



TECHNOLOGY AVAILABLE FOR LICENSING

Protein Painting of Early Embryos

Patent Application #09/463,506

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Invention Details:

The Ped gene governs the rate at which pre-implantation embryos develop. Control of the development rate by painting Ped gene-controlling proteins on 8-cell embryos provides two distinct advantages for embryo survival:

- Faster developing embryos implant more readily onto the uterus and develop into viable offspring; and,
- Faster developing embryos have a lower degree of embryonic fragmentation; lower embryonic fragmentation rates are directly related to successful pregnancies.

Utilizing the properties of the Ped gene to govern the rate of embryo development enhances the survival rate of pre-implantation embryos, thereby leading to an increase in pregnancy rates and birth rates.

Benefits of the Invention:

The Ped gene technique increases pregnancy rates and the likelihood of viable offspring. Ped gene techniques apply across species to include rodents, domestic animals and humans.

The Bottom Line:

The Ped gene technique will allow human fertility clinics to treat infertility problems associated with poor embryonic growth by:

- 1) Increasing the rate of embryonic development;
- 2) Decreasing the rate of embryo fragmentation.

Healthier embryos are more likely to develop into viable offspring. This could hold important implications for other markets such as cattle and livestock breeding.

For More Information:

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