

Hernán Santiago Hermida

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Education

School of Veterinary Sciences, University of Buenos Aires (FCV-UBA) Buenos Aires, Argentina
Postgraduate Specialist in University Teaching for Veterinary and Biological Sciences 2022

- Accredited by CONEAU, Res. 1141/13.

School of Pharmacy and Biochemistry, University of Buenos Aires (FFyB-UBA) Buenos Aires, Argentina
MSc in Biotechnology 2021

- Thesis: "Development of a PPA-ELISA for the diagnosis of *Mycobacterium avium* subsp. *paratuberculosis* in red deer (*Cervus elaphus*).\" Grade: Outstanding.
- Advisor: Dr. Silvia Colavecchia. Co-advisor: Dr. Silvia Mundo. Accredited by CONEAU, Res. 094/12.

School of Veterinary Sciences, University of Buenos Aires (FCV-UBA) Buenos Aires, Argentina
Veterinarian 2016

- Professional license MN 9769.

Research Experience

Immunology Department, FCV-UBA Buenos Aires, Argentina
Production and Purification of Specific Polyclonal Antisera 2018 – Present

- Designed and executed immunization schedules in rabbits and mice for anti-*Mycobacterium avium* subsp. *paratuberculosis* and anti-species antibodies (bovine, red deer, ovine, among others).
- Ran the full production process: inoculation, bleeding and serum collection.
- Purified antibodies by salt precipitation and affinity chromatography.
- Supplied the resulting reagents for ELISA and immunofluorescence assays in diagnosis and research.

SePreVet Diagnostic Immunology Service, FCV-UBA Buenos Aires, Argentina
Lead, Safety and Innocuity Testing of Veterinary Vaccines — Murine Model 2016 – Present

- Designed and ran safety and innocuity trials of veterinary vaccines in mice for third-party clients.
- Managed dosing, clinical observation and parameter recording in experimental animals.

UBATEC 2020 Project, FCV-UBA Buenos Aires, Argentina
Lead, Clinical Monitoring of Experimental Animals 2020 – 2021

- Monitored clinical signs and health parameters in cats (*Felis catus*) and vampire bats (*Desmodus rotundus*) used as experimental models for a vectored SARS-CoV-2 vaccine.
- Collected blood and swab samples for assessment of the humoral immune response.

Teaching Experience

Immunology Department, FCV-UBA Buenos Aires, Argentina
Instructor, Immunology for Laboratory Animal Technicians July 2023 – Present

- Teach immunology to students of the Laboratory Animal Technician program.

Immunology Department, FCV-UBA Buenos Aires, Argentina
Teaching Assistant (Ayudante de Primera) September 2017 – Present

- Appointed by competitive examination in 2024, after an interim appointment held since 2017. Res. (CD) 3165/17.
- Salaried, part-time appointment.

Georgetown University / Fundación INFANT Buenos Aires, Argentina
Tutor, Translational Health Science Internship June 2016 – July 2018

- Tutored international students in English on laboratory animal models, facilities and biosafety.
- Delivered instruction in histology, cytology and necropsy techniques.
- Prepared and supervised laboratory practical sessions.
- Coordinated Journal Clubs in English.

Publications**Peer-Reviewed**

Hermida HS, Colavecchia S, Fernández B, Suhevic J, Martínez Vivot M, Mereb G, Mundo SL (2020). Rabbit anti-deer polyclonal antibody applied to the diagnosis of *Mycobacterium avium* subsp. *paratuberculosis* in red deer (*Cervus elaphus*). *Small Ruminant Research* 190, 106184. DOI: 10.1016/j.smallrumres.2020.106184

Book Chapters and Conference Proceedings

Hermida HS, Pierdomenico A, Colavecchia S, Mundo S (2016). Técnicas serológicas: ELISA e Inmunofluorescencia. In: *Técnicas diagnósticas de aplicación en enfermedades infecciosas en medicina veterinaria*. ISSN 2469-2123.

Hermida HS, Colavecchia S, Fernández B, Mereb G, Mundo S (2020). Development and validation of an in-house ELISA for the diagnosis of Johne's disease in red deer. *LVII Reunión Anual, Sociedad Argentina de Inmunología*. ISBN 978-987-47408-0-9.

Presentations**Invited Talks**

Hermida H. "Prototype of an AI-based tool applied to the teaching of Veterinary Immunology." Latin American Symposium on Veterinary Immunology, Red LatInmVet. Colonia, Uruguay. November 2025.

Hermida H. "Nuestra experiencia en la utilización de gatos (*Felis catus*) como modelo experimental para la prueba de vacunas." VIII Jornada Virtual de la Ciencia de Animales de Laboratorio, ATPACAL. Buenos Aires, Argentina. November 2021.

Conference Presentations

Hermida H, Colavecchia S, Mundo S. "Prototipo de herramienta basada en inteligencia artificial aplicada en la enseñanza de Inmunología Veterinaria." II Encuentro Iberoamericano de Innovación en Tecnologías Digitales, UBA Digital. Buenos Aires, Argentina. September 2025.

Hermida HS, Colavecchia S, Fernández B, Mereb G, Mundo SL. "Development and validation of an in-house ELISA for the diagnosis of Johne's disease in red deer." LXVII Reunión Científica, Sociedad Argentina de Inmunología. Tucumán, Argentina. 2019. Poster.

Hermida HS, Colavecchia S, Mundo S. "Separación inmunomagnética para la mejora del diagnóstico de paratuberculosis por técnicas moleculares en materia fecal." IX Jornadas de Jóvenes Investigadores, FCV-UBA. Buenos Aires, Argentina. 2019. Oral presentation.

Hermida H, Colavecchia S, Mundo S, et al. "Production and development of a PPA-ELISA for the diagnosis of *Mycobacterium avium* subsp. *paratuberculosis* in red deer." XII Congreso ALAI / XXIII Congreso SMI. Mexico. 2018. Poster.

Hermida HS, Colavecchia S, Mundo S. "Separación inmunomagnética para la mejora del diagnóstico de paratuberculosis por técnicas moleculares en materia fecal." XI Jornadas AAIV. Salta, Argentina. 2018. Poster.

Grants, Fellowships & Funded Projects**Fellowships — University of Buenos Aires****Doctoral Completion Fellowship**

2019 – 2021

- "Paratuberculosis in red deer (*Cervus elaphus*): seroprevalence study in Argentina." Advisor: Dr. Silvia Colavecchia. Res. (CS) 1281/19.

Master's Fellowship

2016 – 2019

- "Comparison of fecal processing methods to improve the diagnosis of paratuberculosis." Advisor: Dr. Silvia Colavecchia. Res. (CS) 5380/16.

Undergraduate Research Fellowship 2014 – 2016

- "Antibody production and its application in ELISA techniques for the diagnosis of paratuberculosis." Advisor: Dr. Silvia Colavecchia. Res. (CS) 1041/14.

Funded Projects

ImmunoVet AI — UBATIC, FCV-UBA 2026 – 2027

- "Integrating predictive AI and machine learning into the teaching of rational vaccine design in veterinary immunology." Teacher-researcher.

3D-Bioprinted Oral Vaccine Platform — PREINC.UBA 2026

- "An innovative solution for integral health under the One Health approach." Awarded by the Secretariat of Science and Technology, University of Buenos Aires. Co-director; led by Dr. Silvia Colavecchia.

AI Teaching Prototype — UBATIC, FCV-UBA 2024 – 2025

- "Prototype of an AI-based tool applied to the teaching of veterinary immunology."

UBACYT 20020220300132BA — FCV-UBA 2023

- "Protection against paratuberculosis: development and in vivo evaluation of vaccine candidates."

UBACYT 20720190200005BA — FCV-UBA 2020

- "Laboratory-specific tests and their association with clinical evaluation in the diagnosis of paratuberculosis in ruminants."

UBATEC 2020 — FCV-UBA 2020

- "Immune response induced by a vectored COVID-19 vaccine in domestic and wild animals."

UBACYT 20020170100327BA — FCV-UBA 2018

- "Identification of biomarkers and immunological diagnosis for the control of paratuberculosis."

Professional Experience

Fundación Instituto Leloir Buenos Aires, Argentina

Veterinary Technical Adviser, Animal Facility 2026 – Present

- Advise on animal welfare, clinical monitoring of colonies and detection of health deviations.
- Support the institutional animal care and use committee (CICUAL).
- Review experimental protocols with researchers at design stage.

NeoPower Digital Buenos Aires, Argentina

Partner September 2026 – Present

- Stepped back from day-to-day growth leadership to focus on own research projects and biotechnology.
- Serve as partner at Alumbra, the company's AI agent platform (since September 2025).

NeoPower Digital Buenos Aires, Argentina

Chief Growth Officer June 2022 – September 2026

- Directed growth strategy, communications and product roadmap for a software company specialized in AI agents and automation.
- Took the in-house product Argiefy to 500,000+ users and 25,000+ followers in the fintech community on X.
- Generated US\$200,000 in revenue through business development and prospecting.
- Led a team of five in marketing and growth.
- Ran prospecting, data analysis and metrics tracking through AI agents connected to a CRM, an ERP and task managers such as Linear, with custom workflows and skills.
- Advised research teams and biotech companies on AI applied to biomedical research: modeling of protein structures, epitopes and cellular interactions (AlphaFold, RFdiffusion, TxGemma, NetMHCpan, etc.).
- Led the integration of AI tools into scientific and educational settings, including LLM-based assistants and RAG architectures for academic institutions.

Private Practice

Small Animal Veterinarian

Buenos Aires, Argentina

2016 – Present

- Provide clinical care for companion animals. Professional license MN 9769.

Skills & Languages

Laboratory: Polyclonal antibody production and purification (immunization schedule design, salt precipitation, affinity chromatography); in-house ELISA development and validation; immunofluorescence; immunomagnetic separation; laboratory animal handling and experimental procedures (mice, rats, rabbits, sheep, chickens, cats, bats); necropsy, histology and cytology.

Computational: Protein structure, epitope and molecular interaction modeling (AlphaFold, RFdiffusion, TxGemma, NetMHCpan, etc.); LLM-based assistants and RAG architectures.

Growth and operations: Business development and prospecting; marketing and growth team leadership; data analysis and metrics tracking; AI agents, custom workflows and skills; CRM, ERP and task managers (Linear).

Languages: Spanish (native); English (professional working proficiency — oral presentations and scientific writing).

Professional Development

Selected graduate coursework, University of Buenos Aires

2016 – 2019

- Molecular Genetics (80 h); Cell Culture and Biotechnological Applications (70 h); Bioethics in Animal Research (30 h); Veterinary Immunology (80 h); Virus Culture and Purification (70 h); Protein Downstream Processing (70 h); Fermentation Technology (80 h); Bioinformatics Tools for Nucleic Acid and Protein Analysis (60 h); Biotechnology of Reproduction in Domestic and Wild Animals (64 h).