PLEASE INCLUDE THIS PAGE AS THE COVER SHEET WITH YOUR APPLICATION

Physiology of Aging T32 Training Grant Application
Trainee Candidate ____ PRE-DOC ____ POST-DOC

APPLICANT:	POSITION/TITLE:
EMAIL:	eRA Commons ID linked to ORCID iD *(required)*:
PRIMARY MENTOR NAME and EMAIL (one only):	ASSOCIATE MENTOR(s) NAME and EMAIL:

EDUCATION/TRAINING: (*Begin with baccalaureate or other initial professional education)*

INSTITUTION AND LOCATION	DEGREE / GPA *(if applicable)*	DATE (mm/yyyy)	FIELD OF STUDY

Home Address and Phone/Cell Number:	
Title of Dissertation or Thesis:	
T32 Project Title (must relate to aging):	
GRE Scores: Written / Verbal / Quantitative (*Pre-doctoral candidates only*)	
If applicable, all associated IRB / IACUC protocol numbers and most recent approval date. Please note who the PI of the protocol is. If pending, so state. EX: 21-5027 IRB 02/01/22 PI Moreau	
Requested Start Date of T32:	
Estimate of credit hours for first 12 months.	
If currently employed by University of Colorado please provide:	Employee ID#: Campus: Dept/Division: Dept/Division Administrator's email:
Are you a U.S. citizen, noncitizen national or permanent resident? Yes/No	
Self-identify if you are disabled with a physical or mental impairment that substantially limits one or more major life activities. Yes/No	
Self-identify if you are from a disadvantaged background. Yes/No	

Please refer to Individuals from Disadvantaged Backgrounds | Diversity in Extramural Programs (nih.gov)	
Self-identify if you are a member of an underrepresented racial group(s). **(Indicate: American Indian/Alaskan Native, Asian, Black or African American, Native Hawaiian or other Pacific Islander, more than one race)**	
Self-identify if you are Hispanic or Latino. Yes/No	
Is primary mentor disabled with a physical or mental impairment that substantially limits one or more major life activities. Yes/No	
Is primary mentor from a disadvantaged background. Yes/No	
Is primary mentor a member of an underrepresented racial group(s). **(Indicate: American Indian/Alaskan Native, Asian, Black or African American, Native Hawaiian or other Pacific Islander, more than one race)**	
Is associate mentor disabled with a physical or mental impairment that substantially limits one or more major life activities. Yes/No	
Is associate mentor from a disadvantaged background. Yes/No	
Is associate mentor a member of an underrepresented racial group(s). **(Indicate: American Indian/Alaskan Native, Asian, Black or African American, Native Hawaiian or other Pacific Islander, more than one race)**	

General criteria and selection process

- **Prior to preparing application, the prospective Primary mentor must speak with Dr. Kerrie Moreau about the proposed project and receive an approval email from her to move forward with the application. This must be completed at least 2 weeks prior to the application deadline. Enclose the approval email in the application.**
- Applicants must be a U.S. citizen, noncitizen national or permanent resident.
- Anyone eligible is encouraged to apply; individuals with disabilities, and/or from a disadvantaged background, and/or from underrepresented racial/ethnic groups, are especially encouraged to apply. Individuals from Disadvantaged Backgrounds | Diversity in Extramural Programs (nih.gov)
- All proposals should relate to the Integrative Physiology of Aging T32 and **must** relate directly to aging. Appropriate subject matter would: 1) be publishable in aging specific journals; 2) include terms such as “aging”, “older”, “age-related” in the title; 3) be related to a disease or syndrome that is strongly related to an aging population (e.g. prostate cancer, Alzheimer’s disease)
- All awardees will be required to apply for other individual grants (e.g., NIH F31 or F32 fellowship) within their first year on the T32
- All awardees doing human subject research are required to have approval from their IRB and SARC (if appropriate) prior to the start of the T32 appointment
- All awardees doing human subject research must complete the NIH required human subjects training (CITI Biomedical Investigator www.citiprogram.org or similar program) prior to starting any aspects of the project
- Please refer to the current NIH Grants Policy Statement for specific Institutional NRSA (T32) details and requirements in Section 11.3. https://grants.nih.gov/policy/nihgps/index.htm

Mentor Requirements

- Co-mentoring between senior and junior level faculty for trainees is required.
- Only one Primary Mentor is allowed, but there may be multiple Associate Mentors.
- Carefully select Primary and Associate mentors to meet the following criteria:
    - Primary mentor must: 1) have sufficient funding to help support a trainee; 2) demonstrated research mentoring experience; 3) demonstrated track record in aging-related research or clear explanation of new interest in aging
    - Associate mentor may be deficient in one or more of those criteria, but must have time to meet regularly with the trainee

Application Requirements: Please submit as a complete package and <u>in the following order</u>. At a minimum Coversheet, Biosketches, Project Description, and RCR Plan <u>must be submitted in searchable PDF format.</u>

☐ Email of approval to proceed with application to your Primary Mentor from Dr. Kerrie Moreau

☐ This completed Coversheet

☐ **1-page** Letter of Interest from candidate that clearly indicates interest in an aging-related academic career

☐ A list of your recommenders' names. Confidential Letters of Recommendation (LOR) to submit:

3 total for pre-docs; 4 total for post-docs *(must be submitted from the letter writer to the committee directly via Peggy.McIntosh@cuanschutz.edu)*

- **1 LOR** from combined Primary and Associate mentors documenting support. **Max 2 pages**.
- **2 additional LORs. Max 2 pages each.**
- **POST-DOCS ONLY: In addition to 3 mentioned above, a LOR from former graduate mentor. Max 2 pages.**

☐ Applicant's NIH Biosketch with Personal Statement http://grants.nih.gov/grants/forms/biosketch.htm

- Section C must include the NCBI publications link for Complete List of MyBibliography.

☐ Mentors' NIH Biosketches with Personal Statement http://grants.nih.gov/grants/forms/biosketch.htm

- Section C must include the NCBI publications link for Complete List of MyBibliography.

☐ Mentoring Plan (include plan for professional skills developed and training in the biology of aging, e.g., taking or auditing course work such as IPHY 6010 Seminar: Physiology of Aging, MCDB 5680: Mechanisms of Aging, etc.) – provided by Primary Mentor. **Max 1 page**.

☐ **3-page project description (Arial 11; ½" margins) –** *excluding references*

- Specific aim / hypothesis
- Brief Background
- Brief experimental approach. **Standard methodologies may be referenced.**
- Brief statistical approach for data analysis, including sample size/power calculation.
- Briefly describe approach to rigor, reproducibility, and sex as a biological variable (when appropriate).
- Brief timeline for research activity and expected end products of the proposed research (spanning 2 possible years of funding)
- References *(in addition to 3-page project description)*

☐ Plan to satisfy Responsible Conduct of Research requirements. Section 11.3.3.5 in the most current NIH Grants Policy Statement https://grants.nih.gov/grants/guide/notice-files/NOT-OD-22-055.html

- Format: must include face-to-face discussions among trainees (case studies)
- Subject Matter: (see list in 11.3.3.5.2)
- Faculty Participation: training faculty are highly encouraged to participate in formal/informal instruction
- Duration of Instruction: at least 8 contact hours of instruction (semester-long series are preferred)
- Frequency of Instruction: at least once in each career stage and/or every 4 years

☐ Plan for Instruction in Methods for Enhancing Reproducibility. To promote scientific integrity, the NIH published notice NOT-OD-15-103 to enhance the reproducibility of research findings through increased scientific rigor

and reproducibility. The five identified elements that will be implemented into the Aging T32 for predoctoral and postdoctoral trainees include: **1)** evaluation of foundational research underlying a project (i.e., rigor of prior research); **2)** rigorous experimental design and data interpretation; **3)** consideration of relevant biological variables such as sex; **4)** authentication of key biological and/or chemical resources; and **5)** transparency in reporting.

☐ Written assurance that the candidate has met or will meet all criteria stipulated in the NIH T32 regulations including completion of a course on the ethical conduct of research.

☐ Written assurance that the primary and associate mentors have or will complete formal mentor training and periodic refreshers. Following topics should be considered in the formal training:

- Aligning expectations
- Maintaining effective communication
- Fostering independence
- Assessing scholars' understanding of scientific research
- Enhancing professional development
- Addressing equity and inclusion
- Articulating your mentoring philosophy and plan

☐ Written assurance and acknowledgement that the candidate and the primary mentor will respond in a timely fashion to request for information for the T32 RPPR and future renewal applications. Failure to respond will result in termination of the applicant from the T32 and disqualification of primary mentor from having future trainees apply for T32 funding

☐ **PRE-DOCS ONLY:** Transcripts
  - Undergraduate
  - Graduate