J. Mamm. Ova Res. Vol. 26, 97, 2009

Mini-Symposium:
Advanced Studies in Implantation Mechanisms

Preface

Midori YOSHIZAWA
Mini-Symposium Editor
Utsunomiya University
E-mail: midoriy@cc.utsunomiya-u.ac.jp

Recent advances in assisted reproductive technologies used to treat infertile couples have shown considerable innovation with regards to preimplantation development; in particular, development of techniques such as IVM, IVF, IVC and ICSI have considerably improved fertilization and embryo production. However, many problems involving implantation *per se* and post-implantation development still need to be addressed. For this reason, the editorial board of JMOR has commissioned this issue, entitled “Mini-symposium of Advanced Studies in Implantation Mechanisms”, with the following contributions written by experts on various relevant topics:

Imakawa *et al.* "Molecular mechanisms associated with conceptus-endometrium interactions during the peri-Implantation period in ruminants”

Matsumoto *et al.* “Differential interactions between embryo and uterus during implantation in laboratory animals”

Uchida *et al.* “Epigenetic treatment in assisted human embryo implantation”

Fujiwara *et al.* “Immune system cooperatively supports endocrine system-primed embryo implantation”

Maruyama “Therapeutic strategies for implantation failure due to endometrial dysfunction”

Azumaguchi *et al.* “Mechanism underlying the low implantation rate in patients with thin endometrium”

These reviews, covering aspects from both basic scientific and clinical research, are must-read works that will give you a better understanding of “Implantation”.