

**DEPINDER KAUR KHAIRA (Lilly)**  
**Master's in Biomedical Engineering**

**WORK EXPERIENCE:**

**DNA Profiling Lab,**  
**Central Forensic Science Laboratory,**  
**Central Bureau of Investigation, Delhi, India**  
Intern- March 2009 to July 2009

Activities performed: **Individualization through 15 fluorescent labeled Short Tandem Repeat Typing in contaminated/mixed samples**

**Other techniques:** DNA extraction using BIOROBOT EZ1 from mixed blood samples, agarose gel electrophoresis & quantification of DNA, amplification of STR markers, separation and detection of STR amplicons using Multi-capillary ABI 3100 system.

**TECHNICAL PROJECTS:**

- ❖ Role of Heat Shock Protein70 (HSP70) in Buccal Epithelial Cells under different stress conditions.

**Objectives:** To study the induction of heat shock protein70 (HSP70) in buccal epithelial cells and KB Cell Line under conditions like heat, cold, alcohol, smoking and beetle nut chewing and quantitative and qualitative analysis of induced HSP70 using ELISA and Western Blotting.

- ❖ Electro Spun Nanofibrous Soy Protein Scaffolds for Tissue Engineering and Regenerative Medicine.

**Objectives:** To study electrospraying of the soy protein scaffolds and observing the effect of buffers like NaOH on the degradation of the scaffold using SDS PAGE and Gradient Gels. Examining the up regulation of genes in cells growing on scaffold.