Please complete this application and **remove or replace ALL INSTRUCTIONS/CLARIFICATIONS TYPED IN BLUE INK.** All length restrictions must be followed. This is a template and the applicant may make modifications to sufficiently communicate the research proposal. Deviations to allow for institutional requirements (i.e. additional signatures) will not result in any deductions.

# Project Title (this must be different from ongoing or pending research)

Submitted to the

ACVO Vision for Animals Foundation (VAF)

Founders Clinical Research Grant

Submitted by: (this cover/signature page **must be signed** by all listed investigators)

Name, Degrees Sign and Date Here
Principal Investigator

Name, Degrees Sign and Date Here
Co-Investigator

Name, Degrees Sign and Date Here
Co-Investigator

Name, Degrees Sign and Date Here
Co-Investigator

Contact Information:
The University of XYZ, College of Veterinary Medicine
111 we work here street
City, State Zip Code
Telephone: 123-456-7890 Fax: 123-456-7890
Email: JSmith@gmail.com

**Checklist:**

The checklist is designed to assist applicants in the grant writing process. All items in the checklist are required to be completed prior to grant submission. Please include this completed checklist in your ACVO-VAF grant application. The grant application **must** include the following:

- ☐ Completed and signed cover page (page 1)
- ☐ Completed abstract and project duration (page 3)
- ☐ Complete description of the resources available for the proposed research (page 4)
- ☐ Complete research plan (beginning page 5; sections a through e)
- ☐ Complete literature cited (section f)
- ☐ Completed budget that does not exceed $5000 in total costs
- ☐ Complete description of investigators and key personnel
- ☐ Check if letters of cooperation are included
- ☐ Curriculum Vitae (use the 2-page NIH format)
- ☐ Check if appendices are included
- ☐ Check if an Informed Consent form is included
- ☐ All page restrictions are met
- ☐ PDF is one document and size restriction (no larger than 5MB) is met
- ☐ Submitted an electronic PDF to: BermudaPetEyeDoc@verizon.net

**Scientific Abstract:**

Place your abstract in this space. The abstract should be a concise summary of the proposal and include the following sections: PURPOSE (including hypothesis and specific aims), MATERIALS AND METHODS, EXPECTED OUTCOME, and SIGNIFICANCE. The abstract body cannot exceed 300 words.

**Project Duration:**

XXX months

Please specify how many months the project will take to complete and list the proposed time period during which the research is to be conducted. Please note all ACVO-VAF clinical research projects must be completed primarily by the investigator within 24 months of being awarded the grant.

**Resources:** Not to exceed 2 pages

**Facilities:**

Clinical:
Please describe the facilities to be used to conduct the proposed research. Indicate the performance sites and describe the capacities, pertinent capabilities, and extent of availability to the project.

Animals:
Please describe where the animals will come from, if applicable.

Other:
Identify any support services and specify the extent to which they will be available to the project.

**Major Equipment:**
Describe all major equipment that will be used to conduct the proposed research. Indicate the extent to which they will be available to the project. Equipment commonly used within a veterinary ophthalmology referral practice, such as but not limited to: a slitlamp, tonometer, binocular indirect ophthalmoscope and lenses, ultrasound machine, electroretinogram machine, operating microscope, phacoemulsification machine, anesthesia machine and monitoring equipment, cannot be supported by the grant, unless the investigator provides reason that existing equipment in the practice cannot be utilized for this project.

**Research Plan:** Sections A - E are limited to 8 pages. All text, tables, graphs, figures, diagrams, and charts **must** be included within the 8 page limitation; literature cited is not included in this page limit.

**A. Hypothesis and Specific Aims:**

Recommended length is 0.5 – 1 page.

In this space, the applicant should briefly describe the problem that needs to be addressed, state the hypothesis, and list the objectives or specific aims to address this hypothesis.

**B. Background and Significance:**

Recommended length is 2 pages.

Briefly review and reference the relevant literature including significant points and/or the current status of the current project idea. Describe how the proposal will contribute to the general knowledge of the area of study including novel concepts and potential applications. Describe how the results obtained from this study are relevant to our current understanding of the disease problem. Additionally, describe how results that are obtained from this study may further potential research programs and future funding, if applicable.

**C. Preliminary Data:**

Recommended length is 1 page.

If available, present preliminary data, including figures and tables, or work in progress that supports the hypothesis and/or the suggested methodology.

**D. Experimental Plan:**

Follow this outline for each specific aim. Recommended length is 3 – 3.5 pages.

**Specific Aim #1:** Place the title of the specific aim or objective here.

***Rationale:*** Briefly summarize why the experiment will be performed.

***Experimental Design:*** Provide details of the methods and procedures used in the experiments. It is important to provide adequate power analyses to justify and support the proposed sample size. Be comprehensive enough that the reviewers can assess technological aspects of the proposal separately from the experimental plan.

***Data Analysis:*** Clearly indicate the experimental outcomes and describe the plan for using data to answer the specific aim. Statistical consultation is encouraged and may be beneficial.

***Expected Results:*** Describe the experimental results that are expected and how this will impact the area of study.

***Limitations, Potential Pitfalls, and Alternative Approaches:*** Indicate any potential limitations of either the experimental procedures used or of the specific aim. Describe any alternate experimental outcomes and how the project personnel will deal with this.

**E. Time Line for the Experimental Plan:**

Recommended length is 0.5 pages.

Clearly indicate how long each of the specific aims will take to complete.

## F. Literature Cited:

This section is NOT included in the 8 page limit of the RESEARCH PLAN. The references should be formatted in the same manner as manuscripts submitted to the journal "Veterinary Ophthalmology". References should be numbered sequentially as they occur in the text and identified in the main text by superscript Arabic numbers after the punctuation. The reference list should be listed numerically in the Literature Cited section of the grant application. The following are examples of style. All authors should be listed and journal titles and page ranges should not be abbreviated.

1. Bagley LH, Lavach JD. Comparison of postoperative phacoemulsification results in dogs with and without diabetes mellitus: 153 cases (1991-1992). *Journal of the American Veterinary Medical Association* 1994; 205: 1165-1169.

2. Barnett KC. *Color Atlas of Veterinary Ophthalmology.* Williams and Wilkins, Baltimore, 1990.

3. Davidson MG. Equine ophthalmology. In: *Veterinary Ophthalmology* 2nd edition (ed. Gelatt KN). Lea and Febiger: Philadelphia, 1991; 576-610

4. Maggs DJ, Nasisse MP. Effects of oral L-lysine supplementation on the ocular shedding rate of feline herpesvirus (FHV-1) in cats (abstract). *28th Annual Meeting of the American College of Veterinary Ophthalmologists* 1997; 101: 67-78.

**Estimated Budget:** Not to exceed 2 pages

Please refer to the budget section of the grant instructions form for details on what types of budget items are not supported by the ACVO-VAF. Categories listed below are intended to be examples. Additional categories may be used to sufficiently communicate the project expenses.

**Owner Compensation:** Please note that the list provided here is an example only. It does not need to be included for all applications nor does it represent an exhaustible list of client-owned animal fees or accurate dollar amounts.

Compensation for client participation ($100/visit).....$1180

If no client-owned animals are being used in this proposal, replace this information with "Not Applicable"

**Equipment:** Only small equipment purchases are allowed by the ACVO-VAF. Any equipment purchases listed here must be justified.

Mini-refrigerator to store samples after collection .....$70

If no there are no small equipment purchases, replace this information with "Not Applicable"

**Expendable Supplies:** Please note that the list provided here is an example only. It does not represent an exhaustible list of supplies or accurate dollar amounts. This section of the grant should be modified by each applicant to fit the needs of his/her proposal.

*Cell culture supplies and reagents:*

Tissue culture dishes.....$300

Buffers and Media .....$250

*Immunohistochemistry for IL-1:*

Primary and secondary antibodies .....$250

Chromagen.....$250

*Medications:*

Xylazine .....$50

Ketamine .....$75

*Surgical Supplies:*

Gloves.....$150

Drapes .....$125

**Other:**

*Histology:*

H&E and unstained slides .....$300

*Laboratory Tests:*

Serum Chemistry and CBC .....$300

*Test Medication and Placebo*……..$700

*Travel to collect samples*……..$500

*Statistician Fees*……..$500

**Total Direct Project Costs .....$5000**

**The ACVO-VAF does not support any institutional F&A .....$0**

**Total Costs Requested from ACVO-VAF Clinical Research Fund .....$5000**

## Investigator Information:

### A. Role of Investigators and Key Personnel:

Describe the roles of the Principal Investigator, Co-Investigator, and any other Key Personnel. If a technician will assist the resident, describe the role this technician will play. What will each person be responsible for? Please indicate the percent effort devoted to this project by each investigator or key personnel. This percent effort should total 100%.

Dr. XXX: Responsible for …

Dr. XXX: Responsible for …

Dr. XXX: Responsible for …

Dr. XXX: Responsible for …

### B. Letters of Cooperation:

It is up to the applicant to appropriately determine who is a co-investigator and who is a consultant. Letters if cooperation outlining the proposed investigative contribution in the proposed study are required from a consultant, excepting those from a *paid* statistician.

The definition of a Co-Investigator is: an individual that is jointly involved with the Principal Investigator in the scientific development and/or execution of the proposed work. This individual bears responsibility for progress of some portion of the project. This individual is typically associated directly with the organization submitting the proposal. A co-investigator DOES NOT need to provide a letter of cooperation.

The definition of a Consultant is: an individual that provides expert advice or services, but is not heavily involved in the design or execution of the project. This individual does not bear responsibility for the progress of the project. This individual typically is not directly associated with the organization submitting the proposal. Any consultant **MUST** write a letter of support that can be included in the application.

### C. Biosketch Forms:

See below.

Note that each investigator **must** use the biosketch template included in on the following page and each biosketch **must** start on a new page (i.e. a hard page break occurs between every biosketch). The VAF Clinical Research Grant Committee realizes that the following biosketch is not the same as the current NIH required biosketch that contains items such as a “personal statement”. Please use the biosketch on the following page.

## BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on the cover/signature page.
Follow this format for each person. **Do not exceed 2 pages.**

| NAME | POSITION TITLE |
|---|---|
| Place name of PI/co-I/mentor here | Place current position here |

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training)*
*Add (or delete) as many rows as necessary.*

| INSTITUTION AND LOCATION | DEGREE *(if applicable)* | GRADUATING YEAR | FIELD OF STUDY |
|---|---|---|---|
| University of Vancouver, Canada | BS | 1985 | Zoology |
| Cornell University, New York | DVM | 1989 | Veterinary Medicine |
| Animal Medical Center, New York | Internship | 1990 | Small Animal Medicine |
| University of Illinois, Illinois | Residency | 1993 | Comparative Ophthalmology |
| University of Illinois, Illinois | MS | 1993 | Comparative Ophthalmology |

### A. Research and Professional Experience

**Position and Employment**

In chronological order, list the year and title of all previous professional positions that are not listed in the education and training section above, concluding with the present position.

**Other Scientific Experience and Professional Memberships**

In chronological order, list the year and title of any related scientific experience and/or professional memberships. Examples are listed below.

1993- Diplomate, American College of Veterinary Ophthalmologists
2002- Member, Association for Research in Vision and Ophthalmology
2003- Member, American College of Veterinary Ophthalmologists
2004- Scientific Reviewer, *Veterinary Ophthalmology, Investigative Ophthalmology & Visual Science*
2005-06 Board of Advisors, American Kennel Club
2008- Editor-in-Chief, *Comparative Ophthalmology Times*

**Honors**

In chronological order, list any related honors. Examples are listed below.

2003 First Place, Roche Distinguished Graduate Seminar Award
2004 Travel Award to the 32nd Annual American Society for Photobiology Meeting
2005 Nominated Bayer Distinguished Teaching Award

### B. Selected Peer-reviewed publications (in chronological order)

In chronological order, list any peer-review publications.

## Appendices:

Please list the contents of any attached appendices. See the instructions sheet for a list of acceptable appendices that can be included. If there are no appendices, simply state “Not Applicable” here.