Stanford



Monika Huss, DVM, MS

Clinical Associate Professor, Comparative Medicine

Bio

BIO

Monika Huss, DVM, MS, received her D.V.M. from Western University of Health Sciences in 2010 and completed her residency training in Laboratory Animal Medicine at Stanford in 2015. Upon completion, she joined the Veterinary Service Center as a clinical veterinarian before becoming a clinical instructor for the Department of Comparative Medicine in 2016. Her interests include animal welfare, pain recognition, anesthesia and analgesia.

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Comparative Medicine

PROFESSIONAL EDUCATION

- DVM, Western University of Health Sciences (2010)
- MS, Stanford University , Biological Sciences (2006)
- BA, Stanford University , Human Biology (2005)

Teaching

COURSES

2026-27

- Research Biomethodology for Laboratory Animal Science: COMPMED 202 (Aut, Win, Spr)

2025-26

- Research Biomethodology for Laboratory Animal Science: COMPMED 202 (Aut, Win, Spr)

2024-25

- Research Biomethodology for Laboratory Animal Science: COMPMED 202 (Aut, Win, Spr)

2023-24

- Research Biomethodology for Laboratory Animal Science: COMPMED 202 (Aut, Win, Spr)

Publications

PUBLICATIONS

- **Onset of Analgesia in Rats (Rattus norvegicus) for Three Buprenorphine Formulations.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Alamaw, E. D., Schwartz, K. E., Zhang, M., Franco, B. D., Jampachaisri, K., Huss, M. K., Pacharinsak, C.
  2026: 1-7

- **Port of Choice: Induction Chamber Inlet Position Affects Speed of Isoflurane Induction in Mice.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Alamaw, E. D., Gaudiel, A. R., Zhang, M., Franco, B. D., Jampachaisri, K., Huss, M. K., Sharp, P. E., Pacharinsak, C.
  2026: 1-7

- **ANALGESIC EFFICACY OF SUBCUTANEOUS MELOXICAM IN RED-EARED SLIDER TURTLES (TRACHEMYS SCRIPTA).** *Journal of zoo and wildlife medicine : official publication of the American Association of Zoo Veterinarians*
  Schwartz, K., Huss, M., Sladky, K., Rivera, S., Vilches-Moure, J. G., Ray, R., Jampachaisri, K., Sharp, P., Felt, S., Pacharinsak, C.
  2026; 57 (1): 64-69

- **ANALGESIC EFFICACY OF SUBCUTANEOUS MELOXICAM IN RED-EARED SLIDER TURTLES (TRACHEMYS SCRIPTA)** *JOURNAL OF ZOO AND WILDLIFE MEDICINE*
  Schwartz, K., Huss, M., Sladky, K., Rivera, S., Vilches-Moure, J. G., Ray, R., Jampachaisri, K., Sharp, P., Felt, S., Pacharinsak, C.
  2026; 57 (1): 64-69

- **Total Intravenous Anesthesia with Propofol Effectively Provides a Light Anesthesia Plane in Cynomolgus Male Monkeys (Macaca fascicularis) Undergoing Nociceptive Heat Stimulation.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Zhang, M., Schwartz, K., Klukinov, M., Fisher, K. M., Darian-Smith, C., Franco, B., Crowley, M., Huss, M., Sharp, P., Jampachaisri, K., Yeomans, D. C., Pacharinsak, C.
  2026: 1-9

- **The Analgesic Effect of Two Different Extended-Release Meloxicam Formulations for Attenuation of Hypersensitivity in Rats (Rattus norvegicus).** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Ge, Y., Alamaw, E. D., Jampachaisri, K., Sharp, P., Pacharinsak, C., Huss, M. K.
  2025: 1-7

- **Tiletamine-Zolazepam for Total Intravenous Anesthesia in Sheep.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Mocarski, E., Heng, K., Huss, M., Saenz, Y., Franco, B., Butts Pauly, K., Jampachaisri, K., Sharp, P., Pacharinsak, C.
  2025: 1-6

- **Extended-release buprenorphine with bupivacaine effectively provides postoperative analgesia in a mouse laparotomy model** *THAI JOURNAL OF VETERINARY MEDICINE*
  Huss, M. K., Kerk, A., Cotton, R., Chum, H., Hsieh, M., Jampachaisri, K., Sharp, P., Pacharinsak, C.
  2025; 55 (3)

- **Analgesic Efficacy of a Long-Acting Transdermal Buprenorphine in Rats (Rattus norvegicus)** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
  Ge, Y., Alamaw, E. D., Ray, R. R., Gorman, G., Jampachaisri, K., Huss, M. K., Pacharinsak, C.
  2025; 64 (3): 406-413

- **Oxytocin administration rescues the negative impacts of social isolation on wound healing in mice.** *Hormones and behavior*
  Steele, S. R., Ratuski, A. S., Hui, E. I., Mahoney, B. S., Geronimo, J. T., Huss, M. K., Parker, K. J., Garner, J. P.
  2025; 171: 105741

- **Analgesic Efficacy of Oral Carprofen-Treated Gel and Tablets for an Incisional Pain Model in NSG Mice** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
  Alamaw, E. D., Tien, K., Zhang, M., Ge, Y., Gorman, G., Nagamine, C. M., Jampachaisri, K., Ray, R. R., Pacharinsak, C., Huss, M. K.
  2025; 64 (2): 228-240

- **Efficacy and Effects of High-Dose Carprofen after Plantar Incision in C57BL/6J Mice** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
  Cotton, R. M., Casey, K. M., Alamaw, E., Gates, K., Jampachaisri, K., Garner, J. P., Kendall, L., Pacharinsak, C., Huss, M. K.
  2025; 64 (2): 204-211

- **General Anesthesia Induced by a Combination of Medetomidine/Vatinoxan with Ketamine and Buprenorphine-ER in C57BL/6J Mice (Mus musculus).** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Tien, K., Franco, B., Alamaw, E. D., Jampachairsi, K., Casey, K., Huss, M., Pacharinsak, C.
  2024

- **Carprofen Attenuates Postoperative Mechanical and Thermal Hypersensitivity after Plantar Incision in Immunodeficient NSG Mice.** *Comparative medicine*

Alamaw, E. D., Casey, K. M., Tien, K., Franco, B. D., Gorman, G., Cotton, R. M., Nagamine, C., Jampachaisri, K., Sharp, P., Pacharinsak, C., Huss, M. K.
2024

- **Comparing Three Formulations of Buprenorphine in an Incisional Pain Model in Mice.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Lopez-Echeverria, G., Alamaw, E., Gorman, G., Jampachaisri, K., Huss, M. K., Pacharinsak, C.
  2023

- **Effects of atipamezole on selected physiologic parameters in cynomolgus macaques (Macaca fascicularis).** *Journal of medical primatology*
  Schwartz, K., Zhang, M., Franco, B., Jampachaisri, K., Cotton, R. M., Huss, M. K., Fisher, K. M., Darian-Smith, C., Sharp, P., Pablo, L., Pacharinsak, C.
  2023

- **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

- **A Review of Long-acting Parenteral Analgesics for Mice and Rats.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Huss, M. K., Pacharinsak, C.
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- **Efficacy of 3 Buprenorphine Formulations for the Attenuation of Hypersensitivity after Plantar Incision in Immunodeficient NSG Mice.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Arthur, J. D., Alamaw, E. D., Jampachairsri, K., Sharp, P., Nagamine, C. M., Huss, M. K., Pacharinsak, C.
  2022

- **Extended-release Buprenorphine, an FDAindexed Analgesic, Attenuates Mechanical Hypersensitivity in Rats (Rattus norvegicus).** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Alamaw, E. D., Franco, B. D., Jampachaisri, K., Huss, M. K., Pacharinsak, C.
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- **Effectiveness of two extended-release buprenorphine formulations during postoperative period in neonatal rats.** *PloS one*
  Zhang, M., Alamaw, E., Jampachaisri, K., Huss, M., Pacharinsak, C.
  2022; 17 (10): e0276327

- **Mouse Anesthesia: The Art and Science.** *ILAR journal*
  Navarro, K. L., Huss, M., Smith, J. C., Sharp, P., Marx, J. O., Pacharinsak, C.
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- **Lipid bound extended release buprenorphine (high and low doses) and sustained release buprenorphine effectively attenuate post-operative hypersensitivity in an incisional pain model in mice (Mus musculus).** *Animal models and experimental medicine*
  Navarro, K., Jampachaisri, K., Huss, M., Pacharinsak, C.
  2021; 4 (2): 129-137

- **Sustained release buprenorphine effectively attenuates postoperative hypersensitivity in an incisional pain model in neonatal rats (Rattus norvegicus).** *PloS one*
  Blaney, A. n., Jampachaisri, K. n., Huss, M. K., Pacharinsak, C. n.
  2021; 16 (2): e0246213

- **Buprenorphine, but not lidocaine, effectively attenuates post-operative thermal hypersensitivity in an incisional model in neonatal rats (Rattus norvegicus)** *SCANDINAVIAN JOURNAL OF LABORATORY ANIMAL SCIENCE*
  Katz, E. M., Huss, M. K., Jampachaisri, K., Pacharinsak, C.
  2021; 47 (1): 1–11

- **Continuous Rate Infusion of Alfaxalone during Ketamine-Xylazine Anesthesia in Rats.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Heng, K. n., Marx, J. O., Jampachairsi, K. n., Huss, M. K., Pacharinsak, C. n.
  2020; 59 (2): 170–75

- **Influence of Pain and Analgesia on Orthopedic and Wound-healing Models in Rats and Mice.** *Comparative medicine*
  Huss, M. K., Felt, S. A., Pacharinsak, C. n.
  2019

- **Evaluation of 3 Alcohol-based Agents for Presurgical Skin Preparation in Mice.** *Journal of the American Association for Laboratory Animal Science : JAALAS*
  Huss, M. K., Casey, K. M., Hu, J. n., Moorhead, R. C., Chum, H. H.
  2019

- **The Physiologic Effects of Isoflurane, Sevoflurane, and Hypothermia Used for Anesthesia in Neonatal Rats (Rattus norvegicus).** *Journal of the American Association for Laboratory Animal Science*
  Huss, M. K., Chum, H. H., Chang, A. G., Jampachairsi, K., Pacharinsak, C.
  2016; 55 (1): 83-88

- **Echocardiographic and Electrocardiographic Characteristics of Male and Female Squirrel Monkeys (Saimiri spp.).** *Journal of the American Association for Laboratory Animal Science*
  Huss, M. K., Ikeno, F., Buckmaster, C. L., Albertelli, M. A.
  2015; 54 (1): 25-28

- **Supplemental Diet Aids Early Weaning of Crl:CD1(ICR) Mouse Pups.**
  Huss, M., Chang, A., Nagamine, C.
  LAS Pro. .
  2015

- **Prevalence of Batrachochytrium dendrobatidis in 120 Archived Specimens of Lithobates catesbeianus (American Bullfrog) Collected in California, 1924-2007.** *EcoHealth*
  Huss, M., Huntley, L., Vredenburg, V., Johns, J., Green, S.
  2013; 10 (4): 339-343