Exosomes as mediators of embryo-maternal communication

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A little bit of my story...

Veterinary Medicine Degree
Veterinary Medicine PhD

Posdoctoral period
In UK

Posdoctoral period
in Spain

Posdoctoral period
In France

Snooping on a private conversation:
What does the mum say to the embryo?

Exosomes

Reproductive Communication

Maternal Communication with Embryo
A few clues about my Project...

Exosomes: mediators of embryo-maternal communication

- Alterations communication
- Early Pregnancy loss
- Adult health and disease

Increase use of reproductive biotechnologies

- In Biology: Increasing our understanding of the role of exosomes in this cross-talk
- In Reproductive Biotechnologies: Improving in vitro fertilization, embryo cryopreservation and transfer
- In livestock production: Using exosomes as novel molecular markers of infertility

- A new way of communication
- Can shed microRNA and proteins to target cells and can influence or perform processes in the recipient cells.
• What are the “Exosomes” and their role in this cross talk?

• How does the female sexual hormones modulate the exosomes production?

• How do exosomes regulate fertilization and early embryo development?

Why don’t you come to see my Poster?