

## All About Sexual Differentiation & Chromosomal Mutations

Whats the difference between heterogametic and homogametic?

Briefly describe the differentiation of the reproductive tract:

Mullerian ducts form the:

Wolffian ducts form the:

What is the difference between primary and secondary sexual differentiation?

Describe male differentiation, include terms such as SRY, TDF, PARS, and MSY.

What are the two theories describing why birds take 5-6 days of incubation before differentiation?

Describe Klinefelter and Turner syndrome. What is the animal version for each? Which is monosomy and which is trisomy? (I would know the karyotypes for these).

Describe dosage compensation, X-inactivation, and Barr body formation.

What is the Lyon hypothesis?

What is TSD in many reptiles? (I would also know how to read these graphs).

What is aneuploidy? What are the two categories of it?

Brain dump: down syndrome, DSCR1, and VEGFA

Compare Euploidy and polyploidy? What are the 2 subcategories of polyploidy? Describe them:

What is autotetraploid, and what role does colchicine play?

Give some horticulture examples of triploid and tetraploid species.

Compare and contrast: allotetraploid and amphidiploid.

