

Stanford



Sherril L. Green, DVM, PhD

Professor of Comparative Medicine

CONTACT INFORMATION

- **Alternate Contact**

Tel (650) 498-6285

Bio

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Comparative Medicine
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Chair, Scientific Review Committee, ACVIM Foundation, (2004-2006)
- Chair, Scientific Advisory Committee, AALAS, (2005-2006)
- Editorial Review Board, Journal American Association of Laboratory Animal Science, (2011-2020)
- Director, Veterinary Service Center, (2009- present)
- Chair, Department of Comparative Medicine, (2009- present)

HONORS AND AWARDS

- Distinguished Alumni, LSU School of Veterinary Medicine (2011)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board of Directors (past Chair), California Branch of Biomedical Research (2013 - present)
- Board of Directors, National Association for Biomedical Research (2014 - present)

PROFESSIONAL EDUCATION

- Diplomate, American College of Veterinary Medicine , Large Animal Internal Medicine (1991)
- PhD, UC-Davis , Neurobiology (1993)
- DVM, LSU , Veterinary Medicine (1985)

LINKS

- The Laboratory Xenopus: <http://www.laboratoryxenopus.com/>
- Comparative Medicine: <http://med.stanford.edu/compmed.html>
- Master of Laboratory Animal Science: <http://med.stanford.edu/compmed/mlas.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Xenopus are a major, non-mammalian laboratory animal model. They are a hardy, long-lived and fully aquatic amphibian species. Under laboratory conditions, they can lay eggs year around, thus providing researchers with a steady supply of biological material. Xenopus are used to study vertebrate embryology, cellular biology, biomedical-physiology, toxicology and biochemistry. My research focuses on the biology, health and disease of laboratory Xenopus. Stanford undergraduates and veterinary residents participate in Xenopus research projects on topics ranging from infectious disease, parasitology, husbandry and housing, to animal welfare and behavior.

Teaching

COURSES

2021-22

- Laboratory Animal Science Professional Development and Career Exploration: COMPMED 290 (Aut, Win)
- Masters Research Presentations: COMPMED 291 (Spr)

2020-21

- Laboratory Animal Science Professional Development and Career Exploration: COMPMED 290 (Aut, Win, Spr)

2019-20

- Horse Medicine: COMPMED 83 (Win)

2018-19

- Horse Medicine: COMPMED 83 (Aut)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Eden Alamaw

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)

Publications

PUBLICATIONS

- **Degenerative Osteoarthropathy in Laboratory Housed Xenopus (*Silurana*) tropicalis.** *Comparative medicine*
Zhang, M., Wilson, S. S., Casey, K. M., Thomson, P. E., Zlatow, A. L., Langlois, V. S., Green, S. L.
1800; 71 (6): 512-520
- **Levetiracetam-responsive paroxysmal exertional dyskinesia in a Welsh Terrier.** *Journal of veterinary internal medicine*
Green, S., Olby, N.
2021
- **Axial Skeletal Malformations in Genetically Modified *Xenopus laevis* and *Xenopus tropicalis*.** *Comparative medicine*
Zlatow, A. L., Wilson, S. S., Bouley, D. M., Tetens-Woodring, J. n., Buchholz, D. R., Green, S. L.
2020; 70 (6): 532-41
- **Acute and Chronic Outcomes of Gas-Bubble Disease in a Colony of African Clawed Frogs (*Xenopus laevis*)** *COMPARATIVE MEDICINE*
Tsai, J. Y., Felt, S. A., Bouley, D. M., Green, S. L.
2017; 67 (1): 4-10

- **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
- **Tissue Distribution of Enrofloxacin in African Clawed Frogs (*Xenopus laevis*) after Intramuscular and Subcutaneous Administration** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
Felt, S., Papich, M. G., Howard, A., Long, T., McKeon, G., Torreilles, S., Green, S.
2013; 52 (2): 186-188
- **Prevalence of *Batrachochytrium dendrobatidis* in *Xenopus* Collected in Africa (1871-2000) and in California (2001-2010).** *PloS one*
Vredenburg, V. T., Felt, S. A., Morgan, E. C., McNally, S. V., Wilson, S., Green, S. L.
2013; 8 (5)
- **Evolutionary perspectives into placental biology and disease** *Applied & Translational Genomics*
Chuong, E. B., Hannibal, R. L., Green, S. L., Baker, J. C.
2013; 2: 64-69
- **Biology, behavior, and environmental enrichment for the captive African clawed frog (*Xenopus* spp)** *APPLIED ANIMAL BEHAVIOUR SCIENCE*
Chum, H., Felt, S., Garner, J., Green, S.
2013; 143 (2-4): 150-156
- **Ongoing invasions of the African clawed frog, *Xenopus laevis*: a global review** *BIOLOGICAL INVASIONS*
Measey, G. J., Roedder, D., Green, S. L., Kobayashi, R., Lillo, F., Lobos, G., Rebelo, R., Thirion, J.
2012; 14 (11): 2255-2270
- **Chytrid-Positive Wild-Caught *Xenopus laevis* from California: Implications for Laboratory Animal Medicine**
GREEN, S. L., Felt, S., McNally, S. V., Morgan, E. C., Wilson, S., Vredenburg, V. T.
AMER ASSOC LABORATORY ANIMAL SCIENCE.2012: 682-82
- **Mortality and Morbidity in African Clawed Frogs (*Xenopus laevis*) Associated with Construction Noise and Vibrations** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
Felt, S. A., Cowan, A. M., Luong, R., Green, S. L.
2012; 51 (2): 253-256
- **Ongoing invasions of the African clawed frog, *Xenopus laevis*: a global review** *Biological Invasions*
Measey GJ, Rodder D, Green SL, Kobayashi R, Lillo F, Lobos G, Rebelo R, Thirion J-M
2012; 10.1007 (s10530-012)
- **Serum Clinical Biochemical and Hematologic Reference Ranges of Laboratory-Reared and Wild-Caught *Xenopus laevis*** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
Wilson, S., Felt, S., Torreilles, S., Howard, A., Behan, C., Moorhead, R., Green, S.
2011; 50 (5): 635-640
- **The Pharmacokinetics of Enrofloxacin in Adult African Clawed Frogs (*Xenopus laevis*)** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
Howard, A. M., Papich, M. G., Felt, S. A., Long, C. T., McKeon, G. P., Bond, E. S., Torreilles, S. L., Luong, R. H., Green, S. L.
2010; 49 (6): 800-804
- **Evaluation and Refinement of Euthanasia Methods for *Xenopus laevis*** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
Torreilles, S. L., McClure, D. E., Green, S. L.
2009; 48 (5): 512-516
- **The Laboratory *Xenopus* sp.** *CRC Press, Taylor & Francis Group, Boca Raton, FL*
Green SL
2009
- **Assessment of the utility of using intra- and intervertebral minimum sagittal diameter ratios in the diagnosis of cervical vertebral malformation in horses** *VETERINARY RADIOLOGY & ULTRASOUND*
Hahn, C. N., Handel, I., Green, S. L., Bronsvort, M. B., Mayhew, I. G.

2008; 49 (1): 1-6

- **Refuge cover decreases the incidence of bite wounds in laboratory South African clawed frogs (*Xenopus laevis*)** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
Torreilles, S. L., Green, S. L.
2007; 46 (5): 33-36
- **Ovarian hyperstimulation syndrome in gonadotropin-treated laboratory South African clawed frogs (*Xenopus laevis*)** *JOURNAL OF THE AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE*
Green, S. L., Parker, J., Davis, C., Bouley, D. M.
2007; 46 (3): 64-67
- **Postoperative analgesics in South African clawed frogs (*Xenopus laevis*) after surgical harvest of oocytes** *COMPARATIVE MEDICINE*
GREEN, S. L.
2003; 53 (3): 244-247
- **Thermal shock in a colony of South African clawed frogs (*Xenopus laevis*)** *VETERINARY RECORD*
GREEN, S. L., Moorhead, R. C., Bouley, D. M.
2003; 152 (11): 336-?
- **Cryptosporidiosis associated with emaciation and proliferative gastritis in a laboratory-reared South African clawed frog (*Xenopus laevis*)** *COMPARATIVE MEDICINE*
GREEN, S. L., Bouley, D. M., Josling, C. A., Fayer, R.
2003; 53 (1): 81-84
- **Factors affecting oogenesis in the South African Clawed frog (*Xenopus laevis*)** *COMPARATIVE MEDICINE*
GREEN, S. L.
2002; 52 (4): 307-312
- **Disease attributed to *Mycobacterium chelonae* in South African clawed frogs (*Xenopus laevis*)** *COMPARATIVE MEDICINE*
GREEN, S. L., Lifland, B. D., Bouley, D. M., Brown, B. A., Wallace, R. J., Ferrell, J. E.
2000; 50 (6): 675-679
- **Identification and management of an outbreak of *Flavobacterium meningosepticum* infection in a colony of South African clawed frogs (*Xenopus laevis*)** *1997 American-Association-of-Laboratory-Animal-Science Meeting*
GREEN, S. L., Bouley, D. M., Tolwani, R. J., Waggie, K. S., Lifland, B. D., Otto, G. M., Ferrell, J. E.
AMER VETERINARY MEDICAL ASSOC.1999: 1833-?