

GET IN TOUCH

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HO

Embryo Screening for Aneuploidy

SOURCE :

1. <http://www.givf.com/geneticservices/aneuploidyscreening.shtml>

2. <http://www.preimplantationgeneticdiagnosis.eu/pgd/advantages-of-pgd-for-aneuploidy-screening.aspx>

Aneuploidy is the second major category of chromosome mutations in which **chromosome number is abnormal**. Aneuploidy is an error in cell division that results in the "daughter" cells having the wrong number of chromosomes. In some cases, there is, a missing chromosome, while in others, an extra. The most common chromosome abnormalities are trisomies (three copies of a chromosome for chromosomes 13, 15, 16, 18, 21, or 22) or monosomy (one copy of a chromosome) abnormalities of the sex chromosomes.



3 out of 4
embryos by IVF
are not capable of
producing a live child

Boon

- ✘ Improves Implantation rates
- ✘ Reduces spontaneous abortion
- ✘ Increases ongoing pregnancy rates



Main factor for
embryo to make an
abnormal baby is
Aneuploidy

MICROLABS have entirely a new approach to sequencing by combining simple chemistry and semiconductor technology — translating chemical signals into digital information. Whole-genome shotgun sequencing offers important new opportunities for the discovery and characterization of human chromosomes.

Next Generation Sequencing

sample INPUT

Interrogate precious research samples using only 10 ng of DNA or 5 ng of RNA

FASTer

To get answers faster —with increased throughput, higher accuracy, and the simplest workflow from sample preparation through to data analysis.



SIMPLE

Affordable whole-genome sequencing enables to increase discriminatory power and accuracy while using a single technology