



Shirley Sujey Evangelista Vargas, MSc

Veterinary Reproductive Biotechnologist & Molecular Biologist

Peru | ORCID: 0000-0001-6105-1889 | Scopus ID: 55572518600

Shirley Evangelista Vargas is a Veterinary Doctor and Molecular Biologist specializing in reproductive biology and biotechnologies in South American camelids. With completed doctoral studies in Veterinary Medicine and extensive training in real-time PCR and imaging flow cytometry, she integrates advanced molecular tools with reproductive technologies to improve genetic resource conservation in alpacas (*Vicugna pacos*).

As Senior Researcher and Head of Research Centers at Universidad Científica del Sur, she has led and collaborated on multiple funded projects, including the development of a colloid-rich antioxidant diluent for alpaca semen transport and the evaluation of oxidative stress effects on cryopreserved sperm fertility. Her contributions span both laboratory innovation and challenging high-Andean fieldwork.

MSc. Evangelista Vargas has co-authored over 20 peer-reviewed publications in indexed journals such as *Reproduction in Domestic Animals*, *Animal Reproduction Science*, and *Andrologia*, addressing sperm cryopreservation, oxidative damage, and fertility markers in camelids. She has also contributed to patents on artificial collection devices and semen preservation technologies for camelids.

Her work bridges molecular biology and reproductive biotechnologies, positioning her as a specialist in advancing sustainable reproduction and genetic conservation strategies for South American camelids.