

Barbie J Gadsden, DVM, PhD, DACVP

bgadsden@arizona.edu

Employment

University of Arizona, College of Veterinary Medicine August 2021-present
Assoc Professor of Pathology in Practice (half time) Tucson, AZ

Inotiv Apr 2021-present
Senior Pathologist St. Louis, MO

Charles River Laboratories Jan 2019- Mar 2021
Veterinary Pathologist II Mattawan, MI

- Specialty areas: Ocular and Otic Pathology
- Conduct microscopic and macroscopic tissue evaluation and data interpretation for assigned studies, including those using implanted devices, injected microspheres and transplanted human cells
- Integrate pathology, clinical pathology, pharmacokinetic, toxicokinetic, and in-life data to accurately interpret study findings
- Write comprehensive, detailed reports to convey test-article related compound effects
- Review Statement of Work documents and provide input to clients and laboratory services
- Interact with clients via teleconference to provide clarity and guidance with assigned study protocol design
- Communicate with the study team to discuss findings and troubleshoot study issues with regard to necropsy procedures, tissue sampling and processing, and test article formulation
- Conduct pathology peer reviews
- Partner with histology services and the biomarkers investigative group to refine tissue trimming and processing, and carry out method validation and leading-edge method development
- Present study findings and scientific toxicologic pathology information at various slide rounds and department seminars

MPI Research Jan 2016-Dec 2018
Principal Pathologist Mattawan, MI

- Specialty areas: Ocular and Otic Pathology
- Conducted microscopic and macroscopic tissue evaluation and data interpretation for assigned studies including those using injected microspheres
- Integrated pathology, clinical pathology, pharmacokinetic, toxicokinetic, and in-life data to accurately interpret study findings
- Wrote comprehensive, detailed reports to convey test-article related compound effects
- Consulted with clients via teleconference to provide clarity and guidance with study protocol design
- Communicated with the study team to discuss findings and troubleshoot study issues with regard to necropsy procedures, tissue sampling and processing, and test article formulation

Michigan State University 2016-2018
Adjunct Assistant Professor East Lansing, MI
College of Veterinary Medicine

- Moderated online course in Food Safety through the D2L platform
- Revised class syllabus and modules to facilitate discussion around research articles and relevant current events
- Encouraged critical thinking through the use of intentional open-ended questioning

Michigan State University, Diagnostic Center for Population and Animal Health 2007- 2010
Resident/Instructor East Lansing, MI

- Conducted gross necropsies and subsequent microscopic tissue evaluation of various species of companion, livestock, laboratory, and zoo animals
- Evaluated tissues from surgical biopsy specimens, using routine hematoxylin and eosin and other histochemical stains, immunohistochemical labeling, and multiple prognostic labeling panels
- Collaborated with virology, bacteriology, parasitology, toxicology, nutrition, endocrinology, and immunodiagnostic laboratories for necropsy and biopsy case results
- Facilitated daily rounds with veterinary students on the veterinary pathology rotation and graded necropsy reports
- Presented necropsy cases at weekly Grand Rounds
- Communicated case findings to clinical veterinarians, farmers, and researchers
- Generated reports for nationwide veterinary pathology databases

Dorchester County School District 4 2001-2003
Teacher, 7th Grade Science St. George, SC

- Taught students the fundamentals of biology, chemistry, and physics
- Designed interactive experiments for hands-on learning
- Collaborated with teammates to ensure student success
- Completed Assisting, Developing, and Evaluating Professional Teaching (ADEPT) certification

Education

Michigan State University 2016
Doctor of Philosophy, Comparative Enteric Diseases Laboratory East Lansing, MI
Department of Comparative Medicine and Integrative Biology
College of Veterinary Medicine

- Dissertation Topic: The pathogenesis of spontaneous autoimmune peripheral polyneuropathy: The NOB72^{-/-} mouse as a model for Guillain Barré Syndrome

Michigan State University 2016
Anatomic Pathology Resident, Department of Pathobiology East Lansing, MI
and Diagnostic Investigation

	<p>Tuskegee University Doctor of Veterinary Medicine, College of Veterinary Medicine</p> <ul style="list-style-type: none"> • Vice President of the Student Chapter of the American Veterinary Medical Association (2005-2006) • Class President (2003-2005) 	<p>2007 Tuskegee, AL</p>
	<p>South Carolina State University Master of Education, Secondary Science Education College of Education</p>	<p>2004 Orangeburg, SC</p>
	<p>North Carolina A&T State University, Bachelor of Science, Laboratory Animal Science School of Agriculture</p>	<p>2001 Greensboro, NC</p>
Special Certifications	<p>John Maxwell Certified DiSC® Trainer</p>	<p>Jan 2021</p>
	<p>Master Certified Life Coach Certified Life Coach Institute</p>	<p>June 2020</p>
	<p>Diplomate, American College of Veterinary Pathologists</p>	<p>2010</p>
Professional	<p>Grant Advisory Board Member and Mentor MSU Biomedical Research for University Students in Health Sciences (BRUSH) Program</p>	<p>2017-present</p>
	<p>Advisory Committee Member Michigan State University Veterinary Nursing Program</p>	<p>2017-present</p>
	<p>Interviewer, Multiple Mini Interviews Michigan State University</p>	<p>2015-2019</p>
	<p>Mentor, Enrichment Summer Program (ESP) Michigan State University</p>	<p>2008-2019</p>
	<p>Speaker, Nontraditional Careers in Veterinary Medicine Michigan State University, Virtual Seminar</p>	<p>2020</p>
	<p>Mentor, Early Career Pathologists Charles River Laboratories</p>	<p>2019-2020</p>
	<p>Speaker, Bodies Early College Experience Pathway Virtual Seminar</p>	<p>October 2020</p>
	<p>Keynote Address, National Association of Veterinary Scientists (NAVS) Virtual Conference</p>	<p>August 2020</p>
	<p>Women in Science Committee, MPI Research and Charles River Laboratories</p>	<p>2018-2019</p>
	<p>Speaker, Life as a Toxicologic Pathologist, Pathology Club Michigan State University</p>	<p>2018</p>
	<p>Speaker, Career and Research Seminar, BRUSH Program Michigan State University</p>	<p>2018</p>

	Keynote Address , MLK Jr Luncheon Michigan State University	January 2017
	Chairperson , Journey into Research Pathology Exhibit	April 2017
	Speaker , Society of Toxicologic Pathology Initiative Program (STIP), Tuskegee University	October 2017
	Speaker , Society of Toxicologic Pathology Initiative Program (STIP), Auburn University	October 2017
	Mentor , NIH R25 Student Summer Research Program Michigan State University	2015-2016
Additional Teaching Experience	Academic Coach , Michigan State University Charles Drew Science Scholars Program	2014-2015
	Graduate Mentor , NIH R25 Student Summer Research Program Michigan State University	2014-2015
	Graduate Mentor , Michigan State University, Comparative Enteric Diseases Laboratory (CEDL)	2010-2015
	Resident/Instructor 2007-2010, Michigan State University, 3 rd and 4 th year veterinary student pathology rotations, PDI 630, and summer pathology externship students	
Special Certification	Diplomate, 2010, American College of Veterinary Pathologists (ACVP)	
Awards	2020 Diversity and Inclusion Award Recipient, Michigan State University, College of Veterinary Medicine	
	Step up Award Recipient, MPI Research	
	NIH U19 Research Supplement to Promote Diversity in Health-Related Research August 2014	
	USDA National Needs Fellow, 2010-2013	
	Best Oral Presentation by a Graduate Student, American Association of Veterinary Laboratory Diagnosticians (AAVLD) Meeting, 2010, Minneapolis, MN	
Professional Affiliation	Society of Toxicologic Pathologists (STP)	
Presentations	Gadsden BJ, Brooks PT, Brudvig J, Kim HK, Bell J, St. Charles J, and Mansfield, LS. Neurological Phenotype Testing for Working Mouse Models of Guillain-Barré Syndrome: A Comparison Study. NEURAL Conference, Birmingham AL, 2015	
	Gadsden B, Jackson K, Malik A, Mansfield L. The NOD CD86^{-/-} Mouse as a Working Model for Guillain Barré Syndrome. Michigan Sate University College of Veterinary Medicine, Phi Zeta Research Day, 2014	

Gadsden B, Malik A, Bell JA, Dybas L, Mansfield, L. **Pathogenesis of Autoimmune Peripheral Neuropathy in the NOD129.S4CD86^{-/-} Mouse: Possible Model for Guillain Barré Syndrome.** Autumn Immunology Conference, Chicago, IL. November 2012.

Gadsden B, Maes R, Wise A, Kiupel M, Langohr I. **Fatal Canine Herpesvirus-1 Infection in an Adult Dog.** American College of Veterinary Pathologists Annual Meeting, Nashville, TN, December 2011

Gadsden B, Gilbreath E, Agnew D, Tabaka C. **Ulcerative Colitis/Colonic Adenocarcinoma in a Cotton-Top Tamarin.** Midwest Association of Veterinary Pathologists Annual Meeting, Zion, IL, August 2011

Gadsden B, Maes R, Wise A, Kiupel M, Langohr I. **Fatal Canine Herpesvirus-1 Infection in an Adult Dog.** American Association of Veterinary Laboratory Diagnosticians Annual Meeting, Minneapolis, MN, November 2010

Publications

JL St. Charles, JA Bell, **BJ Gadsden**, A Malik, H Cooke, LK Van de Grift, HY Kim, EJ Smith, LS Mansfield. Guillain Barré Syndrome is induced in Non-Obese Diabetic (NOD) mice following *Campylobacter jejuni* infection and is exacerbated by antibiotics. *J Autoimmun.* 2017 Feb; 77:11-38

Andrews C, **Gadsden BJ**, Carr EA, Kiupel M. **Pathology in Practice: Compound odontoma in a horse,** *J AmVet Med Assoc.* 2014 Feb; 244(4):417-9.

Carriera V, **Gadsden BJ**, Harrison TM, Braselton WE, Fitzgerald SD. **Pancreatic atrophy due to zinc toxicosis in two African ostriches (*Struthio camelus*),** *J Zoo Wildl Med.* 2011 Jun; 42(2); 304-8

Gadsden BJ, Maes R, Wise A, Kiupel M, Langohr I. **Fatal Canine Herpesvirus-1 Infection in an Adult Dog.** *J Vet Diag Invest.* 2012 May;24(3):604-7.