



RESIDENCY TRAINING PROGRAM REGISTRATION
2018-2019
ONCOLOGY

Part One

New applications for ACVIM Residency Training Programs must be received by the Residency Training Committee 90 days prior to any residents beginning training. Before completing this form, please review the general and specific requirements for Oncology Residency Training Programs in the ACVIM Certification Manual (CM). The most current version of the CM is available on the ACVIM website at www.ACVIM.org. If there is a discrepancy between this form and the CM, the CM will be considered correct, however, please contact the ACVIM office or the Residency Training Committee Chairperson for clarification.

Prior to making significant changes in a Residency Training Program, approval of the ACVIM and Oncology Residency Training Committee must be obtained. The Candidate and/or Program Director must notify ACVIM, in writing. Significant changes could include, but are not limited to: changes in Program Director or any advisors, transferring from one program to another, alterations in program duration, locations of secondary site training, switching to a 'dual board' program, or enrolling in an institutional graduate program.

Notice: This form contains questions for three separate purposes; data collection that ACVIM must maintain for its accreditation as a specialty college; data collection for each specialty to evaluate what is appropriate for residency programs; and data collection to evaluate this Residency Training Program for renewal. It is important that all questions be answered accurately and completely, even if the answer to a specific question is not essential for a program's renewal.

For multi-site residency programs: To ensure uniformity of training and compliance with current CM requirements, training programs which include multiple sites must provide detailed information regarding supervision and facilities available at each specific site(s). Multi-site programs, if any, are listed in Part Two.

Program Director Name:

(Must be a Diplomate of ACVIM in the Specialty of Oncology)

Program Director's Contact Information:

Work Phone:

E-mail:

Mailing Address:

1. Location of Sponsoring Institution (Primary Site of Residency Training Program):

Primary Site:

Multi-site programs, if any, are listed in Part Two.

2. Resident Advisor(s): Must be ACVIM Diplomate(s) in Oncology. There is no restriction on the number of Resident Advisors; however, **each Resident Advisor can supervise only two residents concurrently.**

Steve Suter
Joanne Intile
Paul Hess

3. Please list all Supervising Diplomates in Oncology: **There must be a minimum of two (2) ACVIM Oncology Diplomates per institution.**

Paul Hess - Oncology, SAIM
Tracy Gieger - Oncology
Steven Suter - Oncology
Joanne Intile - Oncology
Michael Mastromauro - Oncology

4. Please list all Diplomates of the American College of Veterinary Internal Medicine responsible for supervision of clinical training who specialize in areas other than Oncology.

Breitschwerdt, Edward - SAIM
Teresa DeFrancesco - Cardiology
Jody Gookin - SAIM
Bernie Hansen - SAIM
Karyn Harrell - SAIM
Eleanor Hawkins - SAIM
Samuel Jones - LAIM
Bruce Keene - Cardiology
Steven Marks - SAIM
Shelly Vaden - SAIM
Karen Munana - Neurology
Natasha Olby - Neurology
Adam Birkenheuer - SAIM
Katharine Lunn - SAIM
Darcy Adin - Cardiology
Christopher Mariani - Neurolog
Babetta Breuhaus - LaIM
Peter Early - Neurology
Sandy Tou - Cardiology
Mary Sheats - LAIM
Karen Tefft - SAIM
Johanna Elfenbein - LAIM

5. Please list all the residents currently enrolled in the training program, along with the beginning date of the program, expected ending date of the program, and designated resident advisor.

Resident Name, Dates of Program (Resident Advisor)*

Brolin Evans 7.15.15 - 7.14.18 (Steven Suter)
Briana Hallman 7.15.15 - 7.14.18 (Steven Suter)
Rhiannon Doka 7.15.2016 - 7.14.2019 (Paul Hess)
Carly Stevens 7.15.17 - 7.14.2020 (Joanne Intile)

*** There is no restriction on the number of Resident Advisors; however, each Resident Advisor can supervise only two residents concurrently.**

Please note, any Candidate that significantly changes or alters their Residency Training Program before completion must notify ACVIM, in writing, before the changes are made to ensure that the proposed changes are approved.

Significant changes could include, but are not limited to:

- transferring from one program to another**
- alterations in program duration**
- switching to a 'dual board' program**
- enrolling in an institutional graduate program**
- change of Program Director or Resident Advisor**



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Part Two

Part Two of the Oncology Residency Training renewal process addresses general features of the program that apply to all current residents. These questions will be used to provide the Oncology Residency Training/Credentials Committee with information needed to judge the structure, quality, scope, and consistency of training provided.

Current Date: February 23, 2018

Program Director Name: Paul R. Hess, DVM, PhD, DACVIM (SAIM, O)

(Must be a Diplomate of ACVIM in the Specialty of Oncology)

Name of Sponsoring Institution (Residency Training Program): North Carolina State University College of Veterinary Medicine

1. For residency programs with off-site rotations (required rotations not available at the primary institution/site): To ensure uniformity of training and compliance with current Certification Manual (CM) requirements, training programs that include off-site rotations must provide detailed information regarding supervision and facilities available at each specific site(s).

Outside Rotation(s) (if applicable): Please attach signed Letters of Support from all individuals providing off-site training of oncology residents to this registration form. Each Letter of Support should specify the number of weeks scheduled at each site and the rotation requirement met. **Letters of Support must be submitted annually WITH program renewal forms and WITH each new program request.**

In the box provided below, list the outside rotations for which you are attaching Letters of Support. Please include in the space below the specific information regarding the number of weeks scheduled at each site and which rotation requirements shall be met at each site:

N/A

2. Type of Training Program:

Traditional 3 years	<input checked="" type="checkbox"/>
Non-traditional (# years)	
For non-traditional programs, please provide details. Note that programs must be at least 3 years (156 weeks) in length.	

3. Advanced Degree:

	Yes	No	Optional
Masters:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PhD:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Required for residency certificate: Yes No

Comments:

4. ONCOLOGY DIPLOMATES (CM 8.G.4)

There must be a **minimum of two (2) ACVIM Oncology Diplomates** at the primary training site of the residency for an Oncology RTP to be approved or to maintain approval. Please list the ACVIM Oncology Diplomates and their site of activity.

Name of Oncology Diplomates	Location
Tracy Gieger	NCSU-CVM
Paul Hess	NCSU-CVM
Joanne Intile	NCSU-CVM
Michael Mastromauro	NCSU-CVM
Steven Suter	NCSU-CVM

5. SUPPORTING DISCIPLINES REQUIRED

There must be an **ACVIM SAIM Diplomate** with $\geq 50\%$ FTE at the primary training site of the residency for an Oncology RTP to be approved or to maintain approval (CM 8.U.3).

Please list the ACVIM SAIM Diplomate(s) who will fulfill this requirement for the RTP.

Name of SAIM Diplomate(s)	Location
Adam Birkenheuer	NCSU-CVM
Edward Breitschwerdt	NCSU-CVM
Tracy Gieger	NCSU-CVM
Jody Gookin	NCSU-CVM
Bernie Hansen	NCSU-CVM
Karyn Harrell	NCSU-CVM
Eleanor Hawkins	NCSU-CVM
Paul Hess	NCSU-CVM
Katharine Lunn	NCSU-CVM
Karen Tefft	NCSU-CVM
Shelly Vaden	NCSU-CVM

There must be an **ACVS Surgery Diplomate** with $\geq 50\%$ FTE at the primary training site of the residency for an Oncology RTP to be approved or to maintain approval (CM 8.U.3).

Please list the ACVIM SAIM Diplomate(s) who will fulfill this requirement for the RTP.

Name of ACVS Diplomate(s)	Location
Christopher Adin	NCSU-CVM
Duncan Lascelles	NCSU-CVM
Kyle Matthews	NCSU-CVM
Simon Roe	NCSU-CVM
Valerie Scharf	NCSU-CVM

6. CLINICAL TRAINING IN OTHER SPECIALTIES: REQUIRED AFFILIATED ROTATIONS (CM 8.M)

Because oncology is a multimodal discipline, the resident must also have clinical training under the direct supervision of Supervising Diplomates in other disciplines. This contact may occur at a secondary training site.

A minimum of 32 weeks must be spent actively receiving patients in affiliated rotations or meeting requirements through rounds. For each off-site rotation included in the 32 weeks of clinical training in other specialties, the resident should obtain written approval from their Resident Advisor, who will forward documentation of this approval to the RTCC.

6a. RADIATION ONCOLOGY REQUIREMENTS (CM 8.M.1):

At least **eight weeks** of direct supervision is required with a veterinary radiation oncologist to develop an understanding of clinical management of patients receiving radiation therapy, radiation planning, dosimetry and physics related to clinical radiation therapy.

Please list all **Diplomates of the American College of Veterinary Radiology responsible for training in Radiation Oncology**. Describe how Diplomates are involved in the supervision of residents and direct contact radiation oncology training will be fulfilled. Radiation oncology rotations must be completed in blocks of at least two consecutive weeks in length.

Name of Diplomat(e)s	Site	Role in training residents
Tracy Gieger Michael Nolan Hiroto Yoshikawa	NCSU-CVM NCSU-CVM NCSU-CVM	Faculty radiation oncologists who are diplomates in radiology are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during four two-week rotations through radiation oncology, as required.

6b. PATHOLOGY REQUIREMENTS (8.M.1):

At least **two weeks** (may be met through weekly/biweekly rounds) of direct supervision with a **clinical pathologist** are required.

Please list all **Diplomates of the American College of Veterinary Pathology** in clinical pathology associated with residency training. Describe how Diplomates are involved in the supervision of residents and how direct contact requirements (must be in person, not videoconference) in clinical pathology will be met.

Name of Diplomat(e)s	Site	Role in training residents
Carol Grindem Jennifer Neel Devorah Marks Stowe	NCSU-CVM NCSU-CVM NCSU-CVM	Clinical pathology faculty diplomates are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during their two-week rotation through clinical pathology, as required.

At least **two weeks** (may be met through weekly/biweekly rounds) of direct supervision with an **anatomic (surgical) pathologist** are required.

Please list all **Diplomates of the American College of Veterinary Pathology** in anatomic (surgical) pathology associated with residency training. Describe how Diplomates are involved in the supervision of residents and how direct contact requirements (must be in person, not videoconference) in anatomic pathology will be met.

Name of Diplomat(e)s	Site	Role in training residents
Luke Borst John Cullen Mac Law Keith Linder Jennifer Luff Heather Shive Debra Tokarz	NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM	Anatomic pathology faculty diplomates are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during their two-week rotation through anatomic / surgical pathology, as required.

6c. DIAGNOSTIC IMAGING REQUIREMENTS (8.M.1):

At least **two consecutive weeks** of **diagnostic imaging** under direct supervision by a board-certified radiologist are required in addition to any interactions during case rounds.

Please list all Diplomates of the American College of Veterinary Radiology (*not including radiation oncology*) associated with residency training. Describe how Diplomates are involved in the supervision of residents and how direct contact requirements (must be in person, not videoconference) in radiology will be met.

Name of Diplomate(s)	Site	Role in training residents
Eli Cohen Ian Robertson Gabriela Seiler Don Thrall	NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM	Faculty diplomates in radiology are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during a two-week rotation through radiology / diagnostic imaging, as required.

6d. SMALL ANIMAL INTERNAL MEDICINE REQUIREMENTS (8.M.1):

At least **four weeks** (completed in at least two consecutive week blocks) of training under the direct supervision by an ACVIM Small Animal Internal Medicine (SAIM) Diplomate are required.

Please list all **Diplomates of the American College of Veterinary Internal Medicine (including those listed above)** involved in the supervision of residents and how direct contact requirements will be met.

Name of Diplomate(s)	Site	Role in training residents
Adam Birkenheuer Edward Breitschwerdt Jody Gookin Bernie Hansen Karyn Harrell Eleanor Hawkins Katharine Lunn Karen Tefft Shelly Vaden	NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM	Faculty diplomates in small animal internal medicine are available daily for face-to-face case consultations. These diplomates also directly supervise the Oncology residents during four two-week rotations through Small Animal Internal Medicine, exceeding the required number of rotations.

6e. OTHER REQUIRED ROTATIONS (8.M.2):

Fourteen weeks of other rotations with an ACVIM Diplomate in the Specialty of Oncology, or training under the supervision of a member of an American Board of Veterinary Specialties (ABVS) or European Board of Veterinary Specialization (EBVS) approved specialty (such as, but not limited to, the American College of Veterinary Radiology, the American College of Veterinary Radiology (Radiation Oncology), European College of Veterinary Neurology, the American College of Veterinary Pathology, ACVS, or ACVECC). Rotations must be completed in at least two consecutive week blocks (unless otherwise specified in the CM.)

Please list the **non-ACVIM Diplomates** available for consultation in these areas. Describe how Diplomates are involved in the supervision of residents and their contribution to direct contact requirements in affiliated specialties.

Name of Diplomates	Specialty/College	Site	Role in training residents
Christopher Adin Kate Bailey Scott Bailey Petra Bizikova Nigel Campbell Michael Davidson Teresa DeFrancesco Brian Gilger Bernie Hansen Maria Kilos Duncan Lascelles Denis Marcellin-Little Sara Lyle Kyle Mathews Kristen Messenger Freya Mowat	Surgery/ACVS Anesthesiology/ACVAA Theriogenology/ACT Dermatology/ACVD Anesthesiology/ACVAA Ophthalmology/ACVO ER Crit Care/ACVECC Ophthalmology/ACVO ER Crit Care/ACVECC Anesthesiology/ACVAA Surgery/ACVS Surgery/ACVS Theriogenology/ACT Surgery/ACVS Anesthesiology/ACVAA Ophthalmology/ACVO	NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM NCSU-CVM	All of these faculty non-ACVIM diplomates are available for daily consultation regarding clinical cases, for focused rotations in their specialties, and for other discussions (including joint rounds with the Medical Oncology Service)

Marcy Murphy	Dermatology/ACVD	NCSU-CVM	
Sarah Musulin	ER Crit Care/ACVECC	NCSU-CVM	
Thierry Olivry	Dermatology/ACVD	NCSU-CVM	
Mark Papich	Clin Pharm/ACVCP	NCSU-CVM	
Lysa Posner	Anesthesiology/ACVAA	NCSU-CVM	
Marije Risselada	Surgery/ACVS	NCSU-CVM	
Simon Roe	Surgery/ACVS	NCSU-CVM	
Korinn Saker	Nutrition/ACVN	NCSU-CVM	
Valerie Scharf	Surgery/ACVS	NCSU-CVM	
Hans Westermeyer	Ophthalmology/ACVO	NCSU-CVM	

7. FORMAL STRUCTURED RESEARCH (CM 8.O):

The resident is expected to actively participate in a laboratory or clinical investigative research project during the residency. A minimum of **eight weeks** (320 hours) of an oncology residency should be dedicated to this aspect of training. Research time should be scheduled as either weekly time (hours per week) or in blocks of time sufficient to complete the research, perform data analysis and prepare a manuscript for publication by the third year of their residency (see Recommended Milestones in CM 8.G 6-8). This experience must be documented, with dates, and signed by the Supervising Diplomate.

Please explain how your residency program complies with the research guidelines outlined above.

Each Oncology resident is assigned an individual mentor, as well as a committee of three members (mentor and two other board-certified specialists), who oversee the trainee's formal research experience. It is expected that each resident will be involved in at least one (intra- or extra-mural) grant proposal submission, as well as development and completion of one research project during their program, leading to presentation of an abstract at a extramural conference, as well as the required publication. Two of the four Supervising faculty are PhD scientists with active labs/research programs, in which resident mentees are provided projects on which to work, and the resources (funding and equipment access) to complete these efforts. Additionally, there are a number of other cancer researchers on the NCSU-CVM campus that can provide laboratory space and projects for interested residents. Residents have 6, 10 and 16 weeks professional development time in years 1, 2 and 3 of their training program, respectively. Of that total (32 weeks), ~16-18 are allotted for Board preparation and vacation, while the remaining 14-16 weeks are expected to be spent engaged in research, meeting the requirement. This research time will be documented and signed by the Supervising Diplomate, as required. Oncology residents at NCSU are additionally encouraged to participate in ongoing clinical trials to further their research experience.

For Board-certification in oncology, the resident must have a minimum of one major first author publication in the field of oncology published or accepted for publication in a refereed scientific or peer-reviewed journal. A literature review or case report is not acceptable. Please describe how this program supports this requirement for publication. (See CM 8.F.5)

As described above, all residents at NCSU have been required to pursue a research project, with the intent of that effort to support a grant application, generate an abstract for external presentation, and culminate in an accepted oncologic manuscript in a peer-reviewed journal. Additionally, residents are encouraged to work on clinical studies (prospective or retrospective) that can result in publication. Residents are provided time (in blocks uninterrupted by clinic duties), financial resources, laboratory and office space, access to library resources and medical records, access to the expertise of clinicians, scientists, and statisticians, writing assistance, and project mentoring, in order to succeed in this requirement.

8. JOURNAL CLUB (CM 8.P):

An organized and routinely scheduled journal club of at least 80 hours over the course of the RTP must be an integral part of all oncology resident training. Journal Club must be attended and supervised by a Supervising Diplomate. The RTP application requires a schedule of proposed Journal Club for Oncology RTCC approval.

Please explain how your residency program complies with the journal club guidelines outlined above, and include a schedule for this requirement, including number of proposed meetings and duration of each meeting.

At NCSU, the Medical Oncology Program has a formal Journal Club generally attended and supervised by all four faculty Diplomates. This program meets weekly on Mondays from 3:30-4:15, ~40 sessions per year, and involves review of a primary article (made available 5 days prior) and supporting literature, presented in PowerPoint format

by either resident, specialty intern or faculty, followed by discussion of the paper, and a 1-question quiz of material from the paper for the audience. Our schedule for 2018-19 will be every Monday, year-round, from 3:30-4:15, except for Labor Day (Sept. 3rd); Winter Holidays (Dec. 23rd and Jan. 31st); Martin Luther King Day (Jan. 21st); Memorial Day (May 27th); and ACVIM Forum pre- and post-Mondays (June 3rd, 10th), for a planned total of 45 sessions lasting 45 minutes each (total time: ~34 hours).

9. SEMINAR OR LECTURE SERIES AND FORMAL CONFERENCES (CM 8.Q, 8.R):

Residents must attend formal teaching conferences in oncology and related disciplines throughout the residency. Unless these are formal lectures or classes, an Oncology Supervising Diplomate supervises the conferences, which should occur an average of **four times per month**. Examples of these are clinical pathology conferences, resident seminars, grand rounds sessions, and tumor biology classes. Conferences given within a veterinary practice or hospital or at a medical school or medical teaching hospital are acceptable.

Please include the format and schedule of these conferences and presentations, which directly pertain to training in Oncology and give specific details given on a daily, weekly or monthly basis.

- Oncology Service Rounds – once daily, 1-hour rounds discussing current cases, and case-oriented learning points, supervised by the attending faculty Diplomates
- Medical Oncology Journal Club – once weekly, 45-min session with rotating presenters; Powerpoint-based format, as described above; supervised by all faculty Diplomates (Mondays; 3:30-4:15 pm). Medical Oncology residents present 4-5 sessions per year.
- Radiation Oncology Journal Club - once weekly, 45-min session with rotating presenters (only when Medical Oncology residents are rotating through the Radiation Oncology Service) (Wednesdays; 8:15-9:00 am)
- Surgery/Med Onc/Rad Onc Rounds - once weekly, 1-hour rounds discussing selected cases that require multimodality cancer therapies, presented by residents in each specialty, and supervised by Medical Oncology, Radiation Oncology and Surgery Diplomates (Tuesdays; 8:00-9:00 am)
- Cytology Rounds – once monthly, 1-hour rounds, led by faculty clinical pathologist & medical oncologist (Mondays, 8:00 – 9:00 am). Cases are presented by Medical Oncology Residents.
- Emergency & Critical Care / Cardiology / Neurology Rounds – once weekly, 1-hr topic- or case-based rounds, including cancer cases, for Boards prep; led by Board-certified faculty in these specialty areas (Fridays, 8:00 – 9:00 am)
- Pathophysiology Board Prep/Internal Medicine House Officer Rounds – once weekly, 1-hr, in-depth case-based discussion of pathophysiology in small animals, including cancer cases and biology; directed by multiple Small Animal Internal Medicine faculty. All Medical Oncology residents lead a session once yearly for the first two years of their program (Wednesdays, 8:00 – 9:00 am)
- House Officer Seminar – once weekly, 1-hr presentations by house officers (all residents present one formal seminar to the CVM annually during the second and third years of their program) - includes periodic in-depth presentations on cancer-related topics (Thursdays, 8:00 – 9:00 am)
- Oncology Works-In-Progress (to be introduced, beginning July 2018) – once quarterly, 1-hr formal presentation by resident, once annually each year of the training program, on the status of their oncology research project: conception, experimental design, progress and plans

The resident must give a formal presentation at such a conference at least once per year. Documentation of these presentations must be included in the oncology credentials packet of the resident.

Please list all opportunities offered to and/or required of the resident for attendance and/or giving formal presentations at local, regional, state or national meetings. Indicate whether the resident will attend or present at these meetings (CM 8.Q).

Formal presentations by Medical Oncology Residents:

Local (NCSU-CVM)(mandatory attendance & participation, except where noted):

Medical Oncology Journal Club: 4 presentations per year; all years of program

Pathophysiology/Internal Medicine: 1 presentation per year; years 1 & 2

House Officer Seminar: 1 presentation per year; years 2 & 3

Oncology Works-In-Progress (upcoming venue): 1 presentation per year; all years of program

CVM Annual Research Forum (1 abstract session): 1 presentation (attendance & participation encouraged)

Regional/state: Attend (and present, if invited) the annual North Carolina Veterinary Conference (Raleigh, NC). Attend (mandatory) and present (encouraged) at the annual Consortium for Canine Comparative Oncology meeting (C3O, Durham, NC).

National/International: Attend the ACVIM Annual Forum, 2nd & 3rd years of program. Attend the Veterinary

Cancer Society (VCS) Annual meeting, 2nd & 3rd years of program. It is an expectation of the program to present an abstract at one or both of these two meeting venues (or equivalent scientific conference) at least once during the training period. Funding is provided for the residents to defray the costs of attending these meetings.

Residents must attend at least one state, regional, national, or international veterinary or human medical continuing education conference during their residency. Please list opportunities offered to and/or required of the resident for attendance

Regional and state:

North Carolina Veterinary Conference (annual meeting, Raleigh, NC). Attendance permitted all years; costs are subsidized by the CVM.

Consortium for Canine Comparative Oncology (C3O annual meeting, Durham, NC). Attendance mandatory all years (clinic is closed); no cost.

National/International:

ACVIM Annual Forum (location varies). Attendance mandated years 2 and 3; costs are partly subsidized by the Service and Hospital funds.

Veterinary Cancer Society Annual meeting (location varies). Attendance mandated years 2 and 3; costs are partly subsidized by the Service and Hospital funds.

Attendance at other scientific and medical conferences are encouraged, depending on individual interest.

10. FORMAL EXAMINATION REVIEW SESSIONS (CM 8.S):

An oncology RTP must provide at least 40 hours per year of intensive formal review sessions for residents/candidates on topics covered in the general and specialty examinations. Attending daily clinical rounds does not meet this requirement. The requirement could be met in part by attending an ACVIM advanced continuing education (ACE) course, by attending an ACVIM Forum, or formal resident review sessions at a Veterinary Cancer Society Annual Meeting.

Please provide an anticipated schedule of these formal reviews below. Annual documentation will be required.

Schedule for formal examination review sessions:

Internal:

Emergency & Critical Care / Cardiology / Neurology Rounds/Boards Preparation – (40 hrs per year, years 1 and 2 of RTP) ~40 sessions per year, 1 hr once weekly, topic- or case-based rounds, including cancer cases, led by faculty Diplomates in these specialty areas.

Pathophysiology Boards Preparation (organized by Dr. Katharine Lunn)(26 hrs per year, years 1 and 2 of RTP) – ~35 sessions per year, 45 min once weekly, presented by faculty Diplomates in various specialties, including oncology.

Advanced Topics in Oncology (upcoming in 2018; 6 hrs per year, all years of RTP) – 6-8 sessions per year, 1 hr, presented by Oncology Faculty Diplomates and invited PhD oncology researchers

External:

ACVIM Annual Forum (20 hrs per year, years 2 and 3 of RTP)

ACVIM Advanced Continuing Education Courses (hrs per year depends on availability) – attendance supported (time; funds) when relevant course in Oncology is offered

Veterinary Cancer Society (VCS) SOTA presentations (2 hrs per year, years 2 and 3 of RTP)

VCS Resident Review Workshop (3.5 hrs per year, years 2 and 3 of RTP)

Multi-institutional Tumor Boards (NCSU, CSU, Texas A&M, Univ. of Illinois, Univ. of Guelph)(3 hrs per year, all years of RTP) – Web-based program, 1 hr per session x 3-4 sessions per year

Consortium for Canine Comparative Oncology annual meeting (C3O, Durham, NC)(8 hrs per year, all years of RTP)

Summary:

Venue	Year 1	Year 2	Year 3
Critical Care Board prep	40	40	
Pathophys Board	26	26	

prep			
Adv Top Onc	6	6	6
ACVIM Forum		20	20
VCS Res Rev		3.5	3.5
VCS SOTA		2	2
Multi-institutional Board prep	3	3	3
C3O Forum	8	8	8
TOTAL	83	108.5	42.5

11. PAST RESIDENTS:

Please list the residents who have completed this described training program **within the last five years**, including the year that each individual's training program ended. If possible, please indicate whether the individual has completed the Board- certification process. Do not include residents whose program was other than the one described here.

Name(s)	Program End Date (mm/dd/yyyy)	Diplomate (Yes or No)
Colleen Martin	07/14/2017	No
Michael Mastromauro	07/14/2016	Yes
Ashley Brandes	07/14/2015	Yes
Margaret Musser	07/14/2014	Yes
Jennifer Willcox	07/14/2014	Yes

12. CURRENT RESIDENTS:

Please list all residents **currently enrolled in this described training program** in addition to their actual program start and end dates. Each Resident Advisor can supervise only two residents at a time.

Resident Name(s) (first/last)	Length of Program (in years)	Program Start Date (mm/dd/yyyy)	Program End Date (mm/dd/yyyy)	Resident Advisor Name (first/last)	For RAs: Checking this box is an indication I have read the ACVIM Certification Manual and understand my role in residency training (mandatory per CM 4.F.3.c)
Carly Stevens	3	07/15/2017	07/14/2020	Joanne Intile	X
Rhiannon Doka	3	07/15/2016	07/14/2019	Paul Hess	X
Brolin Evans	3	07/15/2015	07/14/2018	Steven Suter	X
Briana Hallman	3	07/15/2015	07/14/2018	Steven Suter	X

While it may have no bearing on your program, the supervising Diplomat(s) and the resident are required to review the Certification Manual yearly. You may obtain a copy of the Certification Manual from the ACVIM website at www.ACVIM.org.

13. Have all supervising Diplomat(s) read the objectives for an oncology residency as outlined in the Certification Manual, Specialty of Oncology?

Yes No

If no, please explain:

14. The RA and PD should periodically evaluate the resident (required minimum of once every 6 months) and discuss the results of those evaluations with the resident. Either the RA or PD (or both) must be able to provide the Residency Training Committee with written summaries of those evaluations, if requested. Additionally, the RA must complete the standardized Resident Evaluation Form annually and provide RTCC with copies, if requested.

Does your program comply with these standards of resident evaluation?

Yes No

If no, please explain:

15. 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. (In the Location column, indicate on-site for primary location or the name of the facility where the equipment is located if off-site.) For facilities that are not on-site or not available, please describe the situation, availability, or how the resident will gain experience with equipment not available in the space at the end of this section.

	Available? (Y or N)	Location of equipment? (On-site or list site name)
a) Radiography	Y	On-site
b) 24 hour emergency and critical care facility	Y	On-site
b) Ultrasonographic equipment	Y	On-site
c) Color flow/Doppler equipment	Y	On-site
d) Endoscopy equipment	Y	On-site
GI equipment	Y	On-site
Bronchoscopy	Y	On-site
Cystoscopy	Y	On-site
Rhinoscopy	Y	On-site
Laparoscopy	Y	On-site
e) Clinical Pathology capabilities: (includes CBC, serum chemistries, blood gases, urinalysis, Cytology, parasitology, microbiology, and endocrinology)	Y	On-site
f) Appropriate safety equipment for handling chemotherapy (briefly summarize what is available in the column Location of Equipment).	Y	On-site. Chemotherapy is prepared in a Sterilchem GARD III biosafety cabinet in closed ventilation partition, and administered using a MILA closed drug transfer system by personnel wearing personal protective equipment in a dedicated administration room (fully compliant w/ upcoming USP 800 Hazardous Drugs – Handling in Healthcare Settings standards).
g) Nuclear Medicine	Y	On-site
h) Computed Tomography	Y	On-site
i) Magnetic Resonance Imaging	Y	On-site
j) Radiation Therapy Facility	Y	On-site
k) Intensive Care Facility – 24 hours	Y	On-site
l) Total parenteral nutrition capability	Y	On-site
m) Computerized Medical Records w/Searching Capabilities	Y	On-site

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.

N/A

16. The resident should have access to a human or veterinary medical library with on-line searching capacity and at a minimum have access to all textbooks (current editions) and full text access to all journals on the current examination committee reading list (**See item 21. to be completed by Program Director. Note that on-line access to texts must be full-text not abstracts only**). This library should be available on-site or within a reasonable commuting distance (defined as within a 15 mile radius of the primary training site).

Please indicate how your resident can obtain access to the following textbooks/journals.

Text or Journal	Hard Copy or Subscription Available on site, or Medical/Veterinary Library <i>(insert name)</i>	Available Electronically (CD-ROM or Online Subscription)	Available Through pub-med only (free or will purchase articles)	Not Available
DeVita: <u>Cancer: Principles and Practice of Oncology</u> , 10 th ed. (2015)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Withrow: <u>Veterinary Clinical Oncology</u> , 5 th Ed. (2012)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chabner: <u>Cancer Chemotherapy</u> , 5 th Ed. (2010)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tannock&Hill: <u>Basic Science of Oncology</u> , 5 th Ed. (2013)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abbas: <u>Cellular and Molecular Immunology</u> , 8 th Ed. (2014)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meuten: <u>Tumors in Domestic Animals</u> , 4 th Ed. (2002)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weinberg: <u>The Biology of Cancer</u> , 2 nd Ed. (2013)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kirk: <u>Current Veterinary Therapy</u> XII, XIII, XIV, XV (1995, 2000, 2008, 2014)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Feldman & Nelson: <u>Canine and Feline Endocrinology and Reproduction</u> , 4 th Ed. (2015)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cowell: <u>Diagnostic Cytology</u> , 4 th Ed. (2013)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hall: <u>Radiobiology for the Radiologist</u> , 7 th Ed. (2011)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ogilvie & Moore: <u>Feline Oncology</u> (2001)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ogilvie & Moore: <u>Managing the Canine Cancer Patient</u> (2006)	<input checked="" type="checkbox"/> or Library:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Henry & Higginbotham: <u>Cancer Management in Small Animal Practice</u> (2009)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Veterinary Clinics of North America- oncology-related issues</u> (2000-present)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Duncan: <u>Veterinary Laboratory Medicine: Clinical Pathology</u> , 5 th Ed. (2011)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weiss and Wardrop: <u>Schalm's Veterinary Hematology</u> , 6 th Ed. (2010)	<input type="checkbox"/> or Library: Vet Med	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Norman and Streiner: <u>Biostatistics- the</u>				

Bare Essentials, 4 th Ed. (2014)	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The following Journals are considered required for Candidates; They are available to ACVIM Diplomates through the Texas A&M University Library: http://guides.library.tamu.edu/acvim				
<i>Journal of Veterinary Internal Medicine</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of the American Veterinary Medical Association</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>American Journal of Veterinary Research</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Compendium for Continuing Education</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of the American Animal Hospital Association</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Clinical Pathology</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary and Comparative Oncology</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Pathology</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Surgery</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Radiology and Ultrasound</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Journal of Small Animal Practice</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Research in Veterinary Science</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Veterinary Immunology and Immunopathology</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer</i>	<input type="checkbox"/> or Library: Hunt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>New England Journal of Medicine</i>	<input type="checkbox"/> or Library: Vet Med	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Clinical Cancer Research</i>	<input type="checkbox"/> or Library: Hunt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Nature Reviews: Cancer</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer Research</i>	<input type="checkbox"/> or Library: Hunt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Cancer Chemotherapy & Pharmacology</i>	<input type="checkbox"/> or Library:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

17. Is there any additional pertinent information that the Residency Training Committee should consider in its evaluation of this training program?

Yes No

<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Comments:

Please note, any Program Director or Candidate that significantly changes or alters this Residency Training Program before completion must notify ACVIM, in writing, before the changes are made to ensure that the proposed changes are approved.

Significant changes could include, but are not limited to:

- transferring from one program to another
- alterations in program duration
- switching to a 'dual board' program
- enrolling in an institutional graduate program
- change of Program Director or Resident Advisor

As Program Director, I verify that the above information is an accurate reflection of this Residency Training Program.

Per the Certification Manual, each year, the Program Director must certify to the RTC/ RTCC and ACVIM, in writing, that they have read the ACVIM Certification Manual and understands their role in residency training.

Checking this box is an indication I have read the ACVIM Certification Manual and understand my role in Residency Training Program.