

# Sperm gene expression profile as a new biomarker of male fertility

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- Improvement of effective selection of semen donors

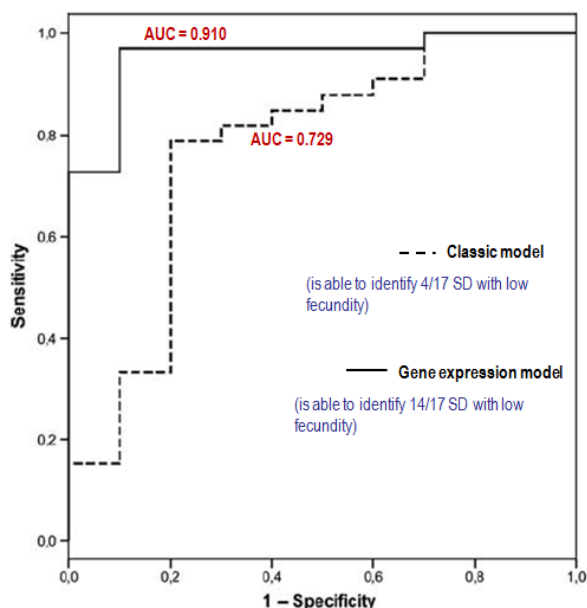
## Background

The diagnosis of couple infertility is challenged by the combination of male and female factors. Male abnormalities may contribute to couple infertility in more than half of cases. Classical semen parameters have limited power to identify abnormal sperm function. The frequency distribution of sperm concentration, motility and normal morphology shows a marked overlap in men from fertile and infertile couples. As a result, **diagnostic efficiency of semen analysis is poor, and many individuals cannot be classified either as fertile or subfertile.**

## Technology

The assessment of the sperm gene expression profile could reflect the fertilizing quality of spermatozoa and could also be more useful as a reproductive prognostic tool than the classical sperm parameters. **Gene expression profile of sperm could be useful as a biomarker that reflect the fertilizing quality of spermatozoa** and could be more informative for predicting the *in vivo*

reproductive fitness of men with normal semen parameters.



## Applications

Effective selection of semen donors, and provide realistic **information about the chances of success of conjugal IUI for couples with unexplained infertility.**

## Business Opportunity: Financing

