# Genetic Lab report #1

---

Shahid Iqbal Professor Gotesman

02/19/19 Genetics Lab

**Abstract**

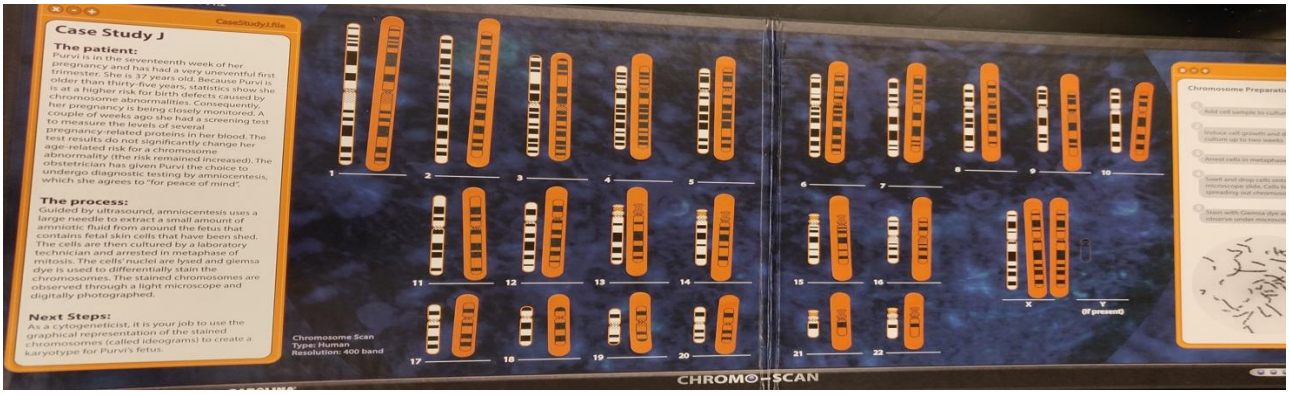
This paper looks at the study of Chromosomal Abnormalities.. We studied chromosomes in depth to find out which pair of chromosome lead to disease like Down Syndrome or Trisomy.

**Introduction**

There are 23 pairs of chromosomes in Human being. Sometimes an extra or missing ,or irregular portion of chromosomal DNA can lead to intellectual disability, autism, and attention deficit or simply known as Down Syndrome. Sometimes this abnormalities can cause of error in meiosis, mitosis, maternal age, or environment.

Method

We performed Karyotypes test. We also use Chart Chromo-scan to identify the abnormalities




Result

Under Karytype test we were able to locate the abnormalities in 23 third chromosomes or also known as sex determine chromosomes. Patient has 3 xxx chromosomes .This indicated that a female patients has Triple X syndrome or also known as Trisomy X.

**Discussion**

Trisomy X is a sex chromosome abnormalities mostly common in female occurs in presence of an extra x chromosome. Around 10% of Trisomy X patients were diagnosed. Trisomy X commonly occurs in result of nondisjunction during meiosis. The individual with Trisomy X physical Features include hypotonia, epicanthal fold,tall stature, and clinodactyly

Reference List:

Orphanet J Rare Dis. 2010 May : A Review of trisomy X (47,xxx) 11;5:8. doi: 10.1186/1750-1172-5-8.Retrieved from Department of Pediatrics, University of Colorado Denver School of Medicine