**Presentation 12**

**Evaluation of Gel Electrophoresis**

**Materials:**

* Ruler, pen
* Electrophoresis gel with DNA band patterns
* DNA Marker in the gel with known lenth of DNA fragments
* Log paper

**Performance:**

1. Step: Measure precisly the migration distances of marker DNA fragments in mm with the ruler from the wells to the middle of DNA bands.
2. Prepare a value table with the values for a calibration line with the migration distances (mm) and the logarithm of kown DNA fragment lengths of the marker.
3. Step: Produce the calibration line  
   - X-axes: log Basepairs (Bp)  
   - Y-axes: migration distance (mm)
4. Step: Estimate the DNA lengths of unknown fragments of the murderer.