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2. Principal investigator and contact person

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3. Key personnel

NAME	EMAIL	RESEARCH AREA DETAILS

4. Research profile

Physiology and biotechnology of reproduction in laboratory and farm animals with special emphasis on ovarian and uterine features and embryo-maternal relationship.

5. Key technologies and tools

In vitro and *in vivo* embryo production - embryo and oocyte sperm cryopreservation - embryo transfer – hormonal assays – non-invasive imaging – ultrasonography – magnetic resonance imaging.

6. Selected publications (max. 5)

Pallares, P., Gonzalez-Bulnes, A. Non-invasive characterization of phenotypic changes during embryo development in different mouse genotypes. *Theriogenology* 2008, 70: 44–52

Pallares, P., Gonzalez-Bulnes, A. Intrauterine growth retardation in endothelial nitric oxide synthase-deficient mice is established from early stages of pregnancy. *Biology of Reproduction* 2008, 78: 1002–1006.

Pallares, P., Garcia-Fernandez, R.A., Criado, L.M., Letelier, C.A., Esteban, D., Fernandez-Toro, J.M, Flores, J.M., Gonzalez-Bulnes, A. Disruption of the endothelial nitric oxide synthase gene affects ovulation, fertilization and early embryo survival in a knockout mouse model. *Reproduction* 2008, 136: 573–579.

Pallares, P., Letelier, C.A., Gonzalez-Bulnes, A. Progress toward “in vivo virtual histology” of ovarian follicles and corpora lutea by ultrasound biomicroscopy. *Fertility and Sterility*. 2009, 91:624-626.

Pallares, P., Fernandez-Valle, M.E., Gonzalez-Bulnes, A. In vivo virtual histology of mouse embryogenesis by ultrasound biomicroscopy and magnetic resonance imaging. *Reproduction, Fertility and Development* 2009, 21:283-292.