

In vitro Fertilization success rate prediction method

Background

In vitro fertilization (IVF) refers to procedures that assist with the fertilization of an embryo. IVF involves the collection of eggs from the ovaries and subsequent fertilization by sperm, and is carried out in a laboratory setting. Once the process is complete, the fertilized egg is transplanted into a uterus with the goal of embryo development. The entire IVF cycle usually takes two to three weeks.

The global In vitro fertilization services market size generated \$12,506 million in 2018, and is projected to reach \$25,563 million by 2026, growing at a CAGR of 9.3% from 2019 to 2026. The European IVF Market is estimated to reach \$7,447 million by 2026, growing at a CAGR of 5.4% during the analysis period. Technological advancement in IVF devices and services is the major driving factor for the growth of the IVF clinics.

Unmet Medical Need

The success of IVF depends on multiple factors, including age and the reasons for infertility. Since IVF is an expensive process, costing over \$10,000 on average, it is important for the procedure to be as efficient as possible to reduce the need for multiple IVF cycles. The Centers for Disease Control and Prevention (CDC) estimate that 12% of women in the US ages 15–44 years have difficulty becoming pregnant. The World Health Organization (WHO) indicates that more than 10% of women are infertile or experience subfertility. Fertility clinics and specialty hospitals play a crucial role in providing IVF treatments to couples seeking assistance for infertility treatments.

Technology

We aim to co-develop a mass spectrometry based technological solution

Application

Increase success rate of in vitro Fertilization

Advantages

Fast, simple and reliable test, based on the lipid biomarkers patented by CIC bioGUNE, that increases the success of embryonic implantation performed in assisted reproduction processes.

Patent Status.

Title: In vitro Fertilization success rate prediction method.

State of the Technology.

R&D

Need.

Co-Developers/Collaborators

Contact

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