## **Aneuploidies:** the embryo point of view

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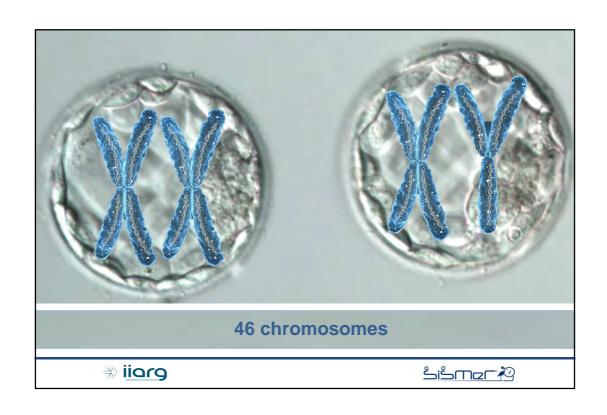
Bologna, May 8-11, 2016



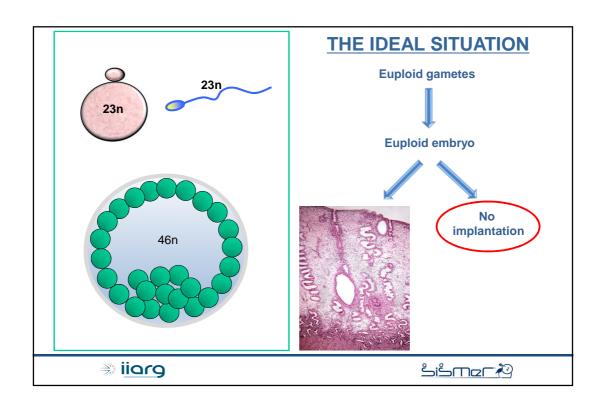
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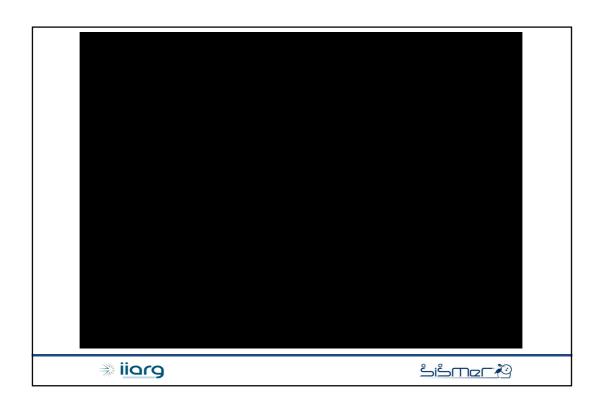


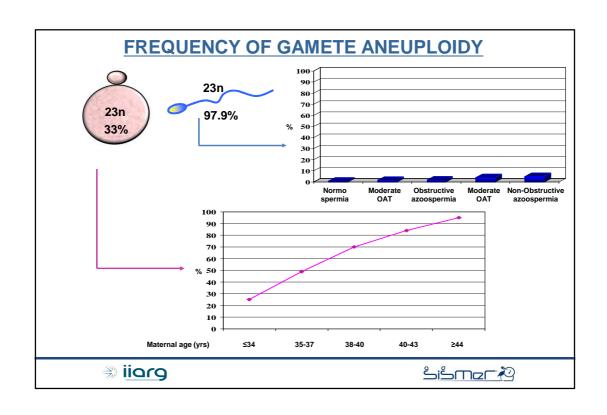


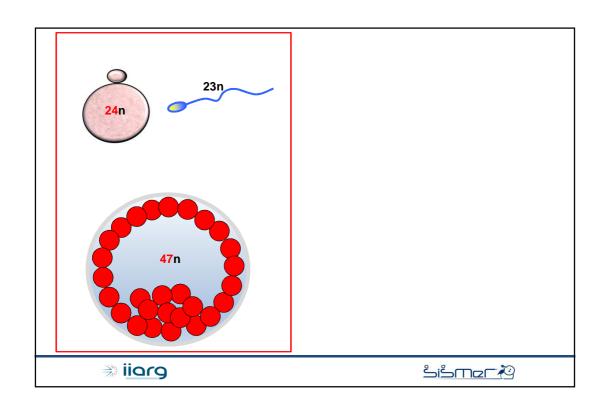


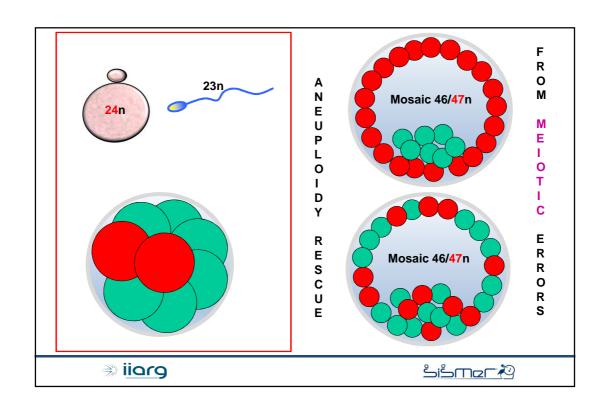


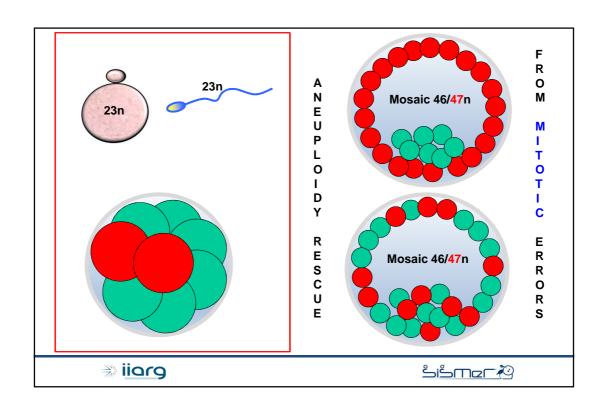












## **MOSAICISM - ANEUPLOIDY RESCUE**

The clinical consequences of mosaicism depend on 1) when during development the error occurs, and 2) on the proportion of cells that continue to propagate. At the cleavage-stage embryo, the consequences of chromosomal mosaicism are more severe then if it occurs at later stages.

## Incidence of mosaicism



from 15 to 90% at the cleavage stage from 15 to 30% at the blastocyst stage from 1 to 2% in prenatal diagnosis



a selection mechanism against mosaicism / correction of aneuploidy in the later stages of development

Taylor et al., 2014

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