

**AMERICAN COLLEGE OF VETERINARY RADIOLOGY**

**RECOGNIZED VETERINARY SPECIALTY OF RADIATION ONCOLOGY (ACVR-RO)**

**RESIDENCY TRAINING PROGRAM RE-APPROVAL APPLICATION**

NOTE: Some questions in this form are included for data collection purposes. The inclusion of an item does not necessarily imply that the item is a program requirement for ACVR-RO residency program. Please refer to the current Radiation Oncology Training Program Guidelines for comprehensive residency training requirements. This document may be downloaded from Members Only Downloads section of the ACVR website at <http://www.acvr.org>.

**APPLICATION INSTRUCTIONS:**

Training program directors wishing to have their programs evaluated should submit this electronic form and appropriate attachments electronically to the Chair of the Residency Standards and Evaluation Committee (RSEC) and to the Assistant Executive Director of the ACVR. The application must be received by **January 31st** of the third year following initial program approval / last re-approval. The RSEC will evaluate the application, a vote will be taken, and the results of the vote and the majority recommendation of the committee forwarded to the President of the Recognized Veterinary Specialty for consideration at Executive Council at one of the two annual meetings.

For the required ACVR and ACVIM Diplomates providing consultation in medical oncology and imaging, that are new to the program, please provide a brief 2-page curriculum vitae and specify the number of weeks each year that the individual will be available to actively support the radiation oncology resident.

**ACVR-RO RESIDENCY STANDARD TRAINING PROGRAM RE-APPROVAL APPLICATION**

1. Date of Application

January 31, 2015

Date of Initial Program Approval

1997

Date of Last Re-approval

2012

2. Program Director(s): (Must be a Diplomate of ACVR Recognized Veterinary Specialty of Radiation Oncology)

Susan M. LaRue, DVM, Ph.D  
Diplomate ACVS, ACVR (Radiation Oncology)

Program Director's Contact Information:

Work Phone:	970-297-0334	
Fax:	970-297-1254	
E-mail:	<a href="mailto:slarue@colostate.edu">slarue@colostate.edu</a>	

3. Additional ACVR-RO Diplomates supporting the program (not Program Directors)

James T. Custis  
Susan L. Kraft  
Lynn Griffin

Numbers of weeks per year an ACVR-RO Diplomate is available to resident on a daily basis.

52

4. Do you have a radiation oncology resident in training at this time?

Yes	No
x	

5. Name of resident(s)

Hiroto Yoshikawa  
Katie Swift  
Kelsey Pohlmann  
Beatrix Jenei

Is/are the resident(s) in an approved Standard program or an Alternative program:

Standard	Alternative
X	

6. Dates of training program (Please list only those dates of the actual training program. Time spent by the resident at your facility prior to beginning or following the completion of the actual training program should not be included.)

Dates of training program for resident (1) (mm/dd/yy)

07/16/12-07/10/15

Dates of training program for resident (2) (mm/dd/yy)

07/15/13-07/15/16

Dates of training program for resident (3) (mm/dd/yy)

07/15/12-07/15/16

Dates of training program for resident (4) (mm/dd/yy)

01/12/2015-7/15/17

7. Location of Primary Institution

Primary Site:

Colorado State University Flint Animal Cancer Center

Department

Environmental and Radiological Health Sciences

Hospital/University

Colorado State University Voss Veterinary Teaching Hospital

Address

300 West Drake Road

City, State Zip Country

Fort Collins, CO, 80525

8. Cooperating Institution(s) (If applicable):

Department

Hospital/University

Address

City, State, Zip, Country

For cooperating institutions, attach letters of agreement signed on behalf of the institution(s) by appropriate individual(s).

9. Length of Training Program (months):

24-36 months  
The 3 year program is recommended for recent veterinary graduates who have come from an internship for from a 2 year or less background in general veterinary medicine. We will consider residents for a 2 year program if they have a more extensive history of practice experience (and the maturity that would be associated with that) or residency training in a related subject, such as medical oncology, radiology or surgery, or an

advanced degree in a related area, such as Cancer Biology, Radiation Biology or Radiation physics. We make the decision based on evaluation of their application and in personal interviews. We have had some residents who met criteria for 2 year who preferred the 3 year program so they could do additional radiation, clinical or research out rotations. We have expanded our residency program to provide flexibility in designing a program for the needs of the individual resident. For example, we will sometimes suggest additional months on medical oncology for residents where English is their second language. However, regardless of the individual's program, all ACVR requirements are met or exceeded.

If greater than 2 years, will this period include 24 months of continuous training in radiation oncology?

Yes	No
x	

10. Number of months dedicated solely to radiation oncology training (excluding time on Medical Oncology service, Radiology/Imaging, etc.)

18-24

11. Advanced Degree:

	Yes	No	Optional
Masters:	x		
PhD:			x

12. Essential Program Faculty: individual faculty member may serve in only one capacity

**Please list all qualified faculty in support of program**

a. Diagnostic Radiologist(s): (Must be Diplomate(s) of the ACVR)

Angela Marolf  
 Elissa Randall  
 Sean Adams

Number of weeks per year an ACVR – Radiology diplomate is available to resident on a daily basis.

52
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Faculty member on site?

Yes	No
x	

If off site, please explain relationship.

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- b. Medical Oncologist(s): (must be Diplomate(s) of ACVIM, Specialty of Oncology)

Susan Lana Doug Thamm Barbara Biller Kristen Weischar
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Number of weeks per year an ACVIM-Oncology Diplomate is available to resident on a daily basis.

52
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Faculty member on site?

Yes	No
x	

If off site, please explain relationship

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- c. Surgeon(s): (must be Diplomate(s) of the ACVS)

Bernard Seguin (ACVS, Fellow in Surgical Oncology)  
Nicole Ehrhart (ACVS, Fellow in Surgical Oncology)  
Deanna Worley (ACVS, Fellow in Surgical Oncology)

Number of weeks per year an ACVS faculty member is available to resident on a daily basis.

52

Faculty member on site?

Yes	No
x	

If off site, please explain relationship.

d. Pathologist(s): (must be Diplomate(s) of the ACVP)

EJ Ehrhart  
Barbara Powers

Number of weeks per year an ACVP faculty member is available to resident on a daily basis.

52

Faculty member on site?

Yes	No
x	

If off site, please explain relationship.

Please list all additional board certified specialists in direct support of the program. If offsite, please explain relationship.

Name	Certifying College / Board
Dr. Steve Jones, Ph.D, Medical Physicist	Diplomat, American Board of Radiology:
Dr. Michael Seamons	Diplomat, American Board of Radiology:
Clin Path Staff: Paul Avery, Andrea Bohn, Chirstine Olver, Glade Weiser	ACVP (Clin Path)
Anesthesia staff: Pete Hellyer, Kursheed Mama, Pedro Boscan, Marlis Rezende,	ACVA
Critical Care Staff CSU-VTH: Lauren Sullivan, Justin Mathis, Timothy Hackett	ACVECC
Neurology Staff: Rebecca Packer, Stephanie Engel	ACVIM (Specialty of Neurology)
Ophthalmology Staff: Cynthia Powell, Kate Freeman	ACVO
Internal Medicine Staff CSU-VTH: Dave Twedt, Michael Lappin, Jessica	ACVIM (Specialty of Internal Medicine)
Exotics: Terry Campbell, Mathew Johnson	AAV

**COMMENTS ON RADIATION ONCOLOGY RESIDENT RESPONSIBILITIES**

13. How does resident receive training in Medical Oncology? What is time allotted for this training? Please provide description of formal and informal training experiences.

As directed by ACVR (RO) residents in this program will spend no less than 2 months rotating through the clinical oncology service. This experience is enhanced because the Clinical Oncology service has an ongoing residency program for ACVIM (Medical Oncology), which is directed by Dr. Susan E. Lana, DVM, MS. Additionally, radiation oncology residents attend Oncology Rounds (Integrated Medical, Surgical and Radiation Oncology) twice each day. In addition, residents are advised to take VS703(Post-graduate medicine) during the semesters that includes oncology (see syllabus)



14. How is resident trained in diagnostic imaging? What is time allotted for this training? Please provide description of formal and informal training experiences.

As directed by ACVR (RO) residents in this program will spend no less than 1 month rotating through the diagnostic radiology. Residents are advised to take two radiology classes, R701 and R711 (see syllabi). Additionally, the resident works with a radiologist with the advanced imaging of every treatment plan that they create. Residents who are not making sufficient progress in evaluating diagnostic images may be assigned spend additional time rotating through the Radiology Service. This determination will be made at the semi-annual evaluation.

15. How is resident trained in radiation biology? Please provide description of formal and informal training experiences.

Residents are required to take ERHS 550, a 5 credit course in radiation biology taught by faculty members in EHRS that is available each spring semester and is generally taken during the first year of residency. This course is the most important course that residents take during their program, and provides a framework for understanding basic and clinical radiation biology. (see syllabus for content and instructors). Most residents are advised to take ERHS 751. This is an advanced radiation biology courses that go into extensive detail on DNA repair, radiation carcinogenesis, tumor cell kinetics and advanced topics in radiation oncology. This course is only offered when there is a critical mass of upper level graduate students, so it cannot be a required course for the residency.

16. How is resident trained in cancer biology? Please provide description of formal and informal training experiences.

The Cell and Molecular Biology program at CSU a program in Cancer Biology. Although the residents will not be enrolled in that specific program, they will benefit by the additional courses that have been developed. Currently cancer genetics (ERHS 611) and cancer biology (ERHS 510) are offered each year. These courses are taught by a variety of faculty members that are listed in the syllabi. Cancer biology is frequently addressed in the radiation biology seminars, the Animal cancer center weekly seminars, the journal clubs (med onc and radiation oncology) and in rounds.

17. How is resident trained in radiation oncology physics? Please provide description of formal and informal training experiences.

We are searching for a dedicated medical physicist for our program. Currently, our physics support is provided by Dr. Steve Jones and Michael Seamon of Centennial Physics Services. They are responsible for all regulatory issues regarding the machine (inspections, monthly QA, patient QA, etc). We have contracted their services for additional hours each week dedicated to working with the residents. On Friday mornings we have physics rounds where we discuss plans for individual patients. The plans are

critiqued and discussion is focused specifically on the physical aspects of the plan. In addition, on Friday afternoons the physicists lead a “journal club” where a chapter of the 5<sup>th</sup> edition of the Khan radiation physics textbook is discussed. The residents have readings prior to the session and also have homework assignments relating to the chapters. Dr. Custis and I have deemed this a “no interruption time” for the residents, and we cover all service related activities during that time. We anticipate that a full time physicist will be in place by FALL 2015 and the didactic training will be resumed at that time. This will include ERHS 714, a 3 credit course that covers radiation interaction and medical physics including less common modalities such as brachytherapy and proton therapy. This is required for our residents. rounds.

#### How is resident trained in anesthesia?

1. Our anesthesia service is available for consultation with our staff and residents. A decision is made on each patient regarding the level of monitoring required. Our hospital anesthesia service provides anesthesia for high risk patients. They advise on protocols for individual patients. They also provide back-up support should our anesthetist have problems.
2. Anne Golden an experienced anesthesia technician who worked as an anesthesia supervisor at CSU for many years, is employed by our radiation oncology service to supervise anesthesia. She is available for any questions our anesthetist may have, and for back-up. She is responsible for machine and monitor maintenance. She is responsible for teaching radiation residents how to troubleshoot anesthesia equipment, and instructs them on the use of ventilators, neuromuscular agents, calculation of CRIs and in the selection of appropriate protocols. Residents are required to spend one week being the primary anesthetist under her supervision. She also evaluates residents during semi-annual evaluations.
3. During our weekly huddle, anesthesia protocols/concerns are discussed with the anesthetist.

18. Please list any formal courses and their instructors included in the residency training curriculum. Please attach syllabi and instructor credentials for each listed course.

**Required Courses** for Residency (syllabi included in appendix, and bibliographic sketch of instructor included in appendix under supporting faculty)  
 ERHS714 Radiation Therapy Physics (TBD) (This course was not taught in 2014 since the second year resident had taken the course as a graduate student, therefore there is no syllabus for 2014. We are actively seeking a faculty radiation physicist to teach this course Fall 2015)  
 ERHS550 Principles of Radiation Biology (Bailey, Bedford, and LaRue) This course has now switched to every other year, even years. Last syllabus 2014.  
 ERHS721 Radiation Oncology (LaRue, Custis, Griffin) This course is taught every other year. It was last

<p>taught in 2013, so there is no 2014 syllabus.)</p> <p>ERHS770 Radiation Biology Basic to Tumor Therapy (Student seminar, required for 2 semesters)</p> <p>ERHS784 Supervised College Teaching (LaRue, Custis)</p> <p>ERHS792 Seminars (Faculty, guest and/or student seminars)</p> <p>ERHS501 Cancer Biology (Liber et al. )This is the correct course number.</p> <p><b>Suggested Elective Courses (Selected syllabi are included in appendix.)</b></p> <p>EH701 Environmental Carcinogenesis (various instructors)</p> <p>ERHS701 Radiographic Techniques (Diagnostic radiology staff)</p> <p>ERHS711 Radiographic Interpretation (Diagnostic radiology staff)</p> <p>ERHS751 Advanced Radiobiology I (Nickoloff, Bailey, Bedford)</p> <p>ERHS595/R795 Independent Study in diagnostic imaging (Kraft)</p> <p>ERHS611 Cancer Genetics(Weil)</p> <p>VS605/606 Comparative Anesthesiology/Lab (Dr. Khursheed Mama). This course is only offered every 3<sup>rd</sup> year, and often conflicts with essential courses.</p> <p>VS 701-704 Postgraduate Medicine I-IV (Lana, Withrow, Thamm, Biller, etc). <b>RECOMMENDED</b> but not required for residents with background in related disciplines that make this course redundant.</p> <p>Biomedical Statistics: (there are a number of different courses available that meet the residency and departmental requirement)</p> <p><b>Other Available Elective Courses</b></p> <p>The College of Veterinary Medicine and Biomedical Sciences offers a wide range of graduate level courses that may be relevant and of interest to individual residents. The catalog is available on line at: <a href="http://welcome.colostate.edu/index.asp?url=catalog">http://welcome.colostate.edu/index.asp?url=catalog</a></p>
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19. Does the resident participate in clinical rounds on a daily basis while on clinical rotations? Is a supervising Diplomate available for the majority of rounds? If no, please describe how rounds are attended and supervised.

Yes	No
x	
Comments:	Twice daily integrated rounds with rad onc, med onc and surg onc regardless of oncology assignment.

20. Are formal conferences, such as clinicopathologic conferences, journal clubs, or seminars held on a weekly basis?

Yes	No
Comments:	Formal conference are available from many disciplines, including radiation oncology weekly rounds with faculty and staff, physics round, Radiation Biology Seminar, Radiation oncology journal club, morbidity and mortality rounds, Sarcoma Board (teleconferenced from human cancer center), Surgical path rounds, the Animal Cancer Center Seminar Series and the Cell and Molecular Biology Seminar.

21. Please provide a description of the conferences, etc., that are provided and the typical schedule.

**Radiation Oncology Faculty and Staff Rounds:** Weekly rounds where the radiation oncology group meets with the clinical oncology staff and pathologists to discuss patients receiving radiation therapy. The residents present the treatment plan of each case, and explain radiobiological rationale. Aspects of the plan, such as beam modifiers, boluses, isodose distributions and dose volume histograms are discussed. Management of acute and late radiation effects of discussed. **Required** unless on outside rotation/vacation.

**Radiation Huddle:** On Friday mornings prior to Physics rounds we hold a radiation huddle. We discuss next week's personnel schedule and discuss any relevant radiation safety or patient issues. **The anesthesiologist discusses the anesthesia protocols used, and any issues related to anesthesia that week.**

**Physics Rounds:** Weekly 1 hour rounds including the radiation oncology group (LaRue, Physicist, Custis,), and interested faculty/students in pathology, physics and other areas. Each case undergoing treatment is discussed. These rounds are more in depth and include more thorough discussion of radiation oncology physics, dose prescription, dose-volume histograms, and critiquing of treatment plans. In addition, any imaging relevant to the patient is evaluated. For ongoing cases, any changes in the field (cone downs) are discussed, and port films are evaluated. In addition the residents are often asked to present a brief topic of interest, including a summary of literature for that topic. The topics usually come from questions that arise during the rounds. These rounds are one of the most crucial aspects of residency training in our program. **Required** unless on outside rotation/vacation.

**Radiation Oncology journal club:** Attendance required, one hour weekly. Current papers of interest from pertinent journals (Cancer, Cancer Research, International Journal of Radiation Oncology Biology and Physics, Journal of the American Animal Hospital Association, Journal of the American Veterinary Medical Association, Journal of Veterinary Internal Medicine, Veterinary Radiology and Ultrasound ) are distributed the prior week, and are discussed at the club. **Required** unless on outside rotation/vacation.

**Radiation Biology:** There is a radiation biology seminar weekly during the winter and spring semester.

**Radiation Physics Journal Club:** Held weekly to review Kahn textbook. **Required** unless on outside rotation or vacation.

**Enrollment is required for 2 semesters.** Graduate students and residents are required to present research in a scientific setting where they defend their work and learn to handle questions.

**Oncology journal club:** This is available but optional. General oncology articles are reviewed. This journal club meets biweekly.

**Surgical path rounds:** These are held weekly during the semester and are encouraged.

**The Animal Cancer Center Seminar:** This recently changed to a once/semester half day workshop on a specific cancer topic. **Attendance at these seminars is required.**

**The Cell and Molecular Biology Seminar:** Three to four times each semester. Attendance is recommended if applicable.

**Hospital Morbidity and Mortality rounds:** Held monthly and **required.**

**Seminars related to the Animal Cancer Center or ERHS:** Frequent seminars that may be relevant to the residents. Some are optional and some are required.

**Other rounds** are available if the resident has a particular interest in a certain area

22. Is the resident required to give one or more formal presentations at a conference or in an educational setting on a yearly basis? If yes, please describe these conferences or educational settings.

Yes	No
x	
Comments:	Residents must research and present a topic of interest in R 770 each semester they are enrolled. Residents are required to present at ACVR during their 2 <sup>nd</sup> or 3 <sup>rd</sup> year of residency, and at other meetings, if possible. Residents present their research yearly at medical oncology journal club.

23. How many major veterinary medical or medical meetings is each resident able to or expected to attend during his/her training program? Please list the meetings attended.

None	One	Two	> Two
			x
Comments:	Residents should attend ACVR at least once. They must present research. Residents should attend either ASTRO, RRS or VCS at least once Residents should attend local radiation oncology relevant meetings, such as the Radiation Oncology CE program at the University of Colorado Health Science center, or the Photon, Proton and Carbon Meeting in Aurora Colorado when available.		

24. Does the training program require a research project? Please indicate the number of research projects required.

Yes	No	Optional	Number
x			2
Comments:			

25. Are one or more publications required as part of the training program?

Yes	No	Number
x		2
Comments:		

26. Please indicate the availability of the following facilities or equipment. Indicate if these are available at the primary training site, or at a different location. For facilities that are not on-site, please describe the situation and availability in the space at the end of this section.

Equipment / Service	Available?		On-Site?	
	Yes	No	Yes	No
Megavoltage Teletherapy Machine Please specify manufacturer and model: Varian Trilogy	x		x	
3D - Computer based treatment planning system Please specify manufacturer and model: Elipse Ver 11	x		x	
2D/2.5 D - Computer based treatment planning system Please specify manufacturer and model:		x	x	
LDR Brachytherapy treatment and planning		x		
HDR Brachytherapy treatment and planning XOFT	x		x	
Diagnostic Radiology / Imaging Services	x		x	
Conventional Radiography	x		x	
Fluoroscopy	x		x	
Ultrasound	x		x	
Nuclear Medicine	x		x	
Computed Tomography	x		x	
Magnetic Resonance Imaging	x		x	

Positron Emission Tomography	x		x	
Intensive Care Facility - 24 hours	x		x	
Clinical Pathology capabilities: (includes CBC, serum chemistries, blood gases, urinalysis, cytology, parasitology, microbiology, and endocrinology)	x		x	
Veterinary Library w/Literature Searching Capabilities	x		x	
Medical Library w/Literature Searching Capabilities	x		x	

27. If any of the above equipment or facilities are available off-site, please explain how the resident can access them for case management, research, or study.

NOTE: We have a strong affiliation with the University of Colorado Radiation Oncology Department, and other University Radiation Oncology Programs. Our residents are encouraged to do out-rotations with these programs for exposure to modalities not available at CSU.

28. Please list numbers of patients treated in the last 12 months using the listed radiation treatment modalities.

Modality	Number Treated*
Megavoltage Gamma / X-ray Teletherapy	300
LDR Brachytherapy	
HDR Brachytherapy (XOFT)	20
Injectable Radionuclide therapy	
Radioiodine	25

Other (please specify)

<sup>90</sup>Strontium Pleiotherapy

3

Other - please specify

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\* indicate N/A (not applicable) if the treatment modality is not available

29. Describe procedures for resident record recording of radiation treatment details of all patients.

The resident is responsible for accurately and completely filling out the radiation record for cases where they are the primary resident. Although some of the information is available on the radiation request sheet, the resident has an obligation to evaluate the patient's record and verify histopathology, imaging, and other requested information. The resident is responsible for the accurate measurement of tumors and/or scars. The resident must make sure all information, such as treatment plans, dose volume histograms and port films are included in the plan.

The resident of record must sign the radiation prescription of the front page of the record. They also must initial appropriate areas if they have: 1) performed dose calculations, 2) checked dosed calculations and 3) administered treatment. For computer generated treatments they must appropriately sign into the treatment plan and after plan is approved by attending radiation oncologist, will finalize and perform functions making the plan treatment ready. The resident will generate a quality assurance plan. After than plan is simulated by the therapist, the resident will evaluate for acceptance criteria, before forwarding to the physicist.

The resident is responsible for taking digital images of all set-ups and accurately representing treatment fields on the record. In addition to the picture, the resident must include all instructions pertinent to the set up so that the field can be accurately reproduced by other staff members. If the resident has administered the treatment they are also responsible for determining any acute effects the patient may be experiencing and recording on the table in the radiation record.

At physics rounds each week the record is reviewed and any deficiencies are noted so the resident can correct.



30. What procedures are in place to facilitate collection of follow up information of patients treated?

The owners are informed that they will receive regular phone calls regarding their pet's progress. The veterinary technicians who work in radiation therapy call the owners at prescribed intervals. They have a series of questions to ask the owners. If the owners have questions they will relay them to the radiation oncologists so they can address the owners concerns directly. The information obtained via phone calls is placed in the radiation oncology data base and in the VTH VETPOINT system. In addition, this information is relayed to the radiation oncology staff during the weekly physics rounds. This is important because it makes the residents aware of the long term "successes" as well as any late effects that become evident. It also may expose them to more unusual cases that have not been seen by them during their training.

Electronic copies of the information are circulated to the medical oncology staff and placed in the medical record. At the time of patient death, the information is also inserted into the radiation record.

The radiation oncology staff is notified if a patient is coming in for a recheck with the medical oncology group. The staff or residents will take photos of the regions, consult with the owners and medical oncology group, and record the information in the radiation oncology data base.

This system has been intact for approximately 15 years. We are continually trying to improve the system as new data management technology becomes available.

Radiation oncology residents evaluate all patients coming in for radiation rechecks, including those with acute effects, and take part in plan management. While on Rad onc/clinics, the radiation oncology residents are primary care giver to all radiation rechecks. See appendix regarding resident activities and responsibilities..

31. By what mechanisms and how often are residents evaluated? Please attach form used in this evaluation (required).

The residents are given feedback on a daily basis when possible regarding set-ups, treatment planning, rounds participation and other aspects of their day-to-day progress. Formal evaluations are given twice yearly at their graduate committee meetings. Feedback is requested from medical oncology, surgical oncology, and senior technicians. The evaluation meeting includes both the resident and the graduate committee. Course selection and performance are discussed. Progress in research and publications are discussed. The Program Director will also make comments regarding performance in the residency. Minutes of these meetings are placed in the residents file. Twice a year, at one of the committee meetings, a residency evaluation form is filled out, discussed with the resident and put into the file. A copy of the residency evaluation form is in the appendix.

32. Please list the residents who have completed the training program including the year that each individual's training program ended. If at all possible, please provide an address, and any information you have on the status of each individual with respect to the board certification process.

Elizabeth McNeil, Alternate Program, 2001, ACVR-RO 2002  
Diplomate ACVIM Oncology  
Assistant Professor of Comparative and Radiation Oncology  
Tufts University Cummings School of Veterinary Medicine and  
Molecular Oncology Research Institute  
Tufts Medical Center  
800 Washington Street #5609  
Boston, MA 02111  
Phone: 617-636-4715  
FAX: 617-636-6205  
elizabeth.mcniel@tufts.edu

Susan Kraft, Alternate Program, 2001, ACVR-RO 2001  
Department of Env. & Health Sciences  
Veterinary Teaching Hospital  
Colorado State University  
300 West Drake Road  
Fort Collins, CO 80523  
Phone: (970) 491-0350 Fax: (970) 491-1254  
Email: [skraft@colostate.edu](mailto:skraft@colostate.edu)

Christine Anderson, Standard 2 year Program, 2001, ACVR-RO 2001  
PVSEC  
807 Camp Horne Rd  
Pittsburgh, PA15237  
Phone:412-366-3400

Nancy Gustafson, Standard 2 year Program, 2003, ACVR-RO 2005  
PO Box 756, Minturn, CO 81645 9704457994  
Veterinary Cancer Specialists  
VRCC  
3550 S. Jason Street  
Englewood, CO 80110  
303.874.2054  
303.874-3234 Radiation Annex  
303.874.3218 Fax  
**Email:** [ngustafson@yahoo.com](mailto:ngustafson@yahoo.com)

Monique Mayer, Standard 2 year Program, 2004  
Dept. of Small Animal Clinical Sciences  
Western College of Veterinary Medicine  
52 Campus Dr.  
Saskatoon, SK S7N 5B4  
CANADA  
**Phone:** (306) 966-7088  
**Fax:** (306) 966-7174  
**Email:** [monique.mayer@usask.ca](mailto:monique.mayer@usask.ca)  
**Web:** <http://petradtherapy.usask.ca>

Philip Treuil, Standard 2 year Program, 2005 ACVR(RO) 2005

Home

3216 Rhett Butler  
Charlotte NC 28270  
214-709-5321

Work

4099 Campus Ridge Road  
Matthews NC 28104  
704-815-3939

**Email:** [ptreuil@yahoo.com](mailto:ptreuil@yahoo.com)

Julia Buchholz -Completed year 2 of standard program at CSU, 2007, ACVR-RO 2007

AOI ANIMAL ONCOLOGY AND IMAGING CENTER

Rothusstrasse 2

CH-6331 Huenenberg/ZG

Tel.: 0041 41 783 07 77

Fax: 0041 41 783 07 79

e-mail: [buchholz@aoicenter.ch](mailto:buchholz@aoicenter.ch); [julia\\_buchholz@yahoo.de](mailto:julia_buchholz@yahoo.de)

[www.aoicenter.ch](http://www.aoicenter.ch)

Travis Tuchak (Standard 3 year, 2008)

Location unknown

Not boarded

James T. Custis DVM, MS - Standard 2 year program, 2008, ACVR-RO 2011.

Colorado State University Animal Cancer Center

300 West Drake

Fort Collins, CO 80523

970-297-4568

[jcustis@colostate.edu](mailto:jcustis@colostate.edu)

Dr. Michael Nolan - Standard 2 year program, 2012 ACVR-RO 2012

Veterinary Health Complex - Radiation Oncology

1052 William Moore Road

Raleigh, NC27607

United States

Phone:919.513.6690

Fax:919.513.6669

Dr. Lynn Griffin - Standard 3 year residency, 2013 ACVR-RO 2014

Diagnostic Imaging Resident

Veterinary Teaching Hospital

Colorado State University

300 W. Drake Rd

Fort Collins, CO

Dr. Dustin Lewis Lewis-Finished 2<sup>nd</sup> year of standard program at CSU, 2013 ACVR 2013

Red Bank Veterinary Hospital

197 Hance Avenue

Tinton Falls, NJ07724

United States

Phone:732-747-3636

Fax:732-747-6562

33. Please list any additional information of interest in support of this residency re-approval application.

**Attachments:**

Please attach the following documents to the application if applicable. Please mark box to indicate which documents are included. Please list any additional documents attached in support of this application.

<b>Attached?</b>	<b>Documents</b>
x	Twenty-four (24) month calendar of resident's activities – <b>Required</b>
x	CV (2-page)- ACVR-RO Diplomate - Program Director(s) - <b>Required</b>
x	CV (2-page) - ACVR-R Diplomate(s) - <b>Required</b>
x	CV (2-page) - ACVIM-O Diplomate(s) - <b>Required</b>
x	Syllabi of formal course work included in the training program - <b>Required</b>
x	Credentials of instructors providing formal course work - <b>Required</b>
x	Forms used in resident evaluation - <b>Required</b>
NA	Letters of agreement from cooperating institutions - <b>Required</b>