

# ACVP VSR Form

Name of Institution: **University of Pennsylvania**

Address: **Laboratory of Pathology and Toxicology, 3900 Delancey Street, Philadelphia, PA 19104**

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Prerequisites Beyond DVM: **None**

| Program Information:  |        |        |                 |
|---|--------|--------|-----------------|
| Program   | CP     | AP     | Combined MS/PHD |
| Program options   | Yes    | Yes    | No              |
| Full time residents   | 2      | 6      |                 |
| Typical # of years for completion                               | 3      | 3      |                 |
| Money to go to 1 meeting/year                                   | Yes *  | Yes *  |                 |
| Money for books and supplies                                    | Yes *  | Yes *  |                 |
| Independent research/publication required for program complete? | Yes ** | Yes ** |                 |

Comments: \*Yearly stipend provided to residents for meetings, courses, books, journal subscriptions, externships etc. with approval by the residency directors.  
\*\* Research/publications are encouraged and project submission for presentation is required in order to attend the ACVP annual meeting. A publication is required for program completion in anatomic and clinical pathology.

| <b>Case Load:</b>   |  |                                       |  |                     |
|---------------------|--|---------------------------------------|--|---------------------|
|                     | <b>Small Animal:</b>                       | <b>Large Animal:</b>                  | <b>Exotic/Zoo Animal:</b>                | <b>Lab Animal:</b>  |
| Anatomic Pathology: | VHUP: 400 necropsies/13,000 biopsies/ year | NBC: 900 necropsies/500 biopsies/year | 5% of VHUP caseload; 10% of NBC caseload | 5% of VHUP caseload |
| Clinical Pathology: | VHUP: 3500-4000 cytologies                 | NBC: 500-700 cytologies               | 50-100 cytologies                        | 50-100 cytologies   |

Comments: The clinical laboratory processes over 30,000 specimens/year, including almost 5,000 cytologies and bone marrows. Samples are primarily from small companion animals, but also from horses, cattle, and occasional non-mammalian species. In addition to hospital cases, the surgical pathology service receives samples from numerous general practices and referral hospitals in the area. The group also runs a busy speciality service for dermatopathology, ophthalmopathology and neuropathology.

| <b>Required Coursework for Specific Programs:</b> |            |   |           |
|---|------------|---|-----------|
| <b>MS</b>   | <b>PhD</b> | <b>AP</b>   | <b>CP</b> |
|   |            | Residents audit general pathology and clinical laboratory medicine classes. | None      |

Comments: Residents also have the opportunity to take a week-long intensive course and wet lab in genomics research techniques.

| <b>Other Opportunities:</b>  |
|--|
| <p>*Residents participate in a rigorous rounds schedule including: AFIP, biopsy, dermatopathology, neuropathology, ophthalmic pathology, clinical pathology, lab animal pathology and small &amp; large animal systems rounds.</p> <p>*Post-residency PhD opportunities are available within the graduate group in Cell and Molecular Biology and Pathobiology.</p> <p>*We have affiliations with the University of Pennsylvania Medical School and Hospital, Children's Hospital of Pennsylvania, Abramson Cancer Center, and Wistar Institute. Active research programs within the veterinary school include infectious disease (parasitic diseases and immunoparasitology) and cancer biology/immunology.</p> <p>*Residents are allotted time to complete externships of their choice, which can include an 8 week externship at Novartis.</p> <p>*For more information about the research within the department of Pathobiology, please visit: <a href="http://www.vet.upenn.edu/FacultyandDepartments/Pathobiology/tabid/361/Default.aspx">http://www.vet.upenn.edu/FacultyandDepartments/Pathobiology/tabid/361/Default.aspx</a></p> |

| Percentage of Time Spent in Activities: - Clinical Pathology |         |          |                 |          |       |
|--|---------|----------|-----------------|----------|-------|
|  | Service | Teaching | Seminar/Courses | Research | Other |
| Year 1   | 70%     | 20%      | 5%              | 5%       |       |
| Year 2   | 60%     | 25%      | 5%              | 10%      |       |
| Year 3   | 50-60%  | 25-30%   | 5%              | 10%      |       |
| Year 4   |         |          |                 |          |       |

Comments: The resident is required to spend one week a year on necropsy duty as well as two weeks a year on biopsy service. Cytology and hematology instructional rounds with 4th year students and periodic topic presentation in board-preparatory clinical pathology rounds will be expected on a rotational basis. Residents are also expected to participate in the clinical and didactic instruction of interns and veterinary students.

| Percentage of Time Spent in Activities: - Anatomic Pathology |         |          |                 |          |       |
|--|---------|----------|-----------------|----------|-------|
|  | Service | Teaching | Seminar/Courses | Research | Other |
| Year 1   | 50      | 5        | 20              | 5        | 20    |
| Year 2   | 60      | 10       | 15              | 5-10     | 5-10  |
| Year 3   | 60      | 10       | 15              | 5-10     | 5-10  |
| Year 4   |         |          |                 |          |       |

Comments: Residents' service time is spent on necropsy, biopsy and dermatopathology. They also spend time on the cytology service. Residents are integral in teaching 4th year veterinary students and also participate in the 2nd year pathology course. Residents are expected to attend seminars in the pathobiology department and hospital grand rounds.