Figure 1. **DNA Pap staining analysis. (A) (B) (C) (D)**

**Figure 2. Ex**pert **G**uided Data **C**leaning and **R**econstructio**n** (**ExGCRn**) work flow

**DNA Index (D.I.) values collected from a patient sample was processed and measurement for each arbitrarily created variables were produced**

**Figure 3. (A) Density plot of D.I. values from clinical samples**

**Figure 4. Boxplot of available variables of three types of clinical defined samples. OSCC: OLK:, and Normal**

**Figure 5. Model fitting assessment**