## Chapter 15: Chromosomal Abnormalities

- Define:
  - nondisjunction
  - polyploidy
  - aneupoidy
  - trisomy
  - monosomy

#### Describe each of the aneuploidies that can be found in an appreciable number of human adults (chromosomal abnormality, common name of the syndrome if it has one, phenotypes)

#### Draw an inversion, a deletion, a duplication, and a reciprocal translocation.

#### 4. Describe trinucleotide repeat disorders.

- Abnormalities in chromosomal number
  - A. How does it happen? nondisjunction
    - nondisjunction mistake in cell division where chromosomes do not separate properly in anaphase
    - usually in moiosis, although in mitosis occasionally; in moiosis, can occur in anaphase I or II
       polyploidy complete extra sets (3n, etc.) fatal in humans, most animals
    - a neuroloidy missing one cony or have an extra cony of a single chromosome
      - an expressed y missing one copy or have an extra copy of a single chromosome
        - three copies of a chromosome in your somatic cells: trisomy
        - one copy of a chromosome in your somatic cells: monosomy
        - most trisomics and monosomics are lethal well before birth in humans; exceptions covered below
        - generally, autosomal anouploids tend to be spontaneously aborted
          - over 1/5 of human pregnancies are lost spontaneously after implantation (probably closer to 1/3).
          - chromosomal abnormalities are the leading known cause of pregnancy loss
          - data indicate that minimum 10-15% of conceptions have a chromosomal abnormality
          - at least 95% of these conceptions spontaneously abort (often without being noticed)
  - B. aneuploidy in human sex chromosomes
    - X\_ female (Turner syndrome)
    - short stature; sterile (immature sex organs); often reduced mental abilities; about 1 in 2500 human female births
    - XXY male (Klinefelter syndrome).
      - often not detected until puberty, when female body characteristics develop; sterile; sometimes reduced mental
        abilities; testesterone shots can be used as a partial treatment; about 1 in 500 human male births
    - 3. XYY male (XYY syndrome)
      - usually tall, with heavy acne; some correlation with mild mental retardation and with aggressiveness; usually still
        fertile; about 1 in 1000 human male births
    - 4. XXX female (triple X syndrome)
      - usually just like XX females, except for having 2 Barr bodies in somatic cells; HOWEVER, more likely to be sterile, and if fertile, more likely to have XXY and XXX children; about 1 in 1000 human female births
  - C. aneuploidy in human autosomes
    - 1. autosomic monosomy appears to be invariably fatal, usually very early in pregnancy
    - most autosomic trisomy is fatal, but sometimes individuals trisomic for autosomes 13, 15, 18, 21, or 22 survive to birth and even beyond
      - chromosome number reflects size, bigger number = smaller size, and usually fewer genes.
      - extra 13, 15, or 18 leads to multiple defects and usually death well before 1 year of age
      - extra 22 is much like extra 21 (Down syndrome, covered below), but usually more severe, with shorter life expectancy

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David G. Myers, Richard O. Straub

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