Maria von Chamier, DVM DACLAM PhD

Clinical Assistant Professor
Department of Infectious Diseases and Immunology, College of Veterinary Medicine
Clinical Veterinarian, Animal Care Services
University of Florida, Gainesville FL
mariavc@ufl.edu (352) 273-6079

CURRENT ROLES, UNIVERSITY OF FLORIDA

- **Clinical Assistant Professor**, Infectious Diseases and Immunology, College of Veterinary Medicine, 2022 – present
- **Clinical Veterinarian**, Animal Care Services, 2022 – present
- **Animal Research Liaison**, UF College of Veterinary Medicine to UF Animal Care and Use Program, 2022 – present

EDUCATION

- **Doctor of Philosophy**, Veterinary Medical Sciences, University of Florida, 2012 – 2019
- **Doctor of Veterinary Medicine**, Mixed Animal Practice University of Florida, 2005 – 2009
- **Bachelor of Science**, Major in Biology and Minor in Chemistry, Florida State University, 2001 – 2005

ADVANCED TRAINING

- **Postdoctoral Fellowship**, Animal Models of Urogenital Mycoplasma Infection, University of Florida 2019 – 2022
- **Residency**, Laboratory Animal Medicine, University of Florida, 2009 – 2012

VETERINARY PROFESSIONAL LICENSURE AND CERTIFICATION

- **Diplomate**, American College of Laboratory Animal Medicine, 2013 – present
- **Licensed Veterinarian**, Florida Board of Veterinary Medicine Department of Business and Professional Regulation, 2010 – present
- **Accredited Veterinarian, Category II**, USDA APHIS, 2010 – present
- **Practitioner Registration, CII – CIV**, Drug Enforcement Agency, 2012 – 2024

VETERINARY AND SPECIALTY EXAMINATIONS

- ACLAM Certifying Exam, Passed 2013, Renewed 2022
- North American Veterinary Licensure Exam (NAVLE), Passed 2008

ACADEMIC HONORS AND ACHIEVEMENTS

- UF CVM Predoctoral Fellowship, 2012 – 2013
- UF Biomedical Sciences Doctoral Program, 2012 (declined)
- Magna cum laude, FSU, 2005

- Phi Beta Kappa Society, 2005
- Golden Key Honor Society, 2005
- Florida Bright Futures Scholar, 2001 – 2005

PROFESSIONAL DEVELOPMENT

- UF CVM Leadership Training, 2025 – in progress
- NIH R01 Bootcamp, UF College of Medicine, 2024 – 2025
- UF CVM Mentorship Training, 2023
- NIH Young Investigator Workshop, Perinatal Research Society National Meeting, 2022

ASSOCIATIONS AND MEMBERSHIP

- UF Center for Inflammation and Mucosal Immunology (CIMI, Member), 2025 – present
- American Association for the Advancement of Science (AAAS, Associate Member), 2024 – present
- Perinatal Research Society (PRS, Associate Member), 2022 – present
- International Organization for Mycoplasmology (IOM, Member), 2018-2020, 2026 – present
- American College of Laboratory Animal Medicine (ACLAM, Diplomate, Member), 2013 – present
- UF Perinatal Biology and Reproductive Outcomes Research Program (Member), 2012 – present
- American College of Laboratory Animal Practitioners (ASLAP, Member), 2009 – present
- American Association for Laboratory Animal Science (AALAS, Member), 2009 – present
- American Veterinary Medical Association (AVMA, Member), 2009 – present

MEETINGS AND CONTINUING EDUCATION

- AALAS National Meeting (Presenter and Attendee), 2010, 2011, 2014, 2017, 2022, 2024
- IOM Congress (International), (Presenter and Attendee), 2018
- ACLAM Forum (Attendee), 2023, 2025
- PRS (International) (Attendee), 2022, 2024
- UF Perinatal Biology and Reproductive Outcomes Seminar (Presenter) 2013, 2016, 2024; (Attendee) 2012 – present

TEACHING

- **VEM5823 Laboratory Animal Medicine Clerkship** (Course Coordinator), 2026 – present
- **VME5141 Comparative Immunology** (Instructor), 2026 – present
- **VEM5143 Small Animal Applied Microbiology** (Instructor), 2018 – present
- **VEM5823 Laboratory Animal Medicine Clerkship** (Instructor), 2024 – 2025

- **VEM5150 Animal Systems I** (Teaching Assistant), 2012 – 2013
  - Endocrinology Microanatomy Lab, FA 2012, FA 2013
  - Embryologic Development and Tissue Organization Lab, FA 2012, FA 2013
  - Integument Microanatomy Lab, FA 2012, FA 2013
- **VEM51111 Animal Systems II** (Teaching Assistant), 2013
  - Musculoskeletal Microanatomy Lab, SP 2013
  - Cardiology Microanatomy Lab, SP 2013
  - Respiration Microanatomy Lab, SP 2013
  - Reproduction Microanatomy Lab; SP 2013
- **VEM5112 Animal Systems III** (Teaching Assistant); 2013
  - Digestion Microanatomy Lab; SP 2013
  - Renal Microanatomy Lab; SP 2013

COLLEGE SERVICE

- DVM Admissions Committee, 2025 – present
- Vet Camp Application Review, 2025 – present
- Community Building and Engagement Committee, 2023 – present
- Animal Research Liaison, CVM Faculty and UF Animal Care and Use Program, 2022 – present
- Search Committee for Assistant Scientist Position, IDI, 2025
- Vet Start Mentorship Program, 2024

INSTITUTIONAL SERVICE

- Institutional Animal Care and Use Committee Veterinary Consultant, 2022 – present
- IACUC Attending Veterinarian Alternate Voting Member, 2022 – present

MENTORSHIP

- Committee Member, Yihan (Nancy) Xia, Master of Science, Veterinary Medical Science, 2024 – present
- Special Committee Member, Natalia Carrosco-Rojas, Doctor of Philosophy, Medical Science, 2024 – present
- Pre-DVM Mentor, Taylor Steiner (prospective DVM class of 2030), 2024 – present
- Pre-DVM Mentor, Melanie Zamora (current DVM class of 2029), 2022 – present
- Pre-DVM Mentor, Mariah Watson (DVM class of 2024), 2015 – 2024

PUBLICATIONS

1. **von Chamier M**, Reyes L, Hayward LF, Brown MB. Nicotine Induces Maternal and Fetal Inflammatory Responses Which Predispose Intrauterine Infection Risk in a Rat Model. Nicotine Tob Res. 2021 Aug 29;23(10):1763-1770. doi: 10.1093/ntr/ntab080. PMID: 33894055, PMCID: PMC8403242

2. Watkins JM, **von Chamier M**, Brown MB, Reyes L, Hayward LF. Prenatal infection with Mycoplasma pulmonis in rats exaggerates the angiotensin II pressor response in adult offspring. Am J Physiol Regul Integr Comp Physiol. 2020 Feb 1;318(2):R338-R350. doi: 10.1152/ajpregu.00194.2019. Epub 2019 Dec 18. PMID: 31850818
3. **von Chamier M**, Reyes L, Hayward LF, Brown MB. Impact of gestational nicotine exposure on intrauterine and fetal infection in a rodent model. Biol Reprod. 2017 May 1;96(5):1071-1084. doi: 10.1093/biolre/iox025. PMID: 28419180, PMCID: PMC5803783
4. Brown MB, **von Chamier M**, Allam AB, Reyes L. M1/M2 macrophage polarity in normal and complicated pregnancy. Front Immunol. 2014 Nov 24;5:606. doi:10.3389/fimmu.2014.00606. eCollection 2014. Review. PMID: 25505471, PMCID: PMC4241843
5. Allam AB, **von Chamier M**, Brown MB, Reyes L. Immune profiling of BALB/C and C57BL/6 mice reveals a correlation between Ureaplasma parvum-Induced fetal inflammatory response syndrome-like pathology and increased placental expression of TLR2 and CD14. Am J Reprod Immunol. 2014 Mar;71(3):241-51. doi:10.1111/aji.12192. Epub 2013 Dec 27. PMID: 24372928, PMCID: PMC3927638
6. **von Chamier M**, Allam A, Brown MB, Reinhard MK, Reyes L. Host genetic background impacts disease outcome during intrauterine infection with Ureaplasma parvum. PLoS One. 2012;7(8):e44047. doi: 10.1371/journal.pone.0044047. Epub 2012 Aug 29. PMID: 22952869, PMCID: PMC3430619
7. Ekiri AB, MacKay RJ, Gaskin JM, Freeman DE, House AM, Giguère S, Troedsson MR, Schuman CD, **von Chamier MM**, Henry KM, Hernandez JA. Epidemiologic analysis of nosocomial Salmonella infections in hospitalized horses. J Am Vet Med Assoc. 2009 Jan 1;234(1):108-19. doi: 10.2460/javma.234.1.108. PMID: 19119974

Google Scholar Metrics (2/21/26)	All	Since 2021
Citations	419	201
h-index	6	5
i10-index	6	4

ABSTRACTS AND PRESENTATIONS

1. Carrasco-Rojas NE, Dawson RJ, Choi C, Shin B, **von Chamier MM**, Gallastegui A, Milner RJ, Bolch WE. A Beagle Dog Mesh-Type Phantom for Application to Nuclear Medicine and Internal Dosimetry: SU-330-GPD-R-38. Medical Physics, **2025** Oct 52(10): e70059133-e70059134.
2. Shin B, Milner RJ, **von Chamier MM**, Carrasco-Rojas NE, Choi C, Aris JP, Gallastegui A, Chan AM, Bolch WE. Voxel-Based Micro-Yucatan Minipig Phantoms for Use in Internal Dosimetry: SU-330-GPD-R-28. Medical Physics, **2025** Oct 52(10): e70059130-e70059131.
3. Taylor B, **von Chamier M**, Dayani S, Nickerson KP, Woods CL, Eurell L. Detection of Helicobacter in African Spiny Mice (Acomys cahirinus) (Poster 214). Presented at: 75th Annual AALAS National Meeting, Nashville, TN. **2024**.
4. Taylor B, **von Chamier M**, Aguirre JI, Eurell L. Acute Toxicity Associated with Nyanzol-D Fur Dye in Weanling Marsh Rice Rats (Oryzomys palustris) (Poster 215). Presented at: 75th Annual AALAS National Meeting, Nashville, TN. **2024**.

5. **von Chamier M**, Michaels DM, Brown MB. Fetal Sex Differences May Obscure Impacts of Experimental Treatments in a Rat Model of Perinatal Nicotine Exposure and Infection (Poster 329). J Am Assoc Lab Anim Sci. 2022 Sep 1;61(5):506-589. Presented at: 73rd Annual AALAS National Meeting, Louisville, KY. **2022.**
6. **von Chamier M**, Michaels DM, Brown MB. Fetal sex impacts the interaction of nicotine, the fetal inflammatory response, and intrauterine infection with Mycoplasma pulmonis in a pregnant rodent model (Poster 46). Presented at: UF College of Veterinary Medicine Phi Zeta Research Symposium, Gainesville, FL. Postdoc poster competition- 2nd Place. **2022.**
7. **von Chamier M**, Reyes L, Hayward LF, Brown MB. Intrauterine infection with Mycoplasma pulmonis is altered by maternal nicotine exposure in a dose-dependent manner (Abstract 14). Presented at: 22nd Congress of the International Organization for Mycoplasmology, Portsmouth, NH. **2018**.
8. **von Chamier M**, Reyes L, Hayward L, Brown MB. Gestational nicotine exposure impact on maternal and intrauterine infection is dose-dependent. J Am Assoc Lab Anim Sci. 2017. Sept;56(5):692 (Abstract PS129); Presented at: 68th Annual AALAS National Meeting, Austin, TX. **2017**.

EXTERNAL FUNDING

- **NCI Project ID: 1P01CA272222-01A1** Title: Microscale Radionuclide S-values for αRPT; Project duration: 9/19/23 - 8/31/28; PI: Wesley Bolch (CoE); Direct: $1,381,226**;** Indirect: $624,028; Total: $2,005,254; **SubProject UFIRST ID: PRO00048124** Title: Imaging, Dosimetry, and Radiobiology in Support of Optimal Alpha-Emitter Radiopharmaceutical Therapy; MVC role: **Key Personnel (CVM);** Status: Current (9/19/23 - 8/31/28); Co-I: Rowan Milner (CVM)**;** Total: $146,560
- **USDA 2020-38503-31949** Title: Vet Start Mentoring Program; UFIRST ID: AWD08284; myUFL link: P0171783; MVC role: **Key Personnel (ACS);** Status: Ended 2024; PI: Michael Bowie (CVM)**;** Duration: 7/1/20 - 6/30/24**;** Total $86,342

PROPOSALS SUBMITTED

- **NIH ID: 1R01HD121738-01**; Title: Fetal Intrinsic Factors Impacting Intra-amniotic Inflammation Phenotype and Severity; UFIRST ID: PRO00067957 Project period: 04/01/2026 - 03/31/2031; **PI: Maria von Chamier (CVM);** Status: Pending Council Review; Direct: $1,200,000**;** Indirect: $642,000**;** Total proposed budget: $1,842,000; Impact score 61**;** Percentile: 52
- **UF CVM Fall 2025 Faculty Competition**; Title: Comparative characterization of amniotic epithelial and umbilical cord vascular endothelial cell role in fetal inflammatory response; **PI: Maria von Chamier (CVM);** Status: not awarded; Proposed duration: 1 year (2025-6)**;** Proposed budget: $12,000

PROPOSALS IN PREPARATION

- **NIH ID: 1R01HD121738-01** (Resubmission); Title: Fetal Intrinsic Factors Impacting Intra-amniotic Inflammation Phenotype and Severity**;** Project duration: 04/01/2027 -

03/31/2032; **PI: Maria von Chamier (CVM)**; Status: in preparation; Direct: $1,200,000; Indirect: $642,000; Total proposed budget: $1,842,000

- **UF CVM Spring 2026 Faculty Competition**; Title: Comparative characterization of amniotic epithelial and umbilical cord vascular endothelial cell role in fetal inflammatory response (resubmission); **PI: Maria von Chamier (CVM)**; Status: in preparation; Proposed duration: 1 year (2026-7); Proposed budget: $12,000

OTHER LICENSURE AND REGISTRATION

- **Researcher Registration, CIII – CIV**, Drug Enforcement Agency, Pending
- **Exemption Letter**, Florida Board of Pharmacy, Department of Business and Professional Regulation 2025 – present

RISK ASSESSMENTS AND SECURITY CLEARANCES

- Animal Contact Program, UF Occupational Medicine, Current
- Security Clearance, Veteran's Affairs Hospital, Gainesville, FL, 2023 – present
- Youth Protection Trained and FBI LiveScan, UF Human Resources, 2024
- Animal Biosafety Level-3 Security Risk Assessment, UF EHS, 2010

UF ANIMAL CARE AND USE PROTOCOLS

- IACUC202400000216- Comparative characterization of models of fetal inflammatory response; PI: Maria von Chamier (CVM); Species: Mouse; Status: Ancillary Safety Review
- IACUC202300000229- Optimal Alpha-Emitter Radiopharmaceutical Therapy; PI: Rowan Milner (CVM); Species: Miniature Swine; Status: Approved 9/29/23
- IACUC202500000002- Tissue Acquisition for Beagle Phantom; PI: Maria von Chamier (ACS); Species: Canine (Tissue); Status: Pre-Submission
- IACUC202200000216- Nicotine as a Risk Factor for Genital Infection; PI: Mary Brown (CVM); Species: Rat; Status: Lapsed; Triennial in Pre-Submission

UF IRB APPROVAL

- PI: Helen Jones (COM); Source: UF Health Obstetrics patients; Tissue: Healthy human umbilical cord and amniotic membrane; Amendment Pending

UF EHS PERMITS AND ASSESSMENTS

- BIO7534; Title: Mollicutes Studies; Biosafety Level: BSL-2, ACP-2; PI: Mary Brown (CVM); 1/15/26
- LATCH15753 Assessment for BSL-2 Mycoplasma Laboratory (V2-208, V2-232, V2-234); PI: Mary Brown (CVM); 6/4/25
- LATCH17557 Assessment for Animal Models and Tissue Processing (V2-232, V2-234); **PI: Maria von Chamier (CVM)**; 2/20/26; addition of presumed healthy human cells pending

PAST FUNDING PROPOSALS

- **NIH — Funding opportunity: Utilizing Equipment to Study Environmental Extrinsic Factors and Enhance Rigor and Reproducibility of Animal Research (R24, Clinical Trials Not-Allowed)**; Title: Investigating the effect of extrinsic environmental factors on rodent research; MvC role: **Co-Investigator (ACS)**; Status: submission withdrawn due to unmet requirement that equipment be commercially available upon application; UFIRST ID: PRO00070185; Proposed duration: 7/1/2026 - 6/30/2030; PI: Michelle Gumz (COM); Proposed budget (total direct and indirect): $2,244,920
- **NIH — R21 proposal under PA-20-195**; Title: Nicotine as a Risk Factor for Sexually Transmitted Infection; MvC role: **Co-Investigator (CVM)**; Status: not funded; PI: Mary Brown (CVM); Proposed budget (total direct and indirect): $419,375; UFIRST ID: PRO00047251 ; Proposed duration: 4/1/2023 - 3/31/2025; Resubmit: UFIRST ID: PRO00052113; Proposed duration: 10/1/2023 - 9/30/2025
- **NIH — R21 proposal under PA-20-195**; Title: Nicotine as a Risk Factor for Sexually Transmitted Disease; MvC role: **Co-Investigator (CVM)**; Status: not funded; PI: Mary Brown (CVM); Proposed budget (total direct and indirect): $419,375; UFIRST ID: PRO00038110 ; Proposed duration: 9/1/2021 - 8/31/2023; Resubmit: UFIRST ID: PRO00043259; Proposed duration: 7/1/2022 - 6/30/2024
- **NIH — Funding opportunity: Electronic Nicotine Delivery Systems (ENDS): Basic Mechanisms of Health Effects (R21 - Clinical Trial Not Allowed)**; Title: Impacts of Vaping Components on Maternal Infection; MvC role: **Co-Investigator (CVM)**; Status: not funded; UFIRST ID: PRO00029042; Proposed duration: 7/1/2020 - 6/30/2022; PI: Mary Brown (CVM); Proposed budget (total direct and indirect): $419,375
- **NIH — Funding opportunity: Research Enhancement Award Program (REAP) for Health Professional Schools and Graduate Schools (R15 Clinical Trial Not Allowed)**; Title: Nicotine as a Risk Factor for Genital Infection; MvC role: **Co-Investigator (CVM)**; Status: not funded; UFIRST ID: PRO00024758; Proposed duration: 9/1/2019 - 8/31/2021; PI: Mary Brown (CVM); Proposed budget (total direct and indirect): $457,500
- **FL DOH James and Esther King Biomedical Research Program**; Title: Nicotine as a Risk Factor for Genital Infection; MvC role: **Co-PD/PI (CVM)**; Status: not funded; UFIRST ID: PRO00022974 Proposed duration: 4/1/2019 - 3/31/2022; PI: Mary Brown (CVM); Proposed budget (total direct and indirect): $851,475
- **NIH — R15 proposal under PA-18-504**; Title: Nicotine as a Risk Factor for Genital Infection; MvC role: **Co-Investigator (CVM)**; Status: not funded; UFIRST ID: PRO00020965; Proposed duration: 7/1/2019 - 6/30/2021; PI: Mary Brown (CVM)
  Proposed budget (total direct and indirect): $457,500
- **NIH — R01 proposal under PA-18-484**; Title: Nicotine, Infection & the Placental Barrier; MvC role: **Co-Investigator (CVM)**; Status: not funded; UFIRST ID: PRO00020692;

Maria von Chamier, DVM DACLAM PhD

Proposed duration: 4/1/2019 - 3/31/2024; PI: Mary Brown (CVM) ; Proposed budget (total direct and indirect): $1,906,250