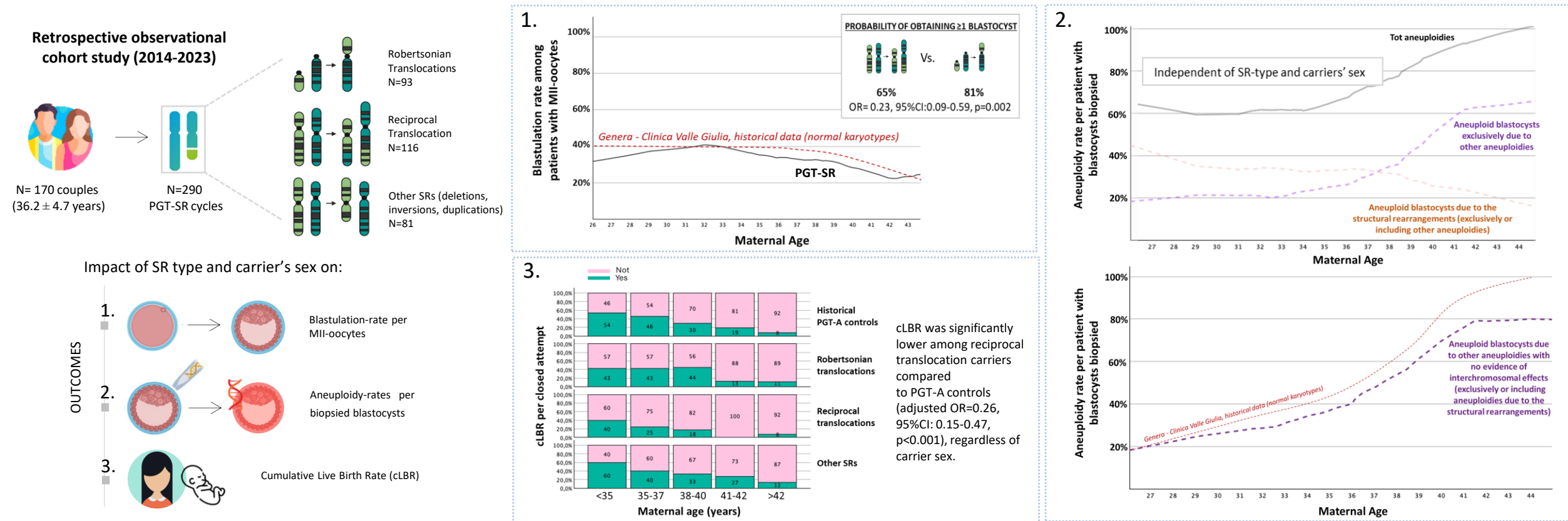


# Impact of structural rearrangements in parental karyotypes on embryo competence: an analysis of 290 PGT-SR cycles

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**STUDY QUESTION:** What is the impact of structural rearrangements (SR) in parental karyotypes on blastocyst development and aneuploidy-rates?



**CONCLUSIONS:** Parental SRs, especially reciprocal translocations, negatively impact blastulation rates across maternal ages. While aneuploidy rates follow a typical maternal age-related trend, a significant proportion of aneuploidies are linked to the rearranged chromosomes. The reproductive prognosis remains comparable to PGT-A cycles in cases of euploid embryo transfer, but cumulative success rates are lower in reciprocal translocation carriers. These findings highlight the need for tailored counseling in couples undergoing IVF with PGT-SR.