

**Mini-Symposium:**

**Contrivance for improving pregnancy rate in *in vitro* fertilization**

**Preface**

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The development of *in vitro* fertilization has enabled many infertile patients to obtain infants. The development of this field is very fast, and new knowledge and technique of clinical research are reported every year. In this mini review, ovarian stimulation *in vitro* fertilization, activation of eggs by sperm and modification of the endometrium by embryonic factors are discussed to improve the treatment outcome of *in vitro* fertilization. This mini review will contribute to fundamental research related to *in vitro* fertilization and daily clinical practice.