



Flavio Herberg de Alonso

Clinical Assistant Professor, Comparative Medicine

Bio

BIO

Dr. Alonso has over 10 years of experience in veterinary clinical pathology and multiple years of experience with hematology of laboratory animals and teaching students at many levels and from different backgrounds. After gaining his DVM degree from the University of Brasilia in 2012 which included an international academic exchange at the Universidade do Porto (Portugal, 2009), Dr. Alonso completed an internship in Veterinary Clinical Pathology and a PhD in laboratory medicine and pathology at the Universidade Federal de Minas Gerais (Brazil, 2018). He then pursued a Clinical Pathology residency program at the UC Davis School of Veterinary medicine (USA, 2021). Dr. Alonso worked many years in the private sector as a clinical pathologist at veterinary laboratories, such as Zoetis (USA) and TECSA (Brazil), before entering academia. Nowadays Dr. Alonso is a Clinical Assistant Professor at the Stanford University School of Medicine (USA) and the clinical pathologist and director of the Animal Diagnostic Lab in the Veterinary Service Center of the Department of Comparative Medicine. On the subject of Hematology of Laboratory Animals, he is actively collaborating and submitting grant proposals to relevant research projects, publishing peer-reviewed papers and lecturing around California, the US and the Americas.

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Comparative Medicine

ADMINISTRATIVE APPOINTMENTS

- Director, Animal Diagnostic Laboratory, Stanford University, School of Medicine, Department of Comparative Medicine, (2023- present)

HONORS AND AWARDS

- Gerald V. Ling Award - Outstanding Small Animal Research Study and Presentation, University of California, Davis, Veterinary Medical Teaching Hospital (2021)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Diplomate, American College of Veterinary Pathologists (2022 - present)

PROFESSIONAL EDUCATION

- Resident, University of California, Davis, School of Veterinary Medicine, Veterinary Medical Teaching Hospital , Clinical Pathology (2021)
- PhD, Universidade Federal de Minas Gerais , Laboratory Medicine and Pathology (2019)
- DVM, Universidade de Brasília (2012)

LINKS

- Animal Diagnostic Lab: <https://animaldiagnosticlab.com/>
- Department of Comparative Medicine: <https://med.stanford.edu/compmed.html>

- Master of Science in Lab Animal Medicine (MLAS): <https://med.stanford.edu/compmed/masters-lab-animal-science.html>

Teaching

COURSES

2025-26

- Maximizing Data, Minimizing Mice: BIOS 285 (Spr)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Laboratory Animal Science (Masters Program)

Publications

PUBLICATIONS

- **Lipid-rich abdominal fluid mimicking chyloabdomen in a horse.** *Journal of veterinary diagnostic investigation : official publication of the American Association of Veterinary Laboratory Diagnosticians, Inc*
Alonso, F. H., Hallum, J., Arndt, S.
2025: 10406387251388911
- **Strain-resolved metagenomic analysis and qPCR validation suggest *Clostridium cuniculi* is the etiologic agent for infectious diarrhea in severely immunodeficient mice.** *Journal of veterinary diagnostic investigation : official publication of the American Association of Veterinary Laboratory Diagnosticians, Inc*
Barouch-Bentov, R., Merrill, B. D., Reineking, W., Moorhead, R., Herberg de Alonso, F., Fazel, M., Uzal, F. A., Felt, S. A., Sonnenburg, J. L., Casey, K. M., Nagamine, C. M.
2025: 10406387251378688
- ***Clostridium cuniculi* is associated with chronic high-morbidity low-mortality diarrhea in NSG and NSG-related mouse strains.** *Veterinary pathology*
Casey, K. M., Barouch-Bentov, R., Reineking, W., Alonso, F. H., Moorhead, R., Fazel, M., Armien, A. G., Uzal, F. A., Chanin, R. B., Bhatt, A. S., Green, S. L., Felt, S. A., Nagamine, et al
2025: 3009858251372565
- **Cytology and histology of a high-grade oligodendroglioma with embryonal features in a dog.** *Journal of veterinary diagnostic investigation : official publication of the American Association of Veterinary Laboratory Diagnosticians, Inc*
Alonso, F. H., Phan, A., O'Connell, K., Vasilatis, D. M.
2025: 10406387251331553
- ***Mycobacterium fortuitum* Infection Associated With Septic Arthritis and Mycobacteremia in a Dog From Northern California.** *Journal of veterinary internal medicine*
Li, T., Alonso, F. H., Rhoades, A., Kelman, A., Affolter, V., Sykes, J. E.
2025; 39 (3): e70083
- **Assessing the Efficacy of Topical Fluralaner for the Treatment of *Demodex musculi* Infestations in NSG Mice (*Mus musculus*)** *Journal of the American Association for Laboratory Animal Science*
Morril, C., Vilches-Moure, J., Garner, J. P., Cotton, R., Barouch-Bentov, R., Alonso, F. H., Nagamine, C.
2025; 64 (2)
- **Case report: Disseminated *Cladophialophora bantiana* phaeohyphomycosis in a dog with hepatic dysfunction, and concurrent ehrlichiosis.** *Frontiers in veterinary science*
Alonso, F. H., Fenton, H., Muller, A., Freeman, M. A., Becker, A. A., Rolph, K., Abramo, N., Rawlins, G., Kitson, L., Kessel, E., Thrall, M. A.
2024; 11: 1451299
- **Can nematode infection cause internal bleeding in dogs? A case of *Dirofilaria immitis* infection in cavitory fluids.** *Veterinary clinical pathology*
Alonso, F. H., Shapiro, K., Camp, L. E.
2024
- **Dyspnea, nonproductive cough, and inappetence in an 8-year-old mixed-breed dog.** *Journal of the American Veterinary Medical Association*

- Feng, J., de Rosayro, R., Peda, A., Alonso, F. H., Bolfa, P.
2023; 1-4
- **Agglutination and hemolytic crossmatching to determine transfusion reaction differences between large and small breed goats** *JOURNAL OF VETERINARY INTERNAL MEDICINE*
Kretsch, C. M. M., Alonso, F. H. H., Buktenica, M., Heller, M. C. C.
2023
 - **Validation and method comparison for a point-of-care lateral flow assay measuring equine whole blood insulin concentrations** *JOURNAL OF VETERINARY DIAGNOSTIC INVESTIGATION*
Berryhill, E. H., Urbina, N. S., Marton, S., Vernau, W., Alonso, F. H.
2023; 35 (2): 124-131
 - **Exertional hemolysis and hematuria in a Labrador Retriever dog** *JOURNAL OF VETERINARY DIAGNOSTIC INVESTIGATION*
Saint-Pierre, L. M., Burkitt-Creedon, J. M., H. Alonso, F., Wun, M. K.
2022; 34 (6): 968-971
 - **Case Report: Cytologic Description of Somatotroph Pituitary Adenoma in a Cat** *FRONTIERS IN VETERINARY SCIENCE*
Alonso, F. H., Niedringhaus, K. D., Ceregatti, M. G., Maglaty, M. A.
2022; 9: 934009
 - **Laboratory diagnosis of canine uroperitoneum based on cellular and biochemical characteristics of serum and abdominal fluid** *VETERINARY CLINICAL PATHOLOGY*
Paes, P. R. O., Alonso, F. H., Chaves, N. G., Andrade, A. M., Ceregatti, M. G., Horta, R. S.
2022; 51 (1): 107-111
 - **Lipoprotein profile of pleural and peritoneal transudates in dogs and cats** *JOURNAL OF VETERINARY INTERNAL MEDICINE*
Alonso, F. H., Behling-Kelly, E., Borjesson, D. L.
2022; 36 (2): 464-472
 - **Glucose and Lactate Reference Intervals for White Sturgeon and Evaluation of Two Point-of-Care Devices in Sturgeon Infected with *Veronaea botryosa*** *JOURNAL OF AQUATIC ANIMAL HEALTH*
Hagen, K. B., Lima, K., Ang, J., Montealegre-Golcher, F., Alonso, F. H., Soto, E.
2022; 34 (1): 28-37
 - **Atypical cytomorphicologic description of a seminoma in a rabbit** *VETERINARY MEDICINE AND SCIENCE*
Alonso, F. H.
2022; 8 (1): 121-124
 - **Pathology in Practice** *JAVMA-JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION*
Alonso, F. H., Choi, E., Borchers, A., Darling, S. L., Vasilatis, D., Kol, A.
2021; 259: 1-4
 - **The predominance and diagnostic value of neutrophils in differentiating transudates and exudates in dogs** *VETERINARY CLINICAL PATHOLOGY*
Alonso, F. H., Christopher, M. M., Paes, P. R. O.
2021; 50 (3): 384-393
 - **Evaluation of a new multiple regression model based on biochemical parameters for the distinction of canine exudates and transudates** *VETERINARY CLINICAL PATHOLOGY*
Alonso, F. H., Mattoso, C. R. S., Leme, F. O. P., Paes, P. R. O.
2021; 50 (3): 394-403
 - **Gelatinous transformation of bone marrow in a rabbit** *JOURNAL OF VETERINARY DIAGNOSTIC INVESTIGATION*
Alonso, F. H., Tarbert, D. K., Wu, B., Rodriguez, P., Christopher, M. M.
2021; 33 (6): 1183-1187
 - **Mandibular metastasis of a prostatic carcinoma in a dog** *VETERINARY MEDICINE AND SCIENCE*
Michalak, S. R., Woerde, D. J., Wilson, S. S., Alonso, F. H., Hardy, B. T.
2021; 7 (5): 1488-1492

- **Canine leishmaniasis in Northern California-A case report** *VETERINARY CLINICAL PATHOLOGY*
Alonso, F. H., Vasilatis, D. M., Veluvolu, S. M., Willcox, J. L., Scorza, B. M., Petersen, C. A., Kol, A.
2021; 50 (1): 71-75
- **What is your diagnosis? Peritoneal effusion in a 7-year-old dog** *VETERINARY CLINICAL PATHOLOGY*
Alonso, F. H., Roy, M. A., Kol, A.
2020; 49 (4): 678-680
- **Prognostic values of physical and hematological parameters of dogs naturally infected with parvovirus PVC-2: retrospective study of 103 cases** *ARQUIVO BRASILEIRO DE MEDICINA VETERINARIA E ZOOTECNIA*
Alves, F. S., Alonso, F. H., Horta, R. S., Barbosa, B. C., Beier, S., Paes, P. O.
2020; 72 (6): 2127-2134
- **Canine cavitory effusion: a retrospective study of 304 cases in Brazil** *ARQUIVO BRASILEIRO DE MEDICINA VETERINARIA E ZOOTECNIA*
Alonso, F. H., Bulla, C., Paes, P. O.
2019; 71 (3): 869-877