

Helen Valentine, DVM, MS, DACLAM

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Education:

- 2011 Cornell University, Center for Animal Resources and Education, Ithaca, NY
Residency Program in Laboratory Animal Medicine
Master of Science (MS), Comparative Biomedical Sciences
- 2008 Tufts Cummings School of Veterinary Medicine, N. Grafton, MA
Doctor of Veterinary Medicine (DVM)
- 2000 New York University, College of Arts of Sciences, New York, NY
Bachelor of Arts (BA), Biology and Psychology

Board Certification:

- 2012 American College of Laboratory Animal Medicine

License & Accreditation:

Illinois State Veterinary License
Federal DEA License
Illinois DEA License
USDA National Accreditation – Category II

Employment Experience:

- 2020-present **Director & Attending Veterinarian**, Division of Laboratory Animal Medicine (DLAM); **Research Associate Professor**, Department of Medical Microbiology, Immunology and Cell Biology (MMICB), Southern Illinois University School of Medicine, Springfield, IL
Centralized Animal Care and Use Program that is AAALACi accredited, USDA registered, and maintains a PHS Animal Welfare Assurance.
- Oversee fiscal and facility operations of DLAM
 - Establish and administer DLAM policies and procedures
 - Represent SIUSM to all animal care accrediting, certifying and regulatory bodies
 - Serve as Attending Veterinarian for SIUSM Springfield campus
 - Provide clinical medicine and surgical care to the animal population on campus
 - Serve as a member of the Laboratory Animal Care and Use Committee (LACUC)
 - Oversee and assist with swine laparoscopic surgical training labs
 - Oversee training program for all animal users on campus
 - Assist in curriculum and module development and in teaching graduate and medical students
 - Design, implement and participate in independent and/or collaborative research studies
- 2019-2020 **Attending Veterinarian Consultant**, Division of Laboratory Animal Medicine, Southern Illinois University School of Medicine, Springfield, IL
Centralized Animal Care and Use Program that is AAALACi accredited, USDA registered, and maintains a PHS Animal Welfare Assurance.
- Provide Attending Veterinarian services
 - Serve as a member of the Laboratory Animal Care and Use Committee (LACUC)
 - Perform veterinary review of LACUC protocols

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- Oversee and assist with swine laparoscopic surgical training labs
- 2018-present **Relief Veterinarian**, Lurie Clinic, PAWS Chicago, Chicago, IL
Small animal veterinary clinic that provides free or low-cost surgeries for low-income families in Chicago
- Perform high quality high volume spay/neuter (HQHVSN) surgeries, hernia repairs and deciduous teeth removal on cats and dogs
 - 75-85 surgeries/day between two surgeons
 - Time commitment – one Sunday/month
- 2016–2020 **Assistant Director/Clinical Veterinarian**, Division of Animal Resources, University of Illinois, Urbana, IL
Centralized Animal Care and Use Program that is AAALACi accredited, USDA registered, and maintains a PHS Animal Welfare Assurance.
- Contribute to the leadership and strategic direction of the Animal Care and Use Program
 - Provide health surveillance, preventative medicine, and clinical care for research and teaching animals including rodents, dogs, cats, swine, rabbits, amphibians, fish, and birds
 - Provide facility management and regulatory compliance oversight for animal facilities
 - Assist with preparing and submitting USDA annual reports, OLAW assurance, and AAALACi program description and annual reports
 - Develop and implement policies and standard operating procedures for animal husbandry, veterinary care, and research procedures
 - Supervise DAR animal facility supervisors and veterinary technicians
 - Serve as a member of the Institutional Animal Care and Use Committee (IACUC) and the Institutional Biosafety Committee (IBC)
 - Provide consultation to investigators during IACUC protocol development and implementation
 - Perform veterinary review of IACUC protocols
 - Provide animal related technical training to research staff and students
 - Provide lectures in Laboratory Animal Medicine Class and mentor students in Laboratory Animal Medicine rotation
- 2016-2020 **Clinical Assistant Professor**, Shelter Medicine, University of Illinois College of Veterinary Medicine, Urbana, IL
- Supervise and instruct veterinary students on mobile surgical unit during Shelter Medicine rotation – teach HQHVSN surgical techniques
 - Course coordinator and lecturer for Advanced Shelter Medicine elective course
 - Supervise and instruct veterinary students during mobile animal surgical hospital (MASH) style clinics on International Veterinary Outreach trips to Rhodes, Greece
- 2011–2016 **Senior Clinical Veterinarian**, Office of Animal Resources, University of Iowa, Iowa City, IA
Centralized animal care program that is AAALACi accredited, USDA registered, and maintains a PHS Animal Welfare Assurance. Approximately 212,000 animals on an annual basis are housed in 14 animal facilities under 524 Animal Protocols.
- Contribute to the leadership and strategic direction of the Animal Care and Use program
 - Provide health surveillance, preventative medicine, and clinical care for research

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animals including rodents, non-human primates, small ruminants, swine, rabbits, ferrets, dogs, amphibians, fish, birds

- Provide facility management and regulatory compliance oversight for animal facilities
- Supervise veterinary and surgical technicians
- Supervise operation of large animal surgical suite
- Provide training and oversight of swine anesthesia for imaging studies
- Develop and maintain programs for pre- and post-operative care, anesthesia, analgesia, and euthanasia to ensure humane animal treatment
- Develop and implement standard operating procedures for husbandry and veterinary care
- Serve as an alternate member of the IACUC
- Conduct semi-annual IACUC animal facility and laboratory inspections
- Provide consultation to investigators during IACUC protocol development and implementation
- Perform veterinary review of IACUC protocols
- Provide animal related technique training to research staff and animal caretakers
- Work with accountant to modify fees for services and accounting procedures
- Serve as acting Attending Veterinarian in the absence of the Attending Veterinarian
- Lecture undergraduate and graduate students in the ethical use of animals in research

2009–2011

Veterinary Surgeon, Spay and Neuter Syracuse, Syracuse, NY

Non-profit clinic devoted to sterilization of un-owned cats and dogs and pets belonging to low-income families.

- Perform physical exams, vaccinations, and parasite treatments
- Perform spay or neuter and other minor surgeries (hernia repair, wound care)

2008–2011

Laboratory Animal Veterinary Resident, Cornell University Center for Animal Resources and Education, Ithaca, NY

Three year ACLAM recognized laboratory animal medicine residency focusing on clinical care, facility management, animal husbandry, regulations, and compliance for biomedical and agricultural animals used for research and teaching. Training included two years of didactic coursework, participation in journal club and study groups, and a research component applicable towards a MS Degree in the field of Comparative Biomedical Sciences.

- Provide clinical care, health surveillance, preventative medicine, and regulatory oversight for biomedical and agricultural research and teaching animals
- Conduct monthly animal facility rounds
- Provide animal related training and support to research staff
- Provide collaborative research support
- Serve as an alternate member on the IACUC: participate in protocol review, semi-annual IACUC inspections, and compliance and post-approval monitoring
- Serve as a member of the IACUC Standard Operating Procedures Subcommittee
- Gain non-human primate and pharmaceutical experience during externships
- Coordinate and moderate a bimonthly journal club and resident slide review
- Participate in a weekly Laboratory Animal Medicine Study Group
- Complete a six-week anatomical pathology rotation in the Pathology Dept.
- Provide training and mentorship to veterinary students
- Provide didactic and clinical training to junior residents
- Design and conduct independent research for publication

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- 2000–2004 **Research Assistant**, Paul Greengard Laboratory, Rockefeller University, New York, NY
Molecular and cellular neuroscience laboratory supporting 60+ members.
- Maintain multiple mouse colonies for the entire laboratory
 - Perform all live animal procedures including: breeding, weaning, tissue collection, identification, timed mating, copulatory plug checks, & euthanasia
 - Extract and analyze DNA using PCR and Southern blot
 - Maintain extensive records and breeding/genotype databases
 - Train technical staff

Volunteer Work:

- 2019 World Vets – Veterinary surgeon, Kathmandu, Nepal
- Perform high volume spay/neuter surgeries in MASH style clinic
- 2017 World Vets – Veterinary surgeon, Laguna de Apoyo, Nicaragua
- Perform high volume spay/neuter surgeries in MASH style clinic
- 2015 World Vets – DVM instructor, Granada, Nicaragua
- Instruct veterinary students in spay/neuter surgeries on local animals
 - Provide free vaccine, deworming, and medical care to local animals

Professional Affiliations and Committee Membership:

- 2016-present The Illinois Club
- President (2019-2020)
 - Co-Vice President (2018-2019)
- 2015-present World Vets
- 2012-present American College of Laboratory Animal Medicine (ACLAM)
- ACLAM Task Force on Rodent Euthanasia (2016-present)
 - Examination Resources Committee (2014-2016)
- 2008-present American Association of Laboratory Animal Science (AALAS)
- AALAS Central Illinois Branch (2016-present)
 - Vice President (2019)
 - Co-chair Social Committee (2017-2018)
 - AALAS Iowa Branch (2011-2016)
 - President Elect (2016)
 - Board Member (2014-2015)
 - Journal Manuscript Reviewer (2011-present)
 - AALAS Upstate NY Branch (2008-2011)
- 2006-present American Veterinary Medical Association (AVMA)
- Panel on Depopulation – Laboratory Animal Working Group (2015-present)
- 2005-present American Society for Laboratory Animal Practitioners (ASLAP)

Peer-Reviewed Publications:

Phungviwatnikul, T., **Valentine, H.**, de Godoy, M., Swanson, K. (2020). Effects of Diet on Body Weight, Body Composition, Metabolic Status, and Physical Activity Levels of Adult Female Dogs After Spay Surgery. *Journal of Animal Science*, 98(3), PMID 32064516 or <https://doi.org/10.1093/jas/skaa057>

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Shomer, N., Williams, A., Newsome, J., Jonnalagadda, M., Slate, A., Hickman, D., Allen-Worthington, K., **Valentine, H.**, Wilkinson, M. (2020). Review of Rodent Euthanasia Methods. *Journal of American Association of Laboratory Animal Science: JAALAS*, PMID: 32138808 or <https://doi.org/10.30802/AALAS-JAALAS-19-000084>

Udpa, N., Iyer, S. R., Rajoria, R., Breyer, K. E., **Valentine, H.**, Singh, B., Gao, Y. (2013). Effects of Chitosan Coatings on Polypropylene Mesh for Implantation in a Rat Abdominal Wall Model. *Tissue Engineering. Part A*, 19(23-24), 2713–2723. PMID 23859182 or <http://www.ncbi.nlm.nih.gov/pubmed/23859182>

Valentine, H., Williams, W. O., & Maurer, K. J. (2012). Sedation or Inhalant Anesthesia before Euthanasia with CO₂ Does Not Reduce Behavioral or Physiologic Signs of Pain and Stress in Mice. *Journal of the American Association for Laboratory Animal Science : JAALAS*, 51(1), 50–57. PMID: 22330868 or <http://www.ncbi.nlm.nih.gov/pubmed/22330868>

Tyburczy, C., Brenna, M. E., DeMari, J. A., Kothapalli, K. S. D., Blank, B. S., **Valentine, H.**, Brenna, J. T. (2011). Evaluation of Bioequivalency and Toxicological Effects of Three Sources of Arachidonic Acid (ARA) in Domestic Piglets. *Food and Chemical Toxicology : an International Journal Published for the British Industrial Biological Research Association*, 49(9). PMID: 21722692 or <http://www.ncbi.nlm.nih.gov/pubmed/21722692>

Pavek, T. J., **Valentine, H.**, & Bailey, M. M. (2010). Operation of an Air Filtration Device Results in Morbidity and Mortality in Growing Chickens (*Gallus gallus domesticus*). *Journal of the American Association for Laboratory Animal Science : JAALAS*, 49(5), 578–582. PMID: 20858358 or <http://www.ncbi.nlm.nih.gov/pubmed/20858358>

Book Chapters:

Valentine, H., Daugherty, E.K., Singh, B., & Maurer, K.J. (2012). The Experimental Use of Syrian Hamsters. In M.A. Suckow, K.A. Stevens & R.P. Wilson (Eds.), *The Laboratory Rabbit, Guinea Pig, Hamster and Other Rodents* (First edition, 875-906). Waltham, MA: Elsevier.

Abstracts:

Valentine, H. & Maurer, K.J. (2010). Hemorrhagic pulmonary capillaritis associated with anti-neutrophil antibodies in Rag 2 deficient mice. *Journal of the American Association for Laboratory Animal Science: JAALAS* 49(5), P21.

Valentine, H., Maurer, K.J, Singh, B. (2010). Muscular disorder in a purpose-bred Labrador retriever. *American Association for Laboratory Animal Science: AALAS Abstracts*, PS22.

Pavek, T.J., **Valentine, H.**, Schat, K.A. (2009). Adrenal weight as a measure of chronic stress in chickens. *Journal of the American Association for Laboratory Animal Science: JAALAS* 48(5), P246.

Pavek, T.J., **Valentine, H.**, Bailey, M.M. (2009). Intermediate noise intensity results in growth abnormalities in chickens. *Journal of the American Association for Laboratory Animal Science: JAALAS* 48(5), P247.

Alcivar-Warren, A., Meehan-Meola, D., **Valentine, H.**, Das, P. (2007). Allelic and genotypic differences in broodstock from two SPF *Litopenaeus vannamei* shrimp lines (High Growth and Taura Syndrome Virus-Resistant) using microsatellite genetic markers. *Book of Abstracts. World Aquaculture Society 2007*.