ulitmately bring about the symptoms of lupus. *DNASE I* gene mutations are found to be associated with SLE patients in different populations but this is the first study to be carried out on Pakistani SLE patients. A total of forty-two Pakistani SLE patients were included in this study, all fulfilling the ACR criteria. Age and sex matched healthy controls were also included. The first step was blood sample collection which was followed by DNA isolation. Later DNA was amplified by step down PCR technique to make the results reliable and thus got the band of interest that was of 165 bp. Amplified product was extracted and sequenced by Sanger dideoxy method. Bioinformatics was applied and multiple mutations were observed in *DNASE I* gene Exon 9.

## **Biography**

Nageen Hussain has completed her PhD from University of the Punjab, Lahore-Pakistan. She is working as an Assistant Professor in the MMG department, University of the Punjab, Lahore-Pakistan. She has published more than 19 papers in reputed journals and has been serving as an Editorial Board Member of reputed journals. In 2014, she got the best poster award two times. She has organized number of workshops and conferences. Her field of interest is immunogenetics.

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