



Curriculum Vitae

Personal information **Carolina Rodríguez Sanz**

Work experience

Scientific and Clinical Assessor at the Department of Veterinary Medicines - Spanish Agency of Medicines and Medical Devices, Spain (2023 - Present)

Adjunct Professor at the School of Veterinary Medicine - Alfonso X el Sabio University, Spain (2025-2026)

Researcher & Assistant Professor at the Department of Animal Health - Complutense University of Madrid, Spain (2019 - 2023)

Veterinary Surgeon - Equine and small animal veterinary practice, Spain (2017 - 2019)

Education and training

Candidate of the ACVM-Immunology - American College of Veterinary Microbiologists (2025 - Present)

Resident of the European Veterinary Parasitology College (EVPC) - Complutense University of Madrid, Spain (2020 - 2023)

PhD in Veterinary Sciences - Complutense University of Madrid, Spain (2018 - 2023)

MSc in Biochemistry, Molecular Biology and Biomedicine - Complutense University of Madrid, Spain (2018 - 2019)

PGDip in Small Animal Medicine and Surgery - Autonomous University of Barcelona, Spain (2017 - 2018)

Doctor of Veterinary Medicine (DVM) - Complutense University of Madrid, Spain (2012 - 2017)

Additional information

Publications

Sanz CR, Carbonell JD, Miró G, Meana A. "Equine fasciolosis due to *Fasciola hepatica* in the Community of Madrid (Spain): First report of a rare parasitic infection in horses". *Vet Rec Case Rep*. 2025 Jul 13:e70151. doi: 10.1002/vrc.2.70151

Sarquis J, **Sanz CR**, Raposo LM, Montoya A, Checa R, Barrera JP, Gómez-Velasco C, Sánchez EE, Miró G. "Unveiling prognostic indicators in canine leishmaniosis: two decades of evidence". *Parasit Vectors*. 2025 Nov 18;18(1):467. doi: 10.1186/s13071-025-07042-0

Sarquis J, Raposo LM, **Sanz CR**, Montoya A, Barrera JP, Checa R, Perez-Montero B, Rodríguez MLF, Miró G. (2024). "Relapses in canine leishmaniosis: risk factors identified through mixed-effects logistic regression". *Parasit Vectors*. Aug 22;17(1):357. doi: 10.1186/s13071-024-06423-1

Sanz CR, Sarquis J, Daza MÁ, Miró G. (2024). "Exploring the impact of epidemiological and clinical factors on the progression of canine leishmaniosis by statistical and whole genome analyses: from breed predisposition to comorbidities". *Int J Parasitol*. Published online April 2, 2024. doi:10.1016/j.ijpara.2024.03.006

Sanz CR, Miro G, Sevane N, Reyes-Palomares A, Dunner S. (2022). "Modulation of Host Immune Response during *Leishmania infantum* Natural Infection: A Whole-Transcriptome Analysis of the Popliteal Lymph Nodes in Dogs". *Frontiers in Immunology*, 12, 794627. doi: 10.3389/fimmu.2021.794627

Sanz CR, Sevane N, Perez-Alenza MD, Valero-Lorenzo M, Dunner S. (2021). "Polymorphisms in canine immunoglobulin heavy chain gene cluster: a double-edged sword for diabetes mellitus in the dog". *Animal Genetics*, 52:333-341. doi: 10.1111/age.13047

Rodríguez-Sanz CE., Sevane N., Dunner S. (2019). "Genetics of equine metabolic syndrome". *Veterinary Record* 185, 148. doi: 10.1136/vr.l4725

Sevane N., **Sanz CR.**, Dunner S. (2019). "Explicit evidence for a missense mutation in exon 4 of *SLC45A2* gene causing the pearl coat dilution in horses". *Animal Genetics*, 50: 275-278. doi: 10.1111/age.12784

Sanz-Alferez S., **Rodríguez-Sanz CE.**, Baron-Sola A., del Campo FF. (2018). "Whole-Genome Sequence of Toxic Freshwater Cyanobacterium *Chrysochlorum ovalisporum* Strain UAM-MAO". *Microbiology Resource Announcements* 7(14) e00819-18; doi: 10.1128/mra.00819-18

Sanz CR. "Fiebre aftosa en ganado porcino: orígenes, causas y actualidad". *PorciSapiens*, 13(2025): 2-9.

Gil Morales S., Gutiérrez Soriano B., Sánchez Sánchez de Rojas L., **Sanz CR.** "Medicamentos veterinarios como alternativas a los antimicrobianos bajo la perspectiva de Una Salud". *PorciSapiens*, 11(2024): 2-13.

Sánchez Sánchez de Rojas L., **Sanz CR.**, Agote L., Belmar R. (2024). "Uso responsable de antiparasitarios en cerdos". *PorciSapiens*, 10(2024): 2-11.

Rodríguez Sanz C., Barrera JP., Montoya A., Miro G. (2021). "Ehrlichiosis y anaplasmosis caninas". *Canis et Felis*, 2(2021)-169: 44-49.

Barrera JP., **Rodríguez Sanz C.**, Montoya A., Miro G. (2021). "Otras enfermedades vectoriales en el perro". *Canis et Felis*, 2(2021)-169: 50-57.

Presentations at Scientific Conferences:

Sanz CR, Rodríguez I, Alférez SS. "The dog as the immunologist's best friend for identifying potential genomic biomarkers for atopic dermatitis: an integrated bioinformatic analysis with translational potential" presented at the 7th European Congress of Immunology (ECI). Dublin (Ireland).

Sarquis J, **Sanz CR**, Domínguez D, Miro G. (2024, September) "Exploring the Impact of Initial Treatment on Clinical Outcomes in Canine Leishmaniosis: A Retrospective Analysis over 20 years (2000-2020)" presented at the 34th Annual Congress of the European College of Veterinary Internal Medicine (ECVIM-CA). Lyon (France).

Rodríguez I, Alférez SS, **Sanz CR**. (2023, September). "Whole-genome analysis pinpoints molecular imprints promoting epidermal barrier dysfunction in canine atopic dermatitis" presented at the 48th World Small Animal Veterinary Association Congress and the 28th FECAVA Eurocongress. Lisbon (Portugal).

Sanz CR, Sarquis J, Miro G. (2022, September). "Evolution over a 20-year period of the predisposing factors and clinical outcome of dogs with leishmaniosis: are hosts getting weaker or parasites stronger?" presented at the 32nd Annual Congress of the European College of Veterinary Internal Medicine (ECVIM-CA). Gothenburg (Sweden).

Sanz CR, Sarquis J, Miro G. (2022, August). "Effect of breed as an intrinsic risk factor for severe forms of canine leishmaniosis: a retrospective study of 1.194 cases" presented at the 7th World Congress on Leishmaniosis. Cartagena (Colombia).

Sarquis J, **Sanz CR**, Miro G. (2022, August). "Mortality rate in canine leishmaniosis: a 20-year retrospective study" presented at the 7th World Congress on Leishmaniosis. Cartagena (Colombia).

Sanz CR, Carbonell JD, Miro G, Meana A. (2022, July). "Diagnóstico y manejo clínico de la infección por *Fasciola hepatica* en el caballo: a propósito de un caso clínico en la Comunidad de Madrid" presented at the XXII Congreso de la Sociedad Española de Parasitología (SOCEPA). Madrid (Spain).

Sanz CR, Reyes-Palomares A, Sevane N, Dunner S, Miro G. (2022, April). "Role of B cell homeostasis in the lymph nodes of dogs with clinical leishmaniosis" presented at the Animal Leishmaniosis International Veterinary Event (ALIVE). Malaga (Spain).

Sarquis J, Osuna C, Montoya A, Parody N, **Sanz CR**, Perez-Montero B, Carnes J, Miro G. (2022, April). "Levels of circulating immune complexes in dogs with dysproteinemia due to *Leishmania infantum* natural infection" presented at the Animal Leishmaniosis International Veterinary Event (ALIVE). Malaga (Spain).

Sanz CR, Montoya A, Sarquis J, Miro G. (2021, September). "Cytokine modulation of the innate immune response in natural canine leishmaniosis" presented at the 32nd annual congress of the European College of Veterinary Internal Medicine-CA (Online). **Awarded** by the International Society for Companion Animal Infectious Diseases (ISCAID).

Sanz CR, Sarquis J, Montoya A, Miro G. (2021, July). "Impact of *Leishmania infantum* natural infection on host long non-coding RNA responses" presented at the 28th International Conference of the World Association for the Advancement of Veterinary Parasitology (Online).

Sanz CR, Sarquis J, Martínez JA, Miro G. (2021, July). "Breed-associated risk for developing clinical leishmaniosis in dogs" presented at the annual meeting of International Society of Animal Genetics (Online).

Sarquis J, Cacheiro C, Parody N, Carnes J, **Sanz CR**, Miro G. (2021, June). "Effect of the treatment on the concentration of circulating immune complexes in dogs with leishmaniosis" presented at the AMVAC annual meeting (Online).

Sanz CR, Sarquis J, Martínez JA, Miro G. (2020, October). "The breed as a predisposing factor in the epidemiology of canine leishmaniosis" presented at the annual meeting of the Spanish Society of Parasitology (Online).

Sanz CR, Sevane N, Perez-Alenda MD, Dunner S. (2020, March). "Canine autoimmune diabetes and genetic variability of the IGH region" presented at the AMVAC annual meeting. Madrid (Spain).

Sanz CR, Sevane N., Dunner S. (2019, July). "FAM174A-11(G) allele is a poor indicator for Equine Metabolic Syndrome" presented at the 37th International Society for Animal Genetics Conference. Lleida (Spain).

Rodríguez-Sanz CE, Sanz-Alferez S. (2018, September). "Relationship between Equine Metabolic Syndrome and Feeding Practices" presented at the 14th International Equitation Science Conference - Equine welfare: good training, good feeding, good housing, good mental state, good health, good behaviour. Rome (Italy).

Rodríguez-Sanz CE., Manso-Díaz G., Fores P. (2017, November). "Spinal Ataxia in Horses: Diagnostic Procedures" presented at the 3rd International Conference on Equine Sports Medicine. Madrid (Spain).

Rodríguez-Sanz CE. (2017, November). "Urgencias oftalmológicas: ¡Laceración a la vista!" presented at the XVIII International Conference on Equine Medicine and Surgery. Sevilla (Spain).

Rodríguez-Sanz CE. (2017, November). "Caso clínico: una conjuntivitis complicada" presented at the 1er Congreso Virtual de Animales de Compañía de MSD Animal Health. Best poster award.

Projects

Clinical applications of omic technologies and Big Data analyses in veterinary immune-mediated diseases

Memberships

European Veterinary Parasitology College (**EVPC**)

American Veterinary Medical Association (**AVMA**)

International Society for Companion Animal Infectious Diseases (**ISCAID**)

International Society for Animal Genetics (**ISAG**)

Colegio Oficial de Veterinarios de Madrid (**COLVEMA**)

Asociación de Veterinarios Especialistas en Pequeños Animales (**AVEPA**)

Other Relevant Information

Areas of expertise:

Veterinary Immunology, Veterinary Internal Medicine, Canine Leishmaniosis, Bioinformatics and Computational Biology, Molecular Biology, Parasitology, Veterinary Infectious Diseases, Endocrinology, Equine Science, Animal Genetics

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