

# awanish singh dk college

classmate

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## Karyotype -

It is the morphological feature of chromo i.e. Number, Type, size, Length of arm, Position of centromere etc.

## Idiogram -

It is the graphical representation of metaphasic chromosome of an organism.

### Polytene chromosome

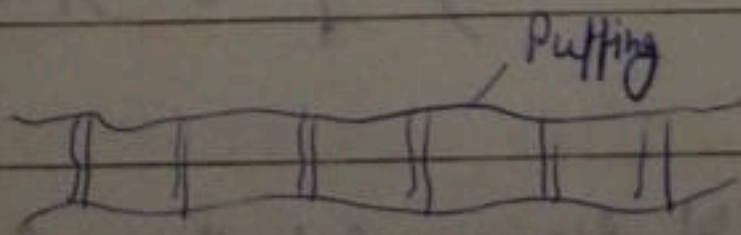
2000  $\mu$  (2mm)

- Balbiani (1881) discovered it.
- Seen in interphase
- Found in salivary gland cell (somatic cell) of chromosome larva of *Drosophila*

- Having bands of light & dark  
Heterochromatin Euchromatin

They swell at places & forms

Balbani Ring (site of m-RNA formation)



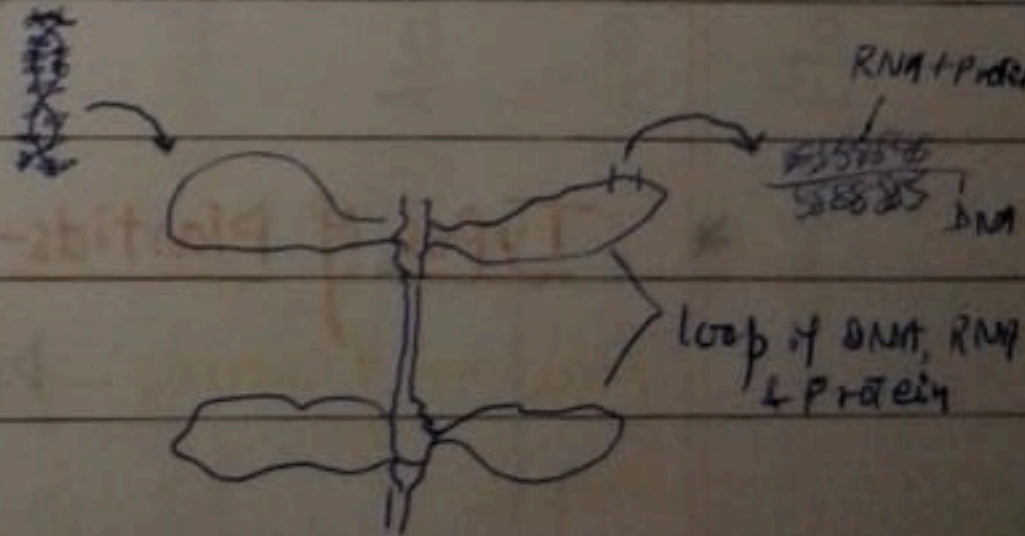
This chromo is related with metamorphosis & moulting in insect (as it is related with moulting hormone (Ecdyson))

### Lampbrush chromosome

6000  $\mu$  (6mm)

- Flemming (1882) discovered it
- Diplotene stage
- Found in oocytes (germinal cells) of vertebrate (some mammals)

- Bear lateral loop (site of Transcription & Translation)



Larger than polytene

It is related with vitellogenesis (yolk formation)