

# Stanford

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## Kerriann Casey, DVM

Clinical Assistant Professor, Comparative Medicine

### Bio

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#### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Comparative Medicine

#### ADMINISTRATIVE APPOINTMENTS

- Director, Comparative Medicine Necropsy Service, (2018- present)

#### HONORS AND AWARDS

- Department of Comparative Medicine Distinguished Clinician Award, Stanford University School of Medicine (2018)
- Dr. Donald R. Cordy Prize in Veterinary Anatomic Pathology, University of California, Davis (2016)
- Gerald V. Ling Award - Outstanding Small Animal Research Study and Presentation, University of California, Davis (2016)
- Henry L. Foster DVM Scholar, Tufts Cummings School of Veterinary Medicine (2012-2013)
- Norman J. MacLeod Endowed Scholar, Tufts Cummings School of Veterinary Medicine (2012)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Geropathology Research Network (2017 - present)
- Member, Digital Pathology Association (2017 - present)
- Member, American College of Veterinary Pathologists (2016 - present)

#### PROFESSIONAL EDUCATION

- Fellow, Stanford University School of Medicine , Post-Doctoral Research Fellowship (2018)
- Diplomate, American College of Veterinary Pathologists (ACVP) , Anatomic Pathology (2016)
- Resident, University of California - Davis , Anatomic Pathology (2016)
- DVM, Tufts University , Veterinary Medicine (2013)
- BA, Connecticut College , Behavioral Neuroscience (2007)

### Teaching

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#### COURSES

##### 2019-20

- Aardvarks to Zebras: The A to Z of Animal Anatomy: COMPMED 81Q (Win)
- Rodent Animal Models: Selection, Detection, Dissection, Inspection: BIOS 285 (Aut)

## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Laboratory Animal Science (Masters Program)

## Publications

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### PUBLICATIONS

- **Novel NanoLuc substrates enable bright two-population bioluminescence imaging in animals.** *Nature methods*  
Su, Y., Walker, J. R., Park, Y., Smith, T. P., Liu, L. X., Hall, M. P., Labanich, L., Hurst, R., Wang, D. C., Encell, L. P., Kim, N., Zhang, F., Kay, et al  
2020
- **Tumor shedding and metastatic progression after tumor excision in patient-derived orthotopic xenograft models of triple-negative breast cancer.** *Clinical & experimental metastasis*  
Razmara, A. M., Sollier, E., Kisirkoi, G. N., Baker, S. W., Bellon, M. B., McMillan, A., Lemaire, C. A., Ramani, V. C., Jeffrey, S. S., Casey, K. M.  
2020
- **Histologic safety of transcranial focused ultrasound neuromodulation and magnetic resonance acoustic radiation force imaging in rhesus macaques and sheep.** *Brain stimulation*  
Gaur, P., Casey, K. M., Kubanek, J., Li, N., Mohammadjavadi, M., Saenz, Y., Glover, G. H., Bouley, D. M., Pauly, K. B.  
2020; 13 (3): 804–14
- **Biodegradable Fluorescent Nanoparticles for Endoscopic Detection of Colorectal Carcinogenesis** *ADVANCED FUNCTIONAL MATERIALS*  
Rogalla, S., Flisikowski, K., Gorpas, D., Mayer, A. T., Flisikowska, T., Mandella, M. J., Ma, X., Casey, K. M., Felt, S. A., Saur, D., Ntziachristos, V., Schnieke, A., Contag, et al  
2019; 29 (51)
- **EVALUATION OF DYNAMIN 2 (DNM2) AS A THERAPEUTIC TARGET IN LEPTOMENINGEAL METASTATIC DISEASE**  
Chernikova, S., Polyak, D., Deng, J., Tsau, S., Casey, K., Johnson, E., Bhambhani, H., Khoer, L., Stanley, G., Tran, K., Connolly, I., Joyce, A., Li, et al  
OXFORD UNIV PRESS INC.2019: 57
- **Investigating circulating tumor cells and distant metastases in patient-derived orthotopic xenograft models of triple-negative breast cancer.** *Breast cancer research : BCR*  
Ramani, V. C., Lemaire, C. A., Triboulet, M., Casey, K. M., Heirich, K., Renier, C., Vilches-Moure, J. G., Gupta, R., Razmara, A. M., Zhang, H., Sledge, G. W., Sollier, E., Jeffrey, et al  
2019; 21 (1): 98
- **Novel NanoLuc substrates enable bright and sustained bioluminescence imaging in animals**  
Walker, J., Park, Y., Smith, T., Wang, D., Hall, M., Liu, L., Hurst, R., Su, Y., Encell, L., Kim, N., Casey, K., Kirkland, T., Lin, et al  
AMER CHEMICAL SOC.2019
- **Remodeling of epigenome and transcriptome landscapes with aging in mice reveals widespread induction of inflammatory responses** *GENOME RESEARCH*  
Benayoun, B. A., Pollina, E. A., Singh, P., Mahmoudi, S., Harel, I., Casey, K. M., Dulken, B. W., Kundaje, A., Brunet, A.  
2019; 29 (4): 697–709
- **Western diet regulates immune status and the response to LPS-driven sepsis independent of diet-associated microbiome** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Napier, B. A., Andres-Terre, M., Massis, L. M., Hryckowian, A. J., Higginbottom, S. K., Cumnock, K., Casey, K. M., Haileselassie, B., Lugo, K. A., Schneider, D. S., Sonnenburg, J. L., Monack, D. M.  
2019; 116 (9): 3688–94
- **Pravastatin improves fetal survival in mice with a partial deficiency of heme oxygenase-1.** *Placenta*  
Tsur, A., Kalish, F., Burgess, J., Nayak, N. R., Zhao, H., Casey, K. M., Druzin, M. L., Wong, R. J., Stevenson, D. K.  
2019; 75: 1–8
- **Validation of a geropathology grading system for aging mouse studies.** *GeroScience*  
Snyder, J. M., Snider, T. A., Ciol, M. A., Wilkinson, J. E., Imai, D. M., Casey, K. M., Vilches-Moure, J. G., Pettan-Brewer, C., Pillai, S. P., Carrasco, S. E., Salimi, S., Ladiges, W.  
2019

- **Proliferative Typhlocolitis With Multinucleated Giant Cells: A Nonspecific Enteropathy in Immunodeficient Sentinel Mice** *VETERINARY PATHOLOGY*  
Casey, K. M., Johnson, A. L., Hunrath, M. N., Fraser, J. K., McCowan, N. C., Wasson, K., Doty, R. A., Griffey, S. M., Imai, D. M.  
2019; 56 (1): 157–68
- **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., Moorhead, R. C., Chum, H. H.  
2019
- **What is your diagnosis? Conjunctival smear in a dog.** *Veterinary clinical pathology*  
Gonzales-Viera, O., Casey, K., Keel, M. K.  
2018
- **Pravastatin Induces Heme Oxygenase Activity and Enhances Placental Development in a Murine Model.**  
Tsur, A., Kalish, F., Burgess, J., Zhao, H., Casey, K. M., Druzin, M. L., Wong, R. J., Stevenson, D. K.  
SAGE PUBLICATIONS INC.2018: 155A–156A
- **Pravastatin improves pregnancy outcome and placental development in heme oxygenase-1 deficient mice**  
Tsur, A., Kalish, F., Burgess, J., Zhao, H., Casey, K., Druzin, M. L., Wong, R. J., Stevenson, D. K.  
MOSBY-ELSEVIER.2018: S202
- **SETD3 is an actin histidine methyltransferase that prevents primary dystocia.** *Nature*  
Wilkinson, A. W., Diep, J., Dai, S., Liu, S., Ooi, Y. S., Song, D., Li, T. M., Horton, J. R., Zhang, X., Liu, C., Trivedi, D. V., Ruppel, K. M., Vilches-Moure, et al  
2018
- **Identification of occult micrometastases and isolated tumour cells within regional lymph nodes of previously diagnosed non-metastatic (stage 0) canine carcinomas** *VETERINARY AND COMPARATIVE ONCOLOGY*  
Casey, K. M., Steffey, M. A., Affolter, V. K.  
2017; 15 (3): 785–92
- **Partial gastrectomy for resection of a gastric leiomyoma in a guinea pig (Cavia porcellus)** *JAVMA-JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION*  
Gardhouse, S. M., Guzman, D., Sadar, M. J., DeRouen, A. J., Bucy, D. S., Adedeji, A. O., Vernau, W., Casey, K. M., Mohr, F., Steffey, M. A.  
2016; 249 (12): 1415–20
- **Bilateral Aural Adenocarcinoma in a Congo African Grey Parrot (Psittacus erithacus erithacus)** *JOURNAL OF AVIAN MEDICINE AND SURGERY*  
Houck, E. L., Keller, K. A., Hawkins, M. G., Burton, A. G., Casey, K. M., Keel, K., Tong, N., Guzman, D.  
2016; 30 (3): 257–62
- **Bilaterally Symmetric Focal Cortical Dysplasia in a Golden Retriever Dog** *JOURNAL OF COMPARATIVE PATHOLOGY*  
Casey, K. M., Bollen, A. W., Winger, K. M., Vernau, K. M., Dickinson, P. J., Higgins, R. J., Siso, S.  
2014; 151 (4): 375–79
- **Reproductive Experience Alters Neural and Behavioural Responses to Acute Oestrogen Receptor alpha Activation** *JOURNAL OF NEUROENDOCRINOLOGY*  
Byrnes, E. M., Casey, K., Carini, L. M., Bridges, R. S.  
2013; 25 (12): 1280–89
- **Reproductive experience modifies the effects of estrogen receptor alpha activity on anxiety-like behavior and corticotropin releasing hormone mRNA expression** *HORMONES AND BEHAVIOR*  
Byrnes, E. M., Casey, K., Bridges, R. S.  
2012; 61 (1): 44–49