Stanford



Katherine Gates DVM, PhD, DACLAM

Clinical Assistant Professor, Comparative Medicine

Bio

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Comparative Medicine

LINKS

- Linkedin: https://www.linkedin.com/in/katherine-gates-phd-dvm-daclam-29724989/

Teaching

COURSES

2026-27

- All creatures great and small: the role of animal models in biomedical research.: COMPMED 188 (Sum)

2025-26

- All creatures great and small: the role of animal models in biomedical research.: COMPMED 188 (Sum)
- Maximizing Data, Minimizing Mice: BIOS 285 (Spr)

Publications

PUBLICATIONS

- **Large Animal Translational Validation of 3 Mitral Valve Repair Operations for Mitral Regurgitation Using a Mitral Valve Prolapse Model: A Comprehensive In Vivo Biomechanical Engineering Analysis.** *Circulation. Cardiovascular interventions*

  Zhu, Y., Yajima, S., Park, M. H., Venkatesh, A., Stark, C. J., Tran, N. A., Walsh, S. K., Ethiraj, S., Wilkerson, R. J., Lin, L. E., Lee, S. H., Gates, K. Y., Arthur, et al

  2024; 17 (4): e013196

- **A Cross-sectional Survey on Rodent Environmental Health Monitoring Practices: Benchmarking, Associations, and Barriers.** *Journal of the American Association for Laboratory Animal Science : JAALAS*

  Luchins, K. R., Gates, K. V., Winn, C. B., Manuel, C. A., Pettan-Brewer, C., Foley, P. L., Peterson, N. C., Garner, J. P., Hanson, W., LaFollette, M. R.

  2023; 62 (1): 64-73

- **Efficacy of Supplemental Diet Gels for Preventing Postoperative Weight Loss in Mice (Mus musculus).** *Journal of the American Association for Laboratory Animal Science : JAALAS*

  Gates, K. V., Alamaw, E., Jampachaisri, K., Huss, M. K., Pacharinsak, C.

  2022

- **Shotgun Immunoproteomics for Identification of Nonhuman Leukocyte Antigens Associated With Cellular Dysfunction in Heart Transplant Rejection.** *Transplantation*

  Gates, K. V., Panicker, A. J., Biendarra-Tiegs, S. M., Vetr, N. G., Lopera Higuita, M., Nelson, T. J., Pereira, N. L., Griffiths, L. G.

2022; 106 (7): 1376-1389

- **Immunoproteomic Identification of Noncarbohydrate Antigens Eliciting Graft-Specific Adaptive Immune Responses in Patients with Bovine Pericardial Bioprosthetic Heart Valves.** *Proteomics. Clinical applications*
  Gates, K. V., Xing, Q., Griffiths, L. G.
  2021; 15 (4): e2170034
- **Chronic graft-specific cell-mediated immune response toward candidate xenogeneic biomaterial.** *Immunologic research*
  Gates, K. V., Griffiths, L. G.
  2018; 66 (2): 288-298
- **Cardiac Non-Human Leukocyte Antigen Identification: Techniques and Troubles.** *Frontiers in immunology*
  Gates, K. V., Pereira, N. L., Griffiths, L. G.
  2017; 8: 1332
- **Antigenicity of Bovine Pericardium Determined by a Novel Immunoproteomic Approach.** *Scientific reports*
  Gates, K. V., Dalgliesh, A. J., Griffiths, L. G.
  2017; 7 (1): 2446