

Gamete Alerts

ICSI, Brings Hope for IVF Automation

First babies conceived with Automated Intracytoplasmic Sperm Injection

The ICSIA robot is an automated system designed to perform Intracytoplasmic Sperm Injection (ICSI) with precision, handling all key steps including pipette movement and membrane penetration using piezo pulses. Tested first on animal models with discarded human oocytes, it was later evaluated in a small clinical trial using donor oocytes. When operated, the robot achieved fertilization, blastocyst development, and euploidy rates comparable to manual ICSI performed by experienced embryologists. Notably, healthy babies were born from embryos injected by the robot, highlighting its potential for use in human IVF.

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[https://www.rbmojournal.com/article/S1472-6483\(23\)00335-8/fulltext](https://www.rbmojournal.com/article/S1472-6483(23)00335-8/fulltext)

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