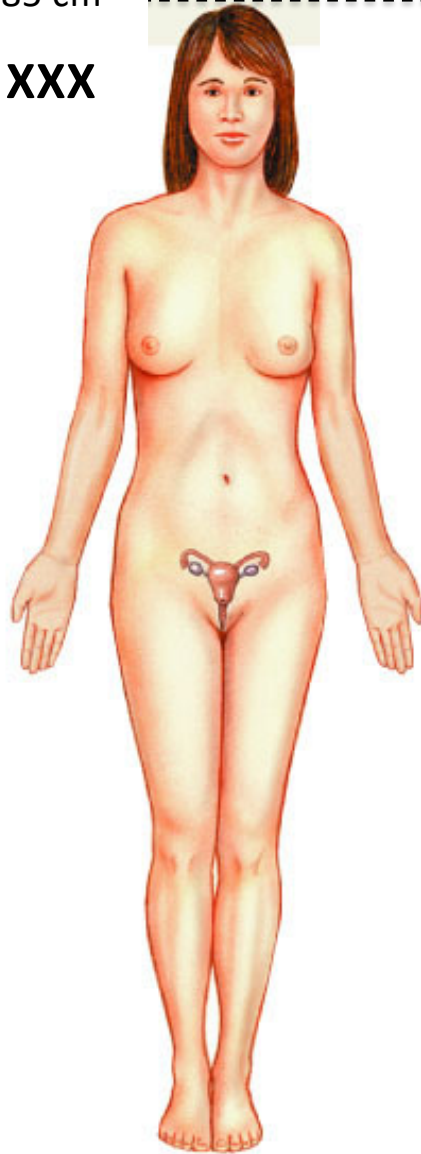


185 cm
47, XXX



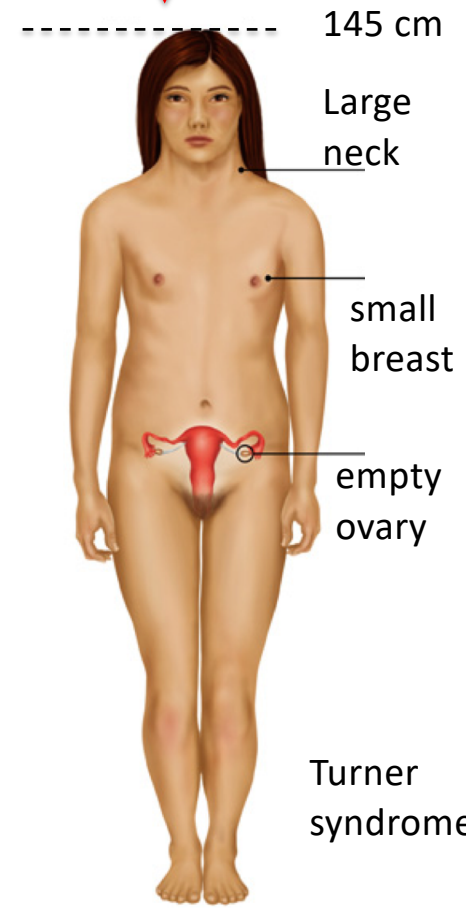
20 cm

46, XX



45, X

20 cm



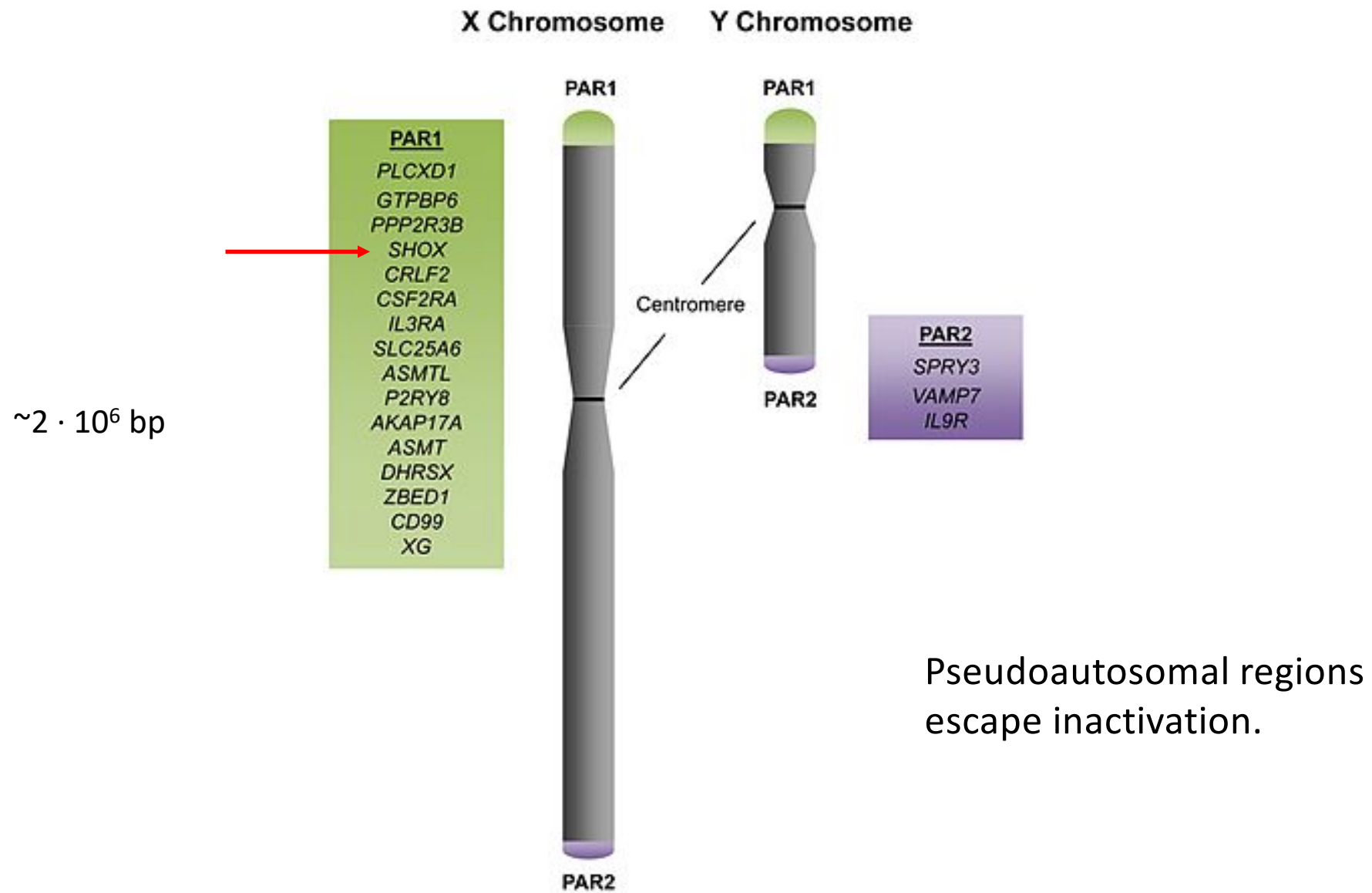
145 cm

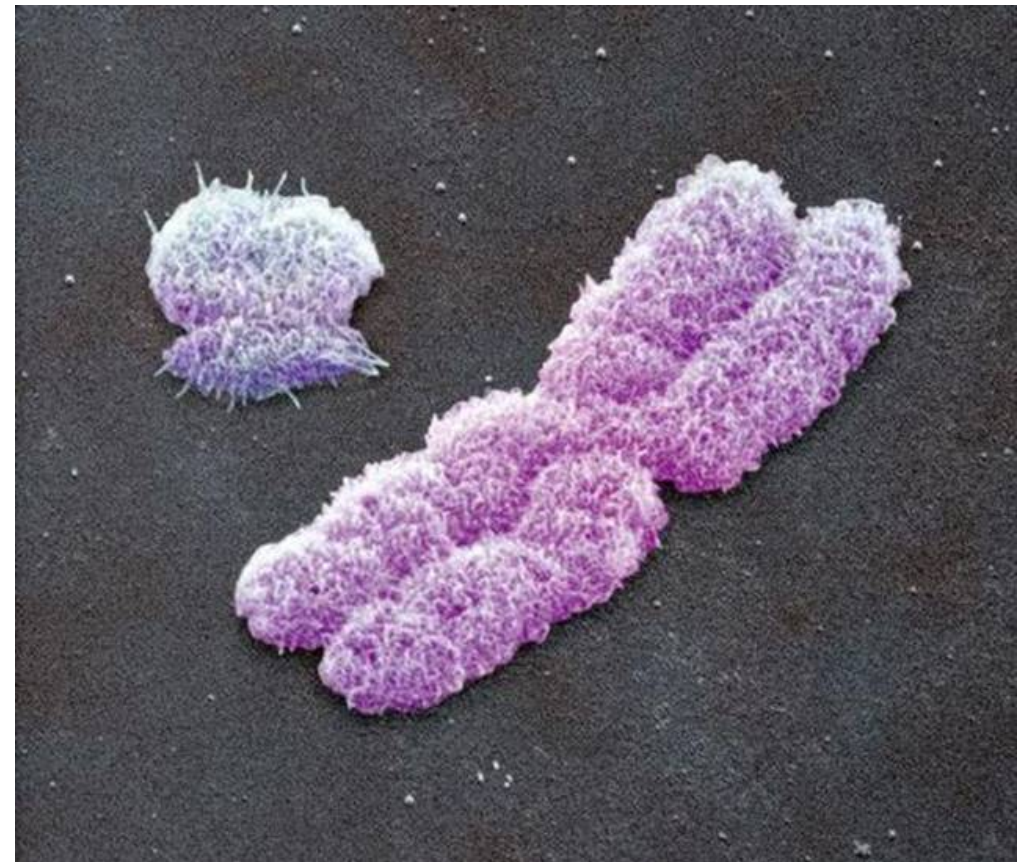
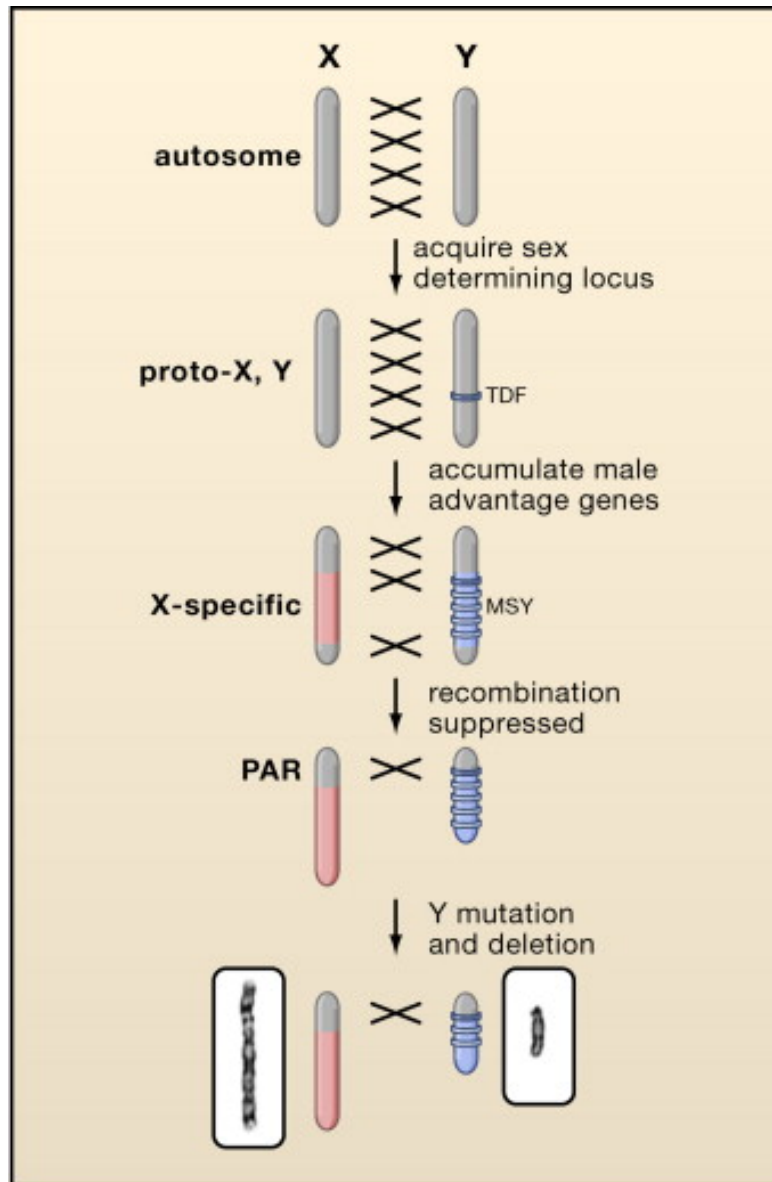
Large
neck

small
breast

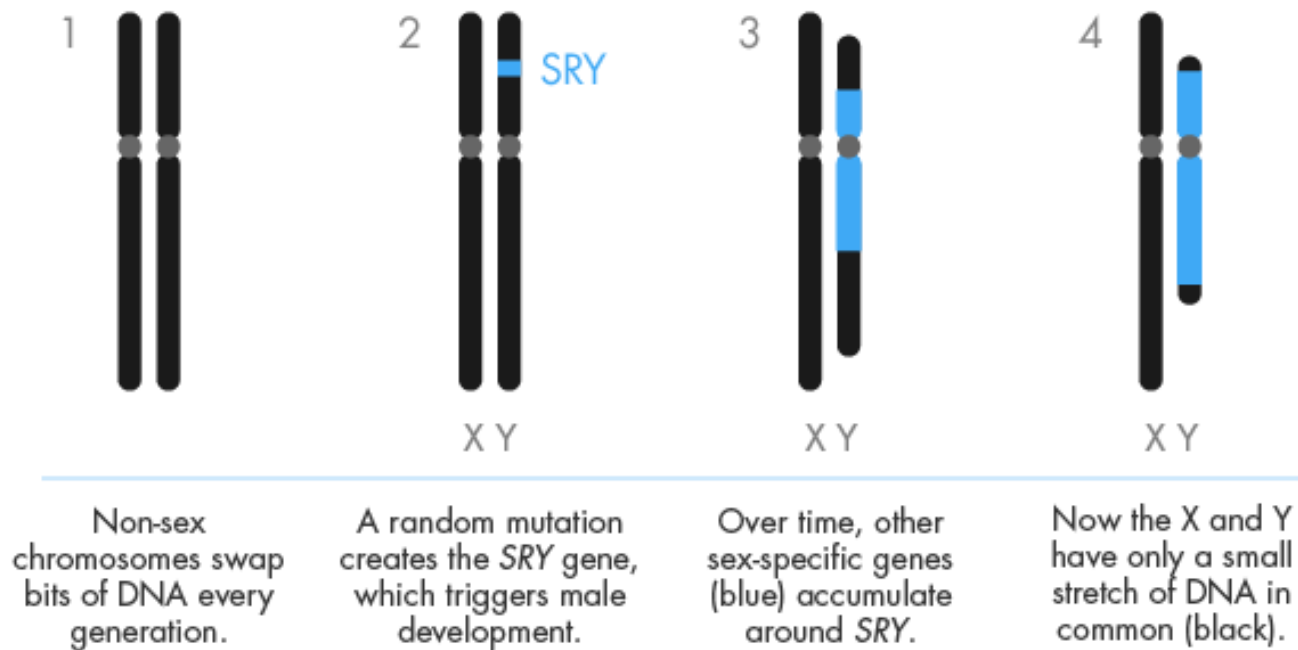
empty
ovary

Turner
syndrome



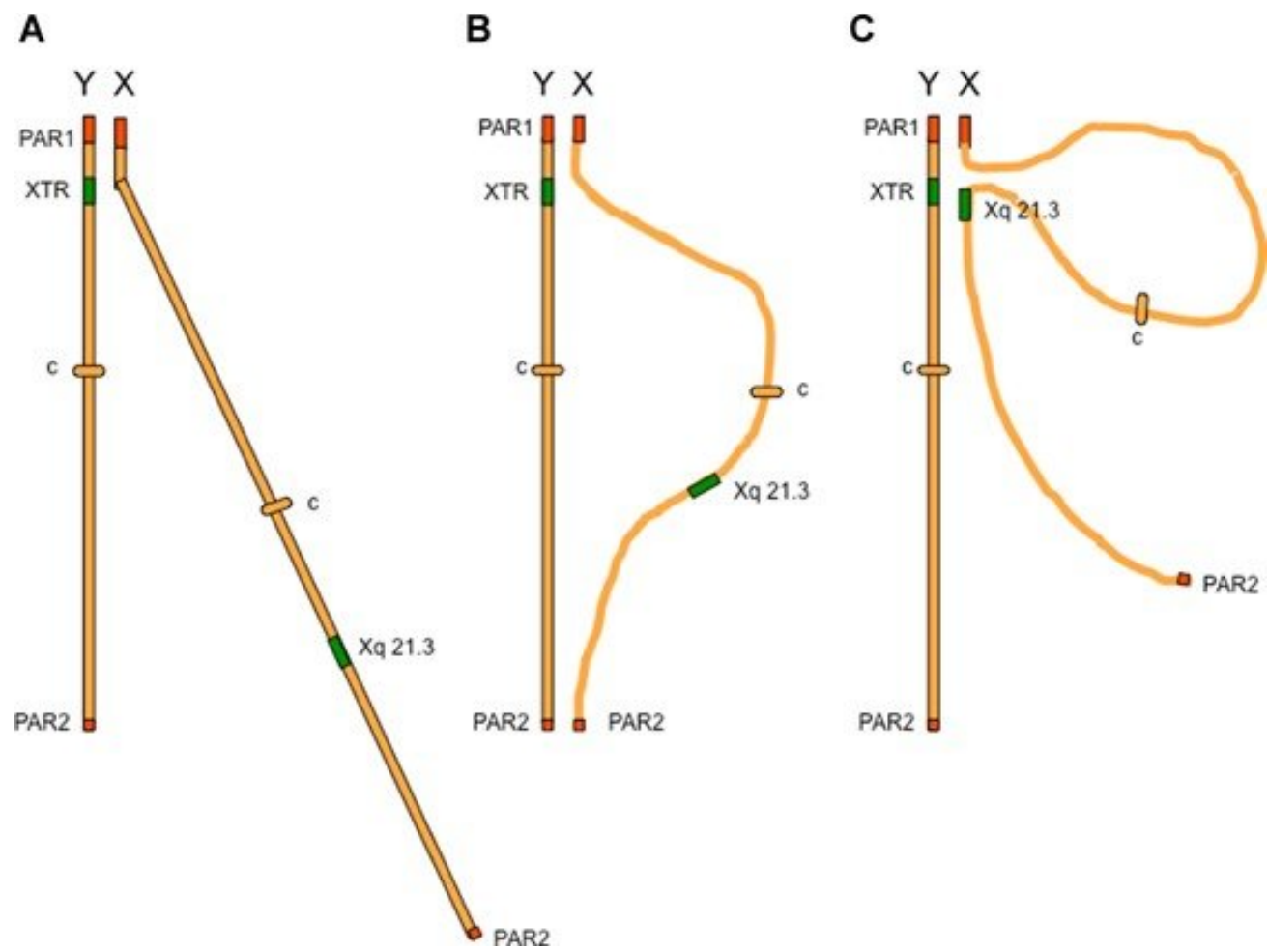


WHY THE Y SHRINKS

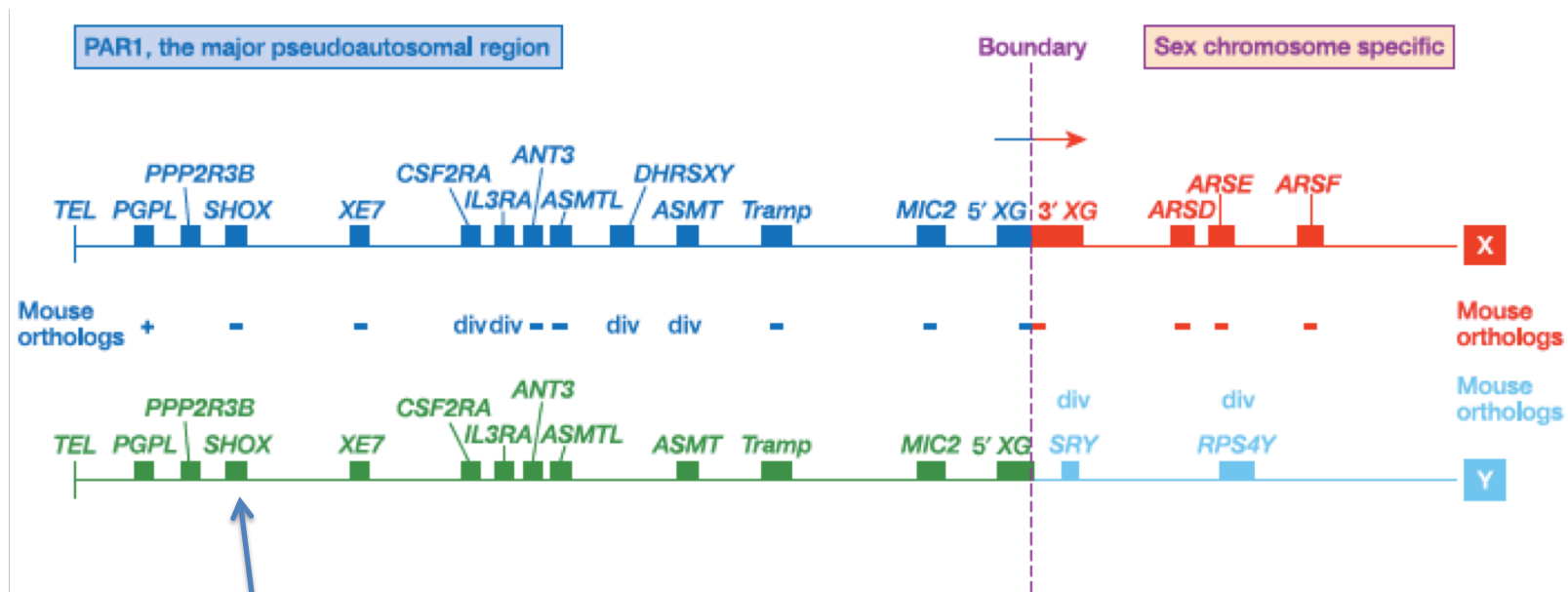


The X and Y chromosomes began life as a matched set of non-sex chromosomes. As sex-specific genes began clustering on the Y chromosome, pieces of the Y flipped around, preventing the X and Y from pairing. No longer able to swap material with the X, the Y couldn't repair itself and began to lose parts.

Male meiosis



Organization and evolutionary instability of the major human pseudoautosomal region (PAR1).

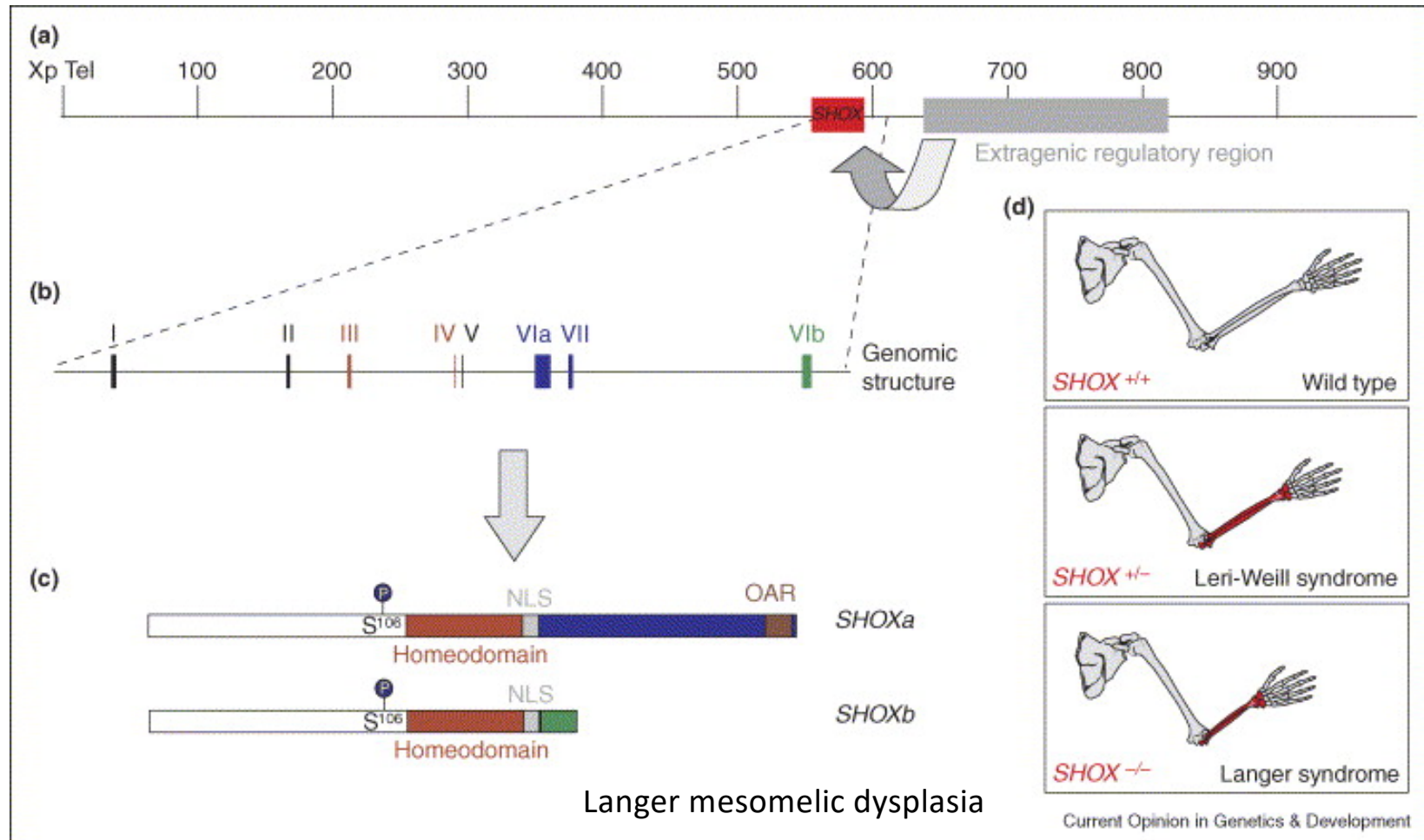


SHOX gene : gene determining body eight

45, X0 → 145 cm

46, XX → 165 cm

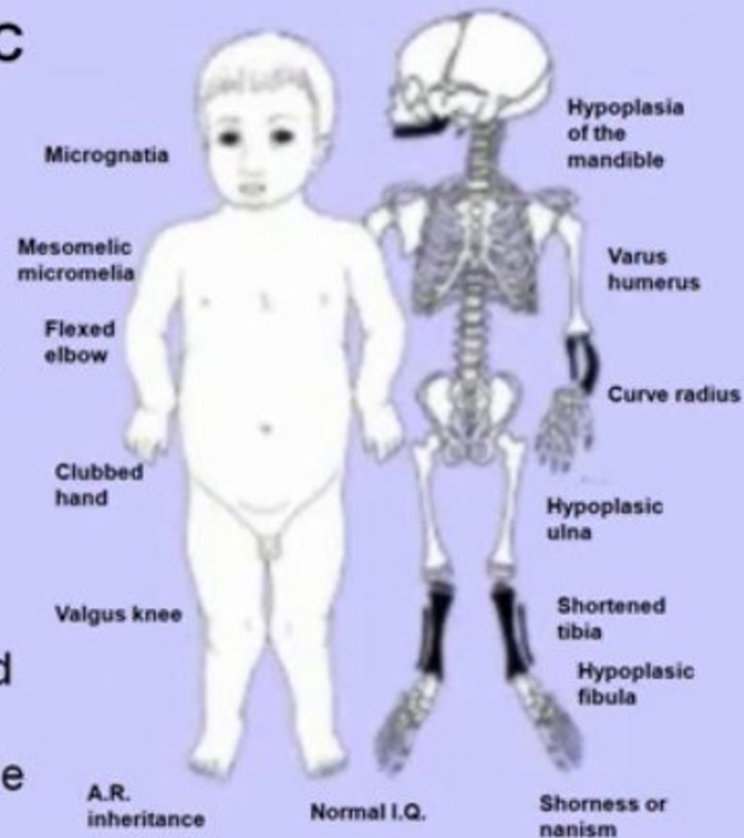
47, XXX → 185 cm



<https://www.dailymotion.com/video/x17hzxl>

LANGER MESOMELIC DYSPLASIA (LMD)

Langer Mesomelic Dysplasia (LMD) is a rare subtype of mesomelic nanism characterized by the shortening of the middle segment of the limbs, aplasia or hypoplasia of the ulna and fibula, and variable hypoplasia of the mandible

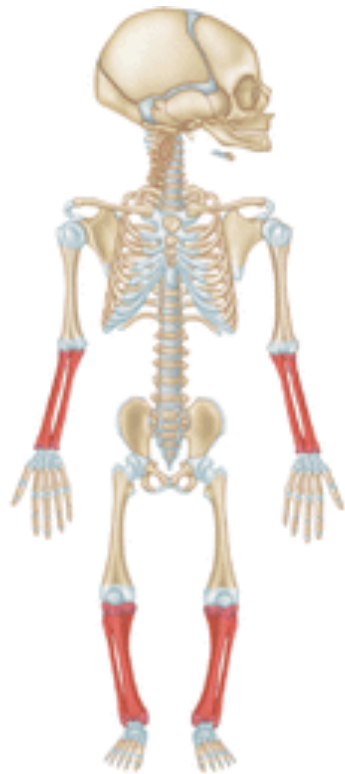


Modified by www.fondazioneacanepa.com

Mesomelic dysplasia: Langer type



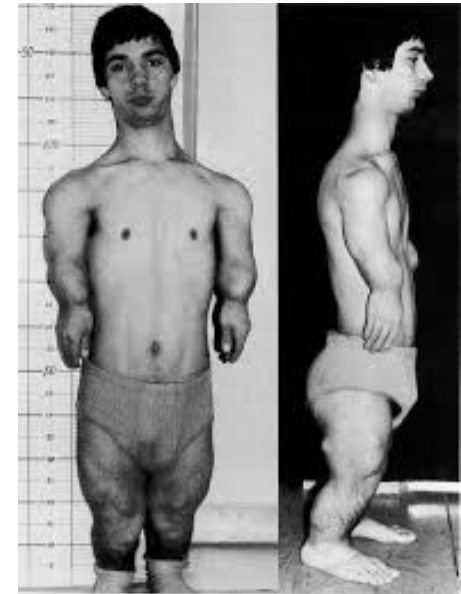
Rhizomelic



Mesomelic



Acromelic



Two patients with Langer type mesomelic dysplasia are reported. This is one of the rare but well differentiated and easily recognizable mesomelic dysplasias.

