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## Non-Invasive Embryo Selection Technology for IVF Applications

A patented diagnostic method that predicts embryo implantation potential by quantifying DNA-containing extracellular vesicles in embryo culture media.

### The Challenge

IVF success largely depends on selecting the embryo with the highest implantation potential. Current embryo assessment methods often lack predictive accuracy. Multiple embryo transfers increase the risk of twin pregnancies and associated complications. Fertility clinics require objective, non-invasive selection tools.

### The Solution

The technology measures DNA-containing extracellular vesicles from culture media. Embryo viability can be assessed without embryo manipulation. Implantation competency can be estimated objectively. The procedure fits seamlessly into existing IVF laboratory workflows. Clinical decision-making can be improved through biomarker-based solution.

### INVESTMENT HOOK

Embryo selection remains one of the biggest challenges in assisted reproduction. This non-invasive technology provides a novel biomarker-based solution that may significantly improve IVF success rates while reducing the risk of multiple pregnancies.

### WE ARE SEEKING FOR

#### Diagnostic Industry Partners

For assay development and market deployment.

#### Licensing Partners

For international commercialization.

### The Team

#### University of Pécs

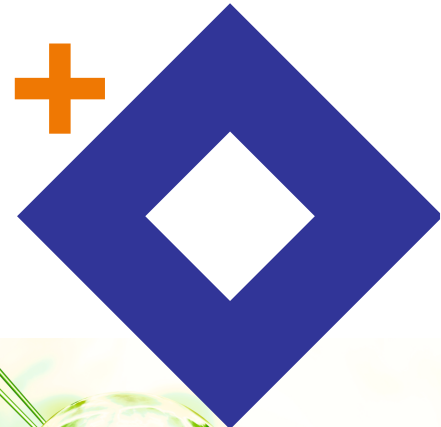
Reproductive Biology Research Group

#### Development partners

Budapest University of Technology and Economics,  
HUN-REN Centre for Energy Research

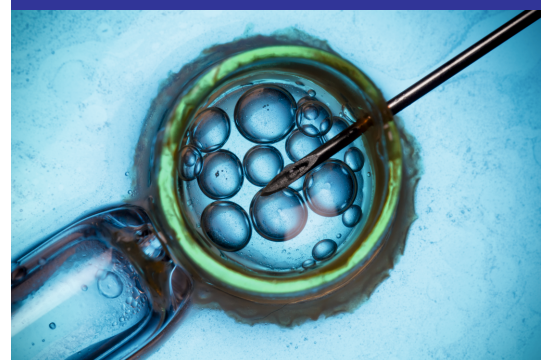


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The Embryo prepared to implant

ICSI process during IVF



TRL 5  
TECHNOLOGY  
READINESS

Global IVF  
and ART Market  
30 Billion USD

### INTELLECTUAL PROPERTY

Patent protection covering: Europe, US, Canada, Australia  
Strong international patent portfolio supporting commercialization.

### Non-Invasive Assessment

No manipulation to embryos.

### Objective Biomarker

DNA-containing extracellular vesicles provide measurable biological indicators.

### Improved IVF Outcomes

Supports informed embryo selection strategies.

### Strong Patent Position

Protected in multiple major international jurisdictions.