

Horizon 2020
Marie Skłodowska Curie Actions
PROFILE FORM – Expression of Interest

Organization Name / Department	PONTIFICIA UNIVERSIDAD CATÓLICA ARGENTINA / FACULTAD DE INGENIERÍA Y CIENCIAS AGRARIAS Animal Reproduction and Biotechnology Laboratory	Organization Short Name	UCA
Organization Type	<input checked="" type="checkbox"/> University <input checked="" type="checkbox"/> Public Research Centre <input type="checkbox"/> Large Scale Enterprise <input type="checkbox"/> Small and Medium Scale Enterprise	<input type="checkbox"/> Public Body <input type="checkbox"/> International NGO <input type="checkbox"/> National NGO	
Research Fields	<input type="checkbox"/> Chemistry CHE <input type="checkbox"/> Social and Human Sciences SOC <input type="checkbox"/> Economic Sciences ECO <input type="checkbox"/> Information Science and Engineering ENG <input type="checkbox"/> Environment and Geosciences ENV <input checked="" type="checkbox"/> Life Sciences LIF <input type="checkbox"/> Mathematics MAT <input type="checkbox"/> Physics PHY	<u>Sub-Fields / Keywords:</u> Animal Science, Animal Reproduction, Biotechnology, Assisted Reproductive Technologies	
Short Description of the Organization / Department	<p>The Animal Reproduction and Biotechnology group is a part of the School of Engineering and Agricultural Sciences of the Pontifical Catholic University of Argentina (UCA), with its campus located in Puerto Madero harbor, in the heart of the city of Buenos Aires.</p> <p>The group focuses on the application of reproductive biotechnologies such as in vitro fertilization, embryo micromanipulation, cloning and cryopreservation for the reproduction and genetic improvement in domestic and exotic species.</p>		
Previous Related Projects / Research Experience	<p>Group experience includes development and application of assisted reproductive technologies to livestock and exotic species, as well as cloning and transgenics for the production of pharmaceutical proteins.</p> <p>Ongoing research projects and funding include molecular aspects of in vitro fertilization in domestic cattle and water buffalo, as well as microfertilization and cryopreservation techniques in horses. In the equine species, current efforts are focused on in vitro embryo production through intracytoplasmic sperm injection, oocyte vitrification and mitochondrial function.</p> <p>In addition, an active area of collaborative research includes the development of mathematical models for the description of heat transfer and the improvement of reproductive cell cryopreservation in equilibrium and non-equilibrium conditions.</p> <p>The group is funded, in part, by the National Research and Technology Council (CONICET), the National Agency of Science and Technology, and has participated in the past as host in Fullbright Visiting Scientist Program.</p>		
Short Description of the Project idea (if foreseeable)	<p>The group welcomes international scientists with expertise in all the aforementioned areas. In particular, veterinarians, molecular biologists and biotechnologists with background in reproductive biology and biotechnology. The group is currently interested in establishing international cooperation to expand current research in areas of gene expression, as well as molecular markers for gamete and viability.</p>		

Related Call	All actions.
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