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Title: Non-invasive preimplantation genetic screening using array comparative genomic hybridization on spent culture media: a proof-of-concept pilot study

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**Short title:** Non-invasive PGS on culture medium

**Non-invasive preimplantation genetic screening using array comparative genomic hybridization on spent culture media: a proof-of-concept pilot study**

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**Key message**

Ploidy evaluation on blastocyst culture medium based on array-comparative genomic hybridization seems possible. Genomic DNA can be amplified from blastocyst culture media, possibly after cell expulsion from the blastocyst into the perivitelline space and the culture medium. Culture media contamination needs to be considered, and euploid results interpreted with caution.

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