

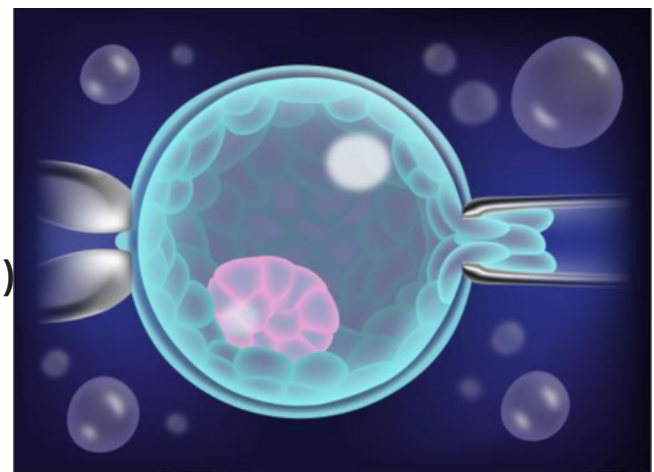
PGT-A: WHAT SHOULD WE KNOW ABOUT?!



By **NEHAL ADEL, PH.D.**

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The term PGT-A refers to PGT (Preimplantation genetic testing) involves the analysis of the DNA from oocytes or in vitro fertilized embryos and -A (Aneuploidy) which describes the condition of having an abnormal number of chromosomes.



PGT-A must be carried out by a collaboration between a very well-trained professional IVF team performing the embryo biopsy technique and an expert dedicated genetics team reporting the diagnosis confirmed by a genetics specialist.



PGT-A METHODOLOGY: HISTORICAL TO MODERN TECHNIQUES

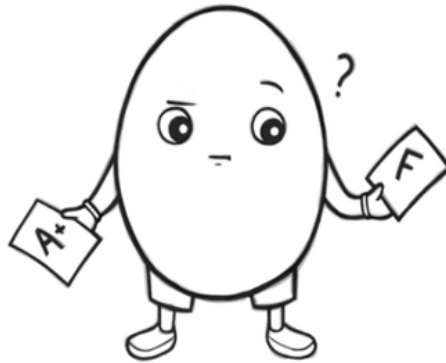
Over the past decades, a variety of technology has evolved, and the original FISH/PCR methods are now replaced by more accurate and precise techniques that allow the analysis of whole 24 chromosomes.

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Astonishing evolution in the methodology of DNA analysis depends on initial DNA amplification (whole genome amplification, WGA) making the mission more possible.

NOW EUPLOIDY DELIVERED EASIER!!



The bright side of WGA is facilitating the way for the detection and selection of euploid embryos.

WGA can supply a template sufficient for comprehensive chromosome screening (CCS).

Therefore, the genetics specialist can easily and much more precisely report the embryo status regarding euploidy.