

A large, stylized handprint is centered on the page. The handprint is filled with a pattern of human chromosomes, representing a karyotype. The chromosomes are arranged in a way that mimics the shape of a hand, with the thumb at the top left and the pinky at the top right. The background is a dark, textured grey. In the center of the handprint, there is a large, white, irregularly shaped area containing the title text.

KARYOTYPING

Gene  ploreTM

"Exploring the Spiral of life"

KARYOTYPING is the process of pairing and ordering all the chromosomes of an organism, thus providing a genome-wide snapshot of an individual's chromosomes.

Prenatal Karyotyping

Why?

- Family history of chromosomal abnormalities
- Advance maternal age (AMA)
- Abnormal USG findings

Couple Karyotyping

When?

Postnatal Karyotyping

Who?

Patients with Developmental delay, Facial dysmorphism, Suspected Down's Syndrome, Klinefelter syndrome, Trisomy 18 etc.



Bone Marrow Karyotyping

Karyotyping of Bonemarrow cells helps in prognosis of primary myelodysplastic disease

Karyotyping for Product Of Conception (POC)

Sample for Karyotyping

Peripheral Blood
Amniotic Fluid
Chorionic Villi
Product of Conception
Bone Marrow

Container type (volume required)

Heparin Green top vacutainer (2 to 3 mL)
In two 15 mL sterile tubes (30 mL)
Sterile 15 mL Tube containing Media (upto 100 mg)
In Sterile 15 mL tube with Normal Saline (upto 100 mg)
Heparin Green top vacutainer (2 to 3 mL)

TAT

07 days
21 days
21 days
21 days
05 days



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