



Donor-Inspired Study

REQUEST FOR PROPOSALS: HEMANGIOSARCOMA INITIATIVE

PROGRAM SUMMARY

The mission of Morris Animal Foundation is to bridge science and resources to advance the health of animals. To achieve this aim, we fund hypothesis-driven, humane research projects with high scientific merit and the potential for significant impact. Our donors are interested in funding research that results in impactful animal health achievements and benefits both scientific and non-scientific stakeholders including veterinarians, pet owners, communities and the environment.

The Foundation's Golden Retriever Lifetime Study is a longitudinal cohort study of more than 3,000 golden retrievers that began in 2012. The Study was designed to enable research into the incidence and risk factors for cancer and other diseases. Dogs were under the age of 2 years at enrollment and have annual health exams, laboratory tests and samples collected for archival storage. Comprehensive annual surveys are completed by dog owners and veterinarians during the annual health exam period, and interim exams are completed when biopsy is indicated. About 60% of the cohort's dog owners arrange for a necropsy procedure to allow final tissue collections upon dog death. The Study continues to follow about 1,800 actively enrolled dogs.

Hemangiosarcoma is the most frequently observed cancer diagnosis in the cohort and represents about 70% of all primary endpoint cancer deaths. **The purpose of the Morris Animal Foundation Hemangiosarcoma Initiative is to catalyze development of new approaches to prevent, detect and treat canine hemangiosarcoma. This is a multiyear initiative.**

- Proposals that aim to leverage Golden Retriever Lifetime Study specimens and data are strongly encouraged, though proposals leveraging other samples and data also may be submitted.
- Academic and industry collaborative projects are encouraged to accelerate translation of results to practice.

AWARD CRITERIA

Two categories of awards are available:

- **Seed Awards** – total budget maximum is \$25,000; use for proof-of-concept studies, high risk-high reward projects, or where additional data is required for a larger proposal. These are 12-month projects, and when successfully completed may be competitive for additional funding from the 2024 Hemangiosarcoma RFP.

- **Innovation Awards** – total budget maximum is \$200,000; these proposals are supported by preliminary data and evaluation includes additional weighting for the strength of the project team. These are 12-month or 24-month projects, and when successfully completed may be competitive for additional funding from a future Hemangiosarcoma RFP.

MORRIS ANIMAL FOUNDATION POLICIES

Health Study Policy: Projects must adhere to the Foundation's [Health Study Policy for Animals Involved in Research](#). For this RFP, the Foundation will not fund projects that include euthanasia of animals for research purposes, nor source data and/or samples from such projects. Proposals recommended for funding by scientific reviewers are reviewed separately by animal welfare and ethics experts prior to funding.

Parachute Science: Projects that include international collaborations should address international scientific engagement and benefits, and include a named Principal Investigator or Co-Investigator in the country where the research will occur. The Foundation endeavors to achieve our objectives through ethical pathways and with the clear intention of inclusivity, diversity, and the elimination of the practice of parachute/colonial science.

COVID-19 Considerations: Research plans must include mitigation strategies for operational risks posed by the ongoing COVID-19 pandemic. Alternative strategies for travel restrictions, pandemic-related mandates, supply shortages, etc., should be included in the proposal.

Environmental Policy: Consideration should be given to reducing detrimental effects of research projects on the environment. Travel requests should be limited and well justified with respect to the project objectives. We encourage means of transportation with the lowest possible carbon emissions.

Grant Resubmission Policy: Proposal resubmissions are not permitted without explicit written permission from the Foundation. An investigator who resubmits a proposal without permission may be barred from applying to future RFPs.

For questions about Morris Animal Foundation Policies, contact grantapplications@morrisanimalfoundation.org.

APPLICANT QUALIFICATIONS

All applicants for this award must convince the scientific and animal welfare reviewers that they clearly understand the health problem, have sufficient expertise to conduct the study, are using a scientifically sound approach, and have given appropriate consideration to the overall environmental impact of their research.

A maximum of one application as Principal Investigator (PI)/Co-Investigator (CI) in response to this RFP is permitted.

APPLICATION PROCESS

Your application must be received by 5:00 p.m. Eastern Time on the designated due date.

Submit applications in [Fluxx](#). The application process includes completion of the online form and proposal attachment. Both the PI and the individual submitting the application (if different from the PI) must create an account before applying for funding. **Your account must be reviewed and validated by Morris Animal Foundation, which may take up to two business days, so please plan to create an account several days prior to the proposal deadline.** For details on how to create an account and submit an application, view our [Fluxx Applicant User Guide](#).

REVIEW PROCESS

All proposals will undergo administrative and scientific review. Each proposal is assigned to two scientific reviewers and is ultimately scored by the Scientific Advisory Board (SAB) according to this rubric. Projects recommended for funding are then screened by our Animal Welfare Advisory Board (AWAB) for adherence to our Health Study Policy for Animals Involved in Research.

PROPOSAL FORMAT AND GUIDELINES

Carefully review and adhere to these proposal guidelines. Deviations from these guidelines may result in the rejection of your proposal.

Proposal Format: Use [this proposal template](#) to complete your proposal. Do not remove any headers or sections. Indicate “not applicable” if a section or question does not apply.

The order of the research proposal must follow the order in the template. Proposals should be single-spaced or greater, using no smaller than Times New Roman 11-point font with a minimum of ¾ inch margins. Technical terminology should be defined on first usage; acronyms and abbreviations may be used subsequently. The complete proposal, including attachments, must be converted to a single PDF prior to submission.

Proposal Outline:

- A. Lay Summary** (2,000-character limit): This information may be used in communications with the public to showcase your project. Lay language should be used, and we require a Flesch Reading Ease Score of 50-70. Paste your lay language summary using this [free readability checker](#) to verify the reading level. This should not be a duplicate of the technical summary (below).
- B. Technical Summary** (2,000-character limit): For review by Foundation staff and the Scientific Advisory Board.
- C. Title Page** (1-page limit): Include the proposal title and name, institution and email address of the PI and all CIs.

D. Study Proposal (5-page limit including figures, tables and all sections i. - v. below):

Note that “not applicable” is not a sufficient response in this section.

- i. **Hypothesis and Objectives:** Be precise and enumerate specific, testable hypotheses with realistic objectives to be achieved within the timeline and budget of the proposal.
- ii. **Problem Description and Significance:** Include a brief literature summary and preliminary data (if applicable) that describes the current state of the problem and justifies the need for the proposed study/proof-of-concept study. If the PI is conducting research outside of their country of institutional affiliation, they must clearly stipulate how the information gained from their study will be used by stakeholder groups locally.

Preliminary Data: Succinctly describe any previous results by the investigator which support the proposed research. If this project is a continuation of a previous Morris Animal Foundation study, include grant ID number, title, and a brief summary of the final results. Preliminary data is not required for Pilot Studies but should be included if available and relevant.

- iii. **Study Design and Methods:** Include the experimental design and methods for each objective. Data analysis methods must also be described.
- iv. **Possible Risks and Mitigation Plans:** Identify and address any potential shortcomings of the design and methods, or potential operational challenges.
- v. **Animal Health Impact** [[Example](#)] (minimum 1 page): Impact is vitally important to our donor-supported organization. We may decline proposals where impact is incompletely addressed, particularly those lacking in impact beyond the scientific community. Scientifically robust studies in which non-academic and broader impact are integral to the study design will have the highest chance of success. Remember that the [scoring rubric](#) allocates a third of the points available to impact and engagement. **Well written proposals will consider the following questions:**

Scientific impact, including impact beyond this research field. Key questions include:

- Why is this work integral to the health and/or welfare of the species?
- Is this project likely to make a rapid contribution to solving a problem or addressing a key knowledge deficit that is obstructing progress?
- How likely is it that the findings will have an impact beyond the period of this award?
- Is there potential for wider impact e.g., for other scientific fields, animal populations, species, or geographic regions?

Non-academic impact, including stakeholders and beneficiaries. Key questions include:

- Who might be interested and who might benefit from this project?
- What are the needs of these stakeholders and how were they identified?

- Will stakeholders be involved in project design, execution, preparation of training, and/or dissemination of results? Have any been included as applicants?
- If applicable, describe the extended impact this work (or subsequent work) may have on the environment, policy, human behavior, industry, economics or public awareness.

If applicable, have connections with policy makers been established? Outline your engagement activities and outputs plan (i.e. knowledge exchange activities). Engagement beyond academic/scientific communities will substantially strengthen your proposal. Key questions include:

- What time and effort will be committed to these activities? Please include in the budget and timeline below if appropriate (section K).
- Who do you propose to engage with and how? Include letters of support if applicable.
- How will the success of engagement activities be evaluated?
- What experience do the applicants have with non-academic engagement, and/or what training or other resources are available?

- E. Resubmission Summary** (3-page limit, excluding the original SAB review): Include a copy of the original SAB review of your proposal and your responses to reviewer comments. Answer questions thoroughly as your resubmission might be evaluated by different SAB reviewers to those who reviewed your original submission. *Resubmissions are by invitation only.
- F. Sample Size Calculation** (no page limit): Use the Sample Size Form in the [proposal template](#) as applicable.
- G. Animal Involvement Justification (AIJ) Form** (no page limit): Use the AIJ form in the [proposal template](#), regardless of live animal involvement. This form is required.
- Client Consent Form:** If your study involves client owned animals, attach your Client Consent Form following the AIJ form.
- H. Recombinant DNA/Biohazards/Biosecurity Measures** (no page limit): Applicants using recombinant DNA techniques must confirm that they have complied with National Institutes of Health guidelines and have approval from their institution's Biological Safety Committee to conduct the proposed research if. Indicate any other potential biosafety concerns, including the use of radiation. Describe biosecurity measures that will be put in place to protect animals and people from transmissible disease and biological agents.
- I. Facilities and Equipment** (1-page limit): Describe facilities and equipment available to conduct the proposed research. Include resources available at the PI's institution and sub-contracted or fee-for-service resources needed to complete the research.
- J. Cited References** (2-page limit): Include complete citations referenced numerically in the body of the proposal.

K. Instructions for Budget (1-page limit): This is uploaded separately from the main proposal. Use the provided [Excel budget template](#). Indirect costs up to 8% of direct project costs are allowed; indirect costs are included in the budget maximum.

- i. **Salary:** Include salary for each person's time spent on the project as "% project appointment". Identify each person's project role. Also include the fringe benefit rate for each person, to calculate total personnel costs. If salary will not be charged to the project (in-kind contribution), list the % project appointment as "0%" on the budget form. If a contributor's salary is covered 100% by their employer, do not request salary support in the proposal.
 - Key Personnel: Salary requests for time spent on the project must be clearly defined and include % appointment and other current salary support. As we are an international funder, we expect the nature of these positions to be clearly described to aid review.
 - Technicians, Residents, Fellows, and Students: Salary requests are permitted but must be clearly defined and include % time commitment.
- ii. **Tuition:** Morris Animal Foundation does not pay for tuition.
- iii. **Equipment:** Requests for equipment purchase may not exceed \$5,000 for the lifetime of the project.
- iv. **Travel:** Requests for travel to scientific meetings must be well-justified in terms of environmental and scientific impact and should not exceed \$2,000. Travel needed to complete research objectives should be budgeted separately. Travel must be essential; resources or activities that provide alternatives are preferred. Possible ongoing disruptions to travel due to COVID-19 should also be considered. For international project teams, activities should be conducted wherever possible by teams and/or collaborators already in-country.
- v. **Indirect Costs:** Up to 8% of the budget can be applied to indirect costs if your institution charges for these costs. The addition of indirect costs should not result in the total exceeding the maximum allowable budget. If a subaward to another organization is proposed, the total indirect costs may not exceed 8% for the subaward. We encourage provision of indirect costs as in-kind from your institution whenever possible.
- vi. **Other Project Expenses:** Briefly categorize other project expenses e.g., laboratory or clinical consumables; reagents; non-equipment study supplies; and service fees for specimen analysis.

Once completed, upload Excel budget spreadsheet into the Document section in Fluxx. This will be a separate upload from the rest of the [proposal template](#).

L. Budget Justification and Timeline Summary (2-page limit): [\[Example\]](#) Use the budget justification section in the [proposal template](#). Use the project timeline to demonstrate how the research objectives will be completed in the timeframe requested. Include data analysis time and manuscript preparation time.

M. Current and Pending Support (no page limit): The Foundation wishes to support discrete research proposals that have not already received funding from elsewhere. This avoids duplicating lengthy review processes and widens our net to support other deserving, but not yet funded proposals. Please identify all active or pending support for the PI and all Co-Investigators. Where overlap, whether scientific or budgetary, may be perceived, please explain. The Foundation is also anxious to ensure that researchers have enough time to complete their projects. Therefore, we request information regarding time commitment to this project. Researchers who are overcommitted and already have 100% of their time allocated to other work, are not permitted to apply. Submissions to other funding sources should not duplicate this project unless we have already officially declined to fund it. Provide the following information for all current and pending support.

- i. **Project ID, Funding Source, Start and End Date of Award**
- ii. **Project Title**
- iii. **Summary:** Summarize project objectives and results to date
- iv. **Overlap:** If any scientific, budgetary or effort overlap might be perceived, explain why no overlap exists.

N. Biographical Data (2-page limit per person): Include a biosketch for each PI and Co-Investigator with the following information. This might take the form of a resume/CV.

- i. **Name, Role on this Project**
- ii. **Current Position** (title, institutional affiliation, institutional address)
- iii. **Education and Training** (degrees, institution, year completed, areas of emphasis)
- iv. **Previous Positions, Honors, Awards, Committee Assignments**
- v. **Selected Peer-reviewed Publications** (include titles, all authors and complete reference)

O. Letters of Support: Include a letter of support from any collaborator, funding agency, policymaker or commercial partner whose contributions are required to achieve the research objectives described in the proposal. Indicate the letters of support that you will be adding (i.e., one letter from my head of department, two from collaborators etc.), convert these to PDF format and combine with the template PDF for upload as a single file.

Once completed, convert word files to a PDF and combine all documents into a single PDF for upload.

QUESTIONS REGARDING THE SUBMISSION PROCESS?

Please contact grantapplications@morrisanimalfoundation.org for assistance.