**PLEASE INCLUDE THIS PAGE AS THE COVER SHEET WITH YOUR APPLICATION**

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| T32 Transdisciplinary Training in Sleep and Circadian RhythmsTraining Grant Application SP20 application – Due Feb 8, 2021 by 5PM MSTSend complete application package to Kenneth.wright@colorado.edu **Trainee Candidate \_\_\_\_ PRE-DOC \_\_\_\_ POST-DOC** | | | | |
|  | | | | |
| APPLICANT: | | POSITION/TITLE: | | |
| EMAIL: | | eRA Commons ID (*if available*): | | |
| PRIMARY MENTOR NAME and EMAIL (one only): | | ASSOCIATE MENTORS NAMES and EMAILS (minimum of two): | | |
| EDUCATION/TRAINING: (*Begin with baccalaureate or other initial professional education)* | | | | |
| INSTITUTION AND LOCATION | DEGREE / GPA  *(if applicable)* | DATE (mm/yyyy) | | FIELD OF STUDY |
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| Home Address and Phone/Cell Number: | | |  | |
| Title of Dissertation or Thesis: | | |  | |
| T32 Project Title (must relate to sleep and circadian science): | | |  | |
| 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: 1234-01 IRB 06/01/15 PI Wright | | |  | |
| Requested Start Date of T32: | | |  | |
| Estimate of credit hours and tuition 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 | | |  | |
| Self-identify if you are a member of an underrepresented racial/ethnic group(s). **(Indicate: Alaskan Native, African American, Latino, Native American and/or Pacific Islander)** | | |  | |

***Diversity / Inclusive Excellence Strategy***

This T32 is committed to inclusive excellence and diversity in the training of future biomedical research scientists. We aim to train a diverse workforce through the participation of trainees from all groups in our research teams. We seek and encourage applications from outstanding trainees including, but not limited to, underrepresented minorities, underserved communities, trainees with disabilities, individuals who identify as sexual orientation/gender minorities, first generation college students, and women. Diversity is highly valued by our scientific community as it provides innovative, balanced, and informed perspectives that enhances scientific productivity and fosters the growth of the scientific field.

For more information on NIH criteria of Underrepresented Populations in the U.S. Biomedical, Clinical, Behavioral and Social Sciences Research Enterprise see: <https://grants.nih.gov/grants/guide/notice-files/NOT-OD-20-031.html>

Please reach out to the Colorado Transdisciplinary Training in Sleep and Circadian Rhythms

Training program director with questions. Prof. Kenneth Wright [Kenneth.wright@colorado.edu](mailto:Kenneth.wright@colorado.edu)

***General Criteria and Selection Process of Mentees***

* **Prior to making application, the prospective Primary mentor must contact Prof. Wright email** [**Kenneth.wright@colorado.edu**](mailto:Kenneth.wright@colorado.edu)**) before February 3rd about the proposed project topic to ensure that it is generally responsive to the aims of the T32 and receive an approval email from him to move forward with the application. Attach the approval email to the application.**
* **See information for this T32, including names of Faculty Mentors on the T32, at the dedicated webpage:** https://www.colorado.edu/iphy/research/sleep-and-chronobiology/t32-training-grant
* Applicants must be a U.S. citizen, noncitizen national or permanent resident.
* Anyone eligible is encouraged to apply; individuals from underrepresented racial/ethnic groups are especially encouraged to apply.
* All proposals should relate to the specific foci of the Transdisciplinary Sleep and Circadian Rhythm T32 and **must** include sleep and/or circadian research. Example appropriate subject matter would be: 1) include terms such as “sleep”, “circadian”, “diurnal”, “time of day”; 2) be related to a disease or syndrome that have sleep or circadian disorders (e.g. depression, cancer)
* All awardees will be required to apply for other individual grants
* All awardees doing human subject research are required to have approval from their IRB and the Scientific and Advisory Research Committee of the Colorado Clinical and Translational Sciences Institute (if appropriate)
* All awardees doing non-human animal research are required to have approval from their IACUC
* All awardees must complete the appropriate trainings prior to starting any aspects of the project (e.g., CITI Investigator [www.citiprogram.org](http://www.citiprogram.org); biohazard training, radiation safety training etc… as appropriate)
* 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 faculty for trainees and inclusion of a sleep and circadian expert is required.
* Only one Primary Mentor is allowed and a minimum of two Associate Mentors is required (e.g., more than three total mentors is allowed).
* 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 for mentees at the applicants level [i.e., minimum of three completed mentees at the applicants level], 3) be selected from the list of faculty affiliated with the training program

<https://www.colorado.edu/iphy/research/sleep-and-chronobiology/t32-training-grant/training-faculty>

* + Associate Mentors should be selected to facilitate the mentees training. Note that faculty that are not listed in the training program can serve as Associate Mentors. Associate Mentors may be deficient in one or more of those criteria for being a Primary Mentor but must have time to meet regularly with the trainee.
  + Each team must include at least one sleep and circadian expert mentor. The sleep and circadian expert mentor can serve as a Primary or Associate Mentor. The table at the end of this application provides names for the T32 mentors that meet the criteria for inclusion as a sleep and circadian expert mentor and their research foci.

***Application Requirements submitted in this order. At a minimum Biosketches, Project Description, and RCR Plan must be submitted in searchable PDF format.***

* Cover Sheet
* Email of approval to proceed from Prof. Wright
* Letter of interest from candidate that clearly indicates interest in a research career that incorporates sleep and circadian research
* NIH format Biosketch with Personal Statement *(Required)* <http://grants.nih.gov/grants/forms/biosketch.htm>
* Mentors’ NIH Biosketch with Personal Statement *(Required) – In Personal Statement section present mentoring history and plan for mentoring this specific candidate*
* Letters of recommendation – **3 total for pre-docs; 4 total for post-docs** *(must be submitted from the letter writer to the committee directly via* [*kenneth.wright@colorado.edu*](mailto:kenneth.wright@colorado.edu) *). Please have letter writers indicate Colorado T32 recommendation letter and the trainees name in the email subject line.* 
  + **1** from all mentors documenting support (combined Primary and Associate mentors)
  + **2** additional letters
  + **POST-DOCS ONLY: 1 additional letter from former graduate mentor (please contact Prof. Wright with any concerns / extenuating circumstances regarding this specific letter)**
* **3-page project description maximum (Arial 11; ½” margins) –** *excluding references**(from candidate)*
  + 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.
  + Brief timeline for research activity and expected end products of your research (spanning 2 possible years of funding)
  + References *(in addition to 3-page project description)*
* Plan to satisfy Responsible Conduct of Research requirements in the most current NIH Grants Policy Statement <https://grants.nih.gov/policy/nihgps/index.htm>
  + Format: must include face-to-face discussions among trainees (case studies)
  + Subject Matter: (see T32 webpage for details)
  + Faculty Participation: training faculty are required 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
* 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.
* **PRE-DOCS ONLY:**
  + Transcripts
    - Undergraduate
    - Graduate
  + GRE Scores
* **POST-DOCS ONLY:**
  + Copy of PhD or MD diploma or date degree was conferred if diploma not yet available

**Table. List of mentors that meet the criteria for inclusion as a sleep and circadian expert mentor for this T32 training program.**

| Name | Degree(s) | Rank | Primary Department or Program | Research Interest  (sleep circadian interest if not a sleep/circadian expert) |
| --- | --- | --- | --- | --- |
| Broussard, Josiane L. | PhD | Asst. Prof. | Health and Exercise Science | Tissue-specific insulin sensitivity and metabolism (sleep, circadian  rhythms, timing of behaviors such as eating and exercise) |
| Diniz Behn, Cecilia | PhD | Assoc. Prof. | Applied Mathematics and Statistics | Mathematical modeling of sleep, circadian rhythms, and metabolism |
| Eckle, Tobias | MD, PhD | Prof. | Anesthesiology | Myocardial ischemia, acute lung injury  (circadian clocks, light exposure, and cardiac function) |
| Edinger, Jack D | PhD | Prof. | Pulmonary, Critical Care & Sleep Medicine | Behavioral Sleep Medicine, insomnia |
| LeBourgeois, Monique K | PhD | Assoc. Prof. | Integrative Physiology | Sleep, circadian rhythms and development |
| Meltzer, Lisa J | PhD | Assoc.  Prof. | Pediatric Behavioral Health | Pediatric sleep, sleep in caregivers of children with chronic illness |
| Opp, Mark R | PhD | Prof. | Integrative Physiology | Insufficient sleep, inflammation, pre-disposition and/or exacerbates chronic pathologies |
| Spencer, Robert | PhD | Prof. | Psychology & Neuroscience | Neurobiology of psychological stress and stress adaptation; (Circadian rhythms and the role of clock gene expression in brain function) |
| Vetter, Celine M | PhD | Asst. Prof. | Integrative Physiology | Circadian and Sleep Epidemiology |
| Wright, Kenneth P. | PhD | Prof. | Integrative Physiology | Sleep and Circadian Rhythms, cardiometabolic health and performance |

**Note that a complete list of faculty that can serve as Primary Mentor for this training program can be found at this link:**

<https://www.colorado.edu/iphy/research/sleep-and-chronobiology/t32-training-grant/training-faculty>