

Detailed Program Description for ACVD Website

1. Program name and location: Colorado State University (CSU), James L. Voss Veterinary Teaching Hospital (VTH), Fort Collins, Colorado
2. Has the program ever been placed on ACVD probation within the past 8 years? No
3. Mentor: Jeremy Bachtel DVM, MS, DACVD

Years in ACVD: six years

Years as Mentor: one year as a co-mentor

4. Specific requirements for applying to the program:

All residents require at least one year internship or equivalent experience. Candidates often have specialty internship experience or several years of practice experience. Contact Dr. Bachtel (jeremy.bachtel@colostate.edu) for questions regarding experience.

Residents must meet the minimum requirements for the graduate program at Colorado State University. International residents are encouraged to contact Mandy Casteel-Denney, Academic Program Coordinator, to ensure graduate program and visa requirements can be met: mcasteel@colostate.edu.

Most positions are filled through the VIRMP matching program of the American Association of Veterinary Clinicians (AAVC). When CSU is in the match, applications are completed online at the AAVC Veterinary Internship & Residency Matching Program webpage. Competitive candidates with a financial sponsor (such as VCA) may be considered.

In accordance with CSU policy, residents and interns are not permitted to practice veterinary medicine in private/specialty veterinary practices in Colorado during their program.

An assignment as a veterinary resident with the Department of Clinical Sciences will require you to serve in the capacity of a veterinarian. The State of Colorado amended the "Colorado Veterinary Practice Act" (12-64-103(9)) in 2007 to require: "A veterinarian who is employed at a school of Veterinary Medicine in Colorado and who practices veterinary medicine in the course of his or her employment responsibilities shall either make written application to the board for an **academic license** in accordance with this section or shall otherwise become licensed pursuant to Sections 12-64-107 and 12-64-108." The department will reimburse applicants for the initial application, and for renewals of academic licenses every two (even) years. You must obtain this academic license **before** you start your residency training; you cannot practice veterinary medicine at the CSU VTH without this license (or a CO Veterinary License). More information on this process can be found at the following link: <http://www.dora.state.co.us/veterinarians/academic.html>".

Funded residents must register for a minimum of five credits for each semester (Fall and Spring) throughout the residency program to be classified as a full-time student. The Employee Study Privilege will cover the cost of tuition for up to nine credits per academic year (27 credits over three years) and the department will cover any tuition/fees over and above those included on the Employee Study Privilege. **It is very important that a resident establish Colorado residency status during the first year of their residency program to avoid the possibility of paying out of state tuition costs in the second and third years of the residency.** International residents will not be able to establish Colorado residency status. However, international residents will be eligible for tuition premium support from the graduate school for all three years in the residency program. This means the graduate school will cover the difference between in-state and out of state tuition costs for all eligible international residents.

The resident will also attend and contribute to resident/graduate seminars and journal club sessions during the year. The resident must complete a research project and two manuscripts suitable for publication to satisfy the graduate program requirements.

5. Length of residency in years: Three
6. Is a Master's degree or PhD required?

A plan B (non-thesis-based Master's degree) is required. This involves formal and independent study coursework, the development of two manuscripts (which can be applied to the ACVD requirements), and a final presentation and defense involving the resident's research project(s). The College of Veterinary Medicine and Biomedical Sciences will cover the cost of tuition.

****Residents and Interns will be responsible for paying taxes** on any amount of tuition that exceeds the \$5,250 benefit per year, as it will be considered taxable income. Per Federal law the University is not able to pay these taxes and it will be the responsibility of the Resident.

7. When the residency was first offered? July 2000
 - a. Has it been continuous since then? No.
 - b. If not continual what years was the residency offered?

In 2000 - 2003, a three-year combined MS/residency program was established by Dr. Ralf Mueller DACVD, DipECVD.

From 2008 - 2010, Dr. Sonja Zabel DACVD mentored a very similar program with two residents during that time.

From 2012 - July 2021, Dr. Jennifer Schissler DACVD mentored the residency program, averaging two residents concurrently.

Dr. Rod Rosychuk (DACVIM) has served as a co-mentor/educator for all years the

October 2021

residency has been offered.

8. How many residents have been accepted into the program since inception? Eight

a. How many of these have become board certified dermatologists?

Seven individuals are boarded, one just finished the residency.

9. What is the average annual dermatology caseload for the institution over the past 5 years?

New cases: 456 per year
Rechecks: 1304 per year
In-house consultations: 350 per year

10. What is the average total caseload seen during the entire residency? 1,983 cases

11. On average, how many new patients, rechecks, and consults does the program see per year?

New cases: $114 \times 3 = 342$ per residency
Rechecks: Average yearly recheck $427 \times 3 = 1281$ per residency
In-house consultations: $120 \times 3 = 360$ per residency

12. On average, what percentage of the program's cases are dogs and cats?

a. Dogs: 89%
b. Cats: 10%

13. On average, how many exotic, equine and farm animal cases does the program see per year?

a. Exotics: 4
b. Equine: 12
c. Farm animals: 5

14. What percentage of time is the mentor in clinics with the resident while the resident is seeing cases during the resident's:

First year: 95%
Second year: >80%
Third year: >80%

15. Does the program have access to other specialists? If so, please list:

- a. Anesthesiology
- b. Cardiology
- c. Microbiology
- d. Epidemiology
- e. Clinical pathology
- f. Anatomic pathology
- g. Radiology
- h. Radiation oncology
- i. Oncology
- j. Soft Tissue Surgery
- k. Orthopedic Surgery
- l. Ophthalmology
- m. Emergency and Critical Care
- o. Internal Medicine
- p. Theriogenology
- q. Neurology
- r. Equine Medicine Internal Medicine
- s. Equine Surgery
- t. Dentistry
- u. Production Animal Internal Medicine
- v. Production Animal Surgery
- w. Laboratory animal medicine
- x. Avian and exotic animal medicine
- y. Physical therapy, rehabilitation
- z. Nutrition
- aa. Sports Medicine and Rehabilitation

16. Please describe your library access:

The Colorado State University Veterinary Medical Center branch library is located in the Veterinary Teaching Hospital. Online journals are available, as well as many veterinary books and bound journals. The Morgan library on main campus is accessible by short drive or on-campus bus, and holdings can be transported between libraries in 24 hours or less. Electronic or bound journals that are not accessible at these libraries can be obtained via inter-library loan services. In most cases inter-library materials are available within 24 hours from the time of request on weekdays.

17. Does the program have statistical support for their residents' research projects?

Colorado State University has statistical support from the Statistics department and key faculty, and these services are sought prior to and after investigation to assure appropriate investigation design and data reporting.

18. Does the program have direct access to any basic science or clinical science laboratories that the resident can use for research purposes?

The College of Veterinary Medicine and Biomedical Sciences is comprised of four departments: Biomedical Sciences, Clinical Sciences, Environmental Health and Radiological Health Sciences, and the Microbiology, Immunology, and Pathology department. These departments have active research programs, providing potential opportunities for collaboration.

The Veterinary Diagnostic Laboratory is located within the Veterinary Medical Center. CSU Veterinary Diagnostic Laboratory is accredited (full service, all species) by the American Association of Veterinary Laboratory Diagnosticians (AAVLD) meeting standards based on ISO17025 / OIE. The laboratory is also a member of the National Animal Health Laboratory Network (NAHLN).

The laboratory offers a wide variety of services, including, but not limited to: bacteriology, virology, histopathology, endocrinology, therapeutic drug monitoring, toxicology, immunohistochemistry, molecular diagnostics, parasitology, necropsy and serology. These services are not only available for clinical use, but can be utilized for collaborative research efforts.

19. How often do the residents and mentors have the following rounds?

- a. Case rounds: Case rounds are four times per week for approximately one hour each session. Cases from the day are discussed in detail at the conclusion of receiving with senior students on service, with residents and the faculty member on clinics in attendance.
- b. Journal club: Journal club is conducted on a weekly basis. The session lasts for one-two hours and involves discussion and critical review of three to five recent publications in the field of veterinary dermatology. Articles are selected primarily from journals recommended for residents.
- c. Histopathology training: Residents attend dermatopathology rounds with dermatology faculty for one hour on a weekly basis. Submissions from the dermatology service as well as the Colorado State University Diagnostic Laboratory's histopathology service are reviewed. Sections from banks of histopathology slides involving a variety of species and conditions are also discussed to enhance breadth of study. As the resident's skills progress, the resident will present their case material to the faculty members. In the final year, the resident will also be prepared to describe "unknown" histopathology slides presented at the time of the sessions.
- d. Basic science learning rounds: These rounds are conducted for one hour

weekly. Structure and function of the skin is reviewed via assigned readings including primary literature reviews and textbooks. Review sessions also cover bacteriology, mycology, immunology, endocrinology, pharmacology and other topics essential for general understanding of veterinary dermatology. This is similarly accomplished via assigned readings from selected textbooks and primary literature. The mentor will provide practice questions for study and discussion. The resident may integrate these materials to create a study guide to prepare for the ACVD certifying examination.

20. Resident's benefits: (Please give a general list of benefits and then whom a potential candidate should contact to get more specific information on salary and benefit packages).

For employment benefits, please contact Mandy Casteel- Denney, (mcasteel@colostate.edu).

Salary: Salary starts at \$39,000 with annual increments. The salary will commence July 15th the first year of the residency, and will end July 15th of the final year of a three-year residency.

Fringe Benefits:

Vacation - Residents are allowed a maximum of 12 days of vacation per year to be taken at times as approved by their residency mentor. Vacation time may not be taken as terminal vacation at the end of the three-year residency program, or utilized to end the residency early.

Meetings - Residents will be permitted to attend one specialty or national meeting each year during their program with approval of the section chief and residency mentors. At this time residents are eligible for a minimum of \$1250.00 in travel money during their three-year program.

Externship - Residents may be allowed to take up to three weeks of their three-year program in some other job-related position relevant to their training program. Leave is to be approved and arranged at the discretion of the residency mentors.

Insurance - Residents are eligible for a suite of benefits including medical, dental, vision, and disability insurance, life and voluntary accidental death insurance, participation in flexible spending reimbursement accounts, sick leave accrual and employee study privilege. Enrollment in a retirement plan is required and is effective upon the date of employment and includes and employer match starting in year 2 of employment. Residents are also covered by workmen's compensation and liability insurance.

Please note that salary and some benefits are dependent upon whether or not the residency is sponsored by the college, another sponsor, or self-funded. For specific program details, please see contact Mandy Casteel-Denney (mcasteel@colostate.edu).

21. Does the program allow the resident to attend the NAVDF (North American Veterinary Dermatology Forum) meeting annually? Yes.
22. Does the program pay for the resident to attend the NAVDF meeting annually?
No. There is a total for travel of \$1250.00 during the residency.
23. Average number of days a resident will spend on clinics per month: 16

Cases are scheduled 4 days a week, with in-house consultations five days per week. Therefore, residents are on clinical duty five days a week, Monday through Friday. Wednesday is primarily reserved for study and rounds, emergency dermatology consultations notwithstanding.

Additionally, three weeks of off-clinic time (not including the NAVDF meeting or vacation) per year may be approved by the mentors during the three-year residency to pursue their research project and other scholarly pursuits.

24. Average number of days a resident will spend on non-clinical pursuits per month (not including Sundays or holidays): Six days.
25. Does the resident have to take general medicine emergency duty? No.
26. Does the resident take Dermatology emergency duty?

Yes. There is a 24/7 emergency and critical care department. Residents are on call to give dermatology advice to those clinicians as needed. This is often completed over the phone, and occasionally in person. Dermatology faculty on-call backup is available.

27. Is time allotted for externships in other subspecialties or at other dermatology practices?

Yes. Residents may be allowed to take up to three weeks of their three-year program in some other job-related position relevant to their training program. Leave is to be approved and arranged at the discretion of the residency mentors.

28. How much time is allotted off clinics for board preparation?

There is not a specific period of time allotted. The residency concludes mid-July. Upon mentor approval, the resident may be able to organize off-clinic time to allow for boards study (two-four weeks) at the end of the residency. The resident is expected to review exam subject matter throughout the residency.

29. How much time is allotted to carry out a research project (grant writing, data collection, paper preparation) during the residency?

Up to nine weeks may be potentially scheduled at the discretion of the residency mentors and are counted towards allotted off-clinic time. Off-clinic time must be organized four weeks ahead of the time off to accommodate the receiving schedule. Most residents take three weeks off each year for approved off-clinic activity.

30. What are the other responsibilities/duties of the resident?

The resident is required to provide veterinary students case-based clinical instruction as well as facilitate case and subject rounds on receiving days. Residents must satisfy course requirements, grade requirements, research and publication requirements, and pass a final oral examination to obtain their residency certificate.

31. How many residents has the program had over the past 10 years? Five.

32. How many/what percentage of the above residents passed credentials on the:

- a. First submission? Five (100%)
- b. Second submission?
- c. Third submission or more?
- d. Never passed credentials?

33. How many/what percentage of the above residents sat boards for the first time:

- a. The year they finished their residency? Four
- b. One year after finishing their residency?
- c. Two or more years after finishing?
- d. They never took boards? One - The individual is currently studying for board examination.

34. How many/what percentage of the above residents (question 31) passed the board exam on their:

- a. First time taking the exam? Three (60%)
- b. Second time taking the exam? One (20%)
- c. Third time or more taking the exam?
- d. Never passed? One - The individual is currently studying for board examination.

35. Is your residency program reviewed by an outside committee at your university? If yes, how often? Yes, annually.

36. Please list the papers published by your last 5 residents:

Soohoo J, Daniels JB, Brault SA, Rosychuk RAW, Schissler J. Efficacy of three disinfectant formulations and a hydrogen peroxide/silver fogging system on surfaces experimentally inoculated with methicillin resistant *Staphylococcus pseudintermedius*. *Vet Dermatol* 2020 Oct;31(5): 350-e91.

Souza CP, Schissler JR, Contreras ET, Dow SW, Hopkins LS, Coy JW, Rosychuk RAW, Hawley JR, Lappin MR. Evaluation of immunological parameters in pit bull terrier-type dogs with juvenile onset generalized demodicosis and age-matched healthy pit bull terrier-type dogs. *Vet Dermatol*. 2018 Dec;29(6):482-e162.

Souza CP, Rosychuk RAW, Contreras ET, Schissler JR, Simpson AC. A retrospective analysis of the use of lokivetmab in the management of allergic pruritus in a referral population of 135 dogs in the western USA. *Vet Dermatol*. 2018 Dec;29(6):489-e164.

Simpson AC, Schissler JR, Rosychuk RAW, Moore AR. The frequency of urinary tract infection and subclinical bacteriuria in dogs with allergic dermatitis treated with oclacitinib: a prospective study. *Vet Dermatol*. 2017 Oct;28(5):485-e113.

Bachtel JC, Pendergraft JS, Rosychuk RA, et al. Comparison of the stability and pharmacokinetics in dogs of modified ciclosporin capsules stored at -20°C and room temperature. *Vet Dermatol*. 2015 Aug;26(4):228-e50.

37. Names of your last 5 residents and whether they are willing to be contacted by potential residents: all can be contacted at the following email addresses:

Callum Bennie: callum@vetdermclinic.com.au
Julie Soohoo: julie.soofoo@gmail.com
Clarissa Souza: cpsouza@illinois.edu
Andrew Simpson: andrew.simpson@vca.com
Jeremy Bachtel: current mentor