

Aneuploidy**Polyploidy****Down's
syndrome****Klinefelter's
syndrome****Turner's
Syndrome**

Sl No	Characteristic features	Chromosomal Disorder/condition
1	Failure of segregation of chromosomes during cell division leading to loss or gain of a chromosome	
2	Failure of cell division after telophase stage of cell division leading to increase in the whole set of chromosomes. Often seen in plants.	
3	Caused by trisomy of chromosome number 21, affected individuals are short statured, small round head, furrowed tongue, partially open mouth, characteristic palm crease, retarded physical, mental, psychomotor development	
4	Additional copy of X chromosome resulting in a karyotype of 47, XXY, individual has overall masculine development, however gynaecomastia is also expressed. Sterile	
5	Absence of one X chromosome resulting in a karyotype of 45, XO. Individual has overall feminine development, however, ovaries are rudimentary, lack of secondary sexual characters. Sterile	