

PRINCIPAL ADMINISTRATIVE
POSITION DESCRIPTION

for the period _____7/6/2020_____to_____6/30/2021_____

NAME: _____

TITLE: Researcher II _____

DEPARTMENT: Pharmacology _____

FLSA STATUS: Exempt _____

POSITION FUNCTION

Researcher II will provide technical assistance and laboratory support to Dr. Brandon Cox's laboratory. Dr. Cox studies hearing loss and regeneration of sounds sensing cells (called hair cells) in the cochlea of the inner ear. We also have collaborations where we investigate development and regeneration of hair cells in vestibular organs which regulate the sense of balance. The Cox lab uses genetically modified mouse models to delete or over-express genes in specific cells types as a tool to investigate molecular mechanisms. We also use a variety of methods including immunofluorescent staining, confocal microscopy, real time qPCR, in situ hybridization, and auditory brainstem response. Dr. Cox's research is currently funded by the NIH and a private company.

ORGANIZATIONAL RELATIONSHIPS

Researcher II will report to Dr. Cox and may supervise undergraduate or graduate students.

DUTIES AND RESPONSIBILITIES

The following information is intended to be representative of the work performed by incumbent in this position and is not all-inclusive. The omission of a specific duty or responsibility will not preclude it from the position if the work is similar, related, or a logical extension of position responsibilities.

Researcher II will be responsible for maintaining mouse colonies which includes breeding, weaning, genotyping, injections, and sample collection. Researcher II will work independently to perform experiments relevant to Dr. Cox's grants, contracts, and grant applications by performing a variety of experimental techniques and data analyses. Researcher II will operate and maintain laboratory equipment, manage lab supply orders and shipments, and keep the lab organized. Researcher II will also supervise graduate and undergraduate students, ensure that all lab members are trained regarding safety regulations, and assist other lab members in the Cox lab with a variety of experimental techniques as needed.

Demonstrates, by actions, commitment to the mission and the behavioral standards of SIU School of Medicine. Provides excellent service to both internal and external customers through collaboration and partnership; compassion and respect; integrity and accountability; diversity and inclusion; as well as continuous learning and improvement.

I. Administration _____5____%

1. Order lab supplies
2. Ship tissue samples to collaborators

II. Teaching _____5____%

1. Train other lab members on safety regulations
2. Supervise graduate and undergraduate students.

III. Research _____90____%

1. Maintain mouse colonies for breeding, weaning, and general health assessment & keep relevant logs up to date.
2. Perform tattooing, injections, and sample collection.
3. Work independently to perform experiments relevant to Dr. Cox's grants, contracts, and grant applications.
4. Perform a variety of experimental techniques such as cochlear dissection, immunofluorescent staining, confocal microscopy, auditory brainstem response, etc.
5. Perform a variety of data analyses and assist in the preparation of figures for reports and publications.
6. Assist other lab members in the Cox lab with a variety of experimental techniques
7. Maintain accurate and comprehensive records of experiments and results.
8. Attend weekly laboratory meetings and participate in discussion of the assigned paper.
9. Present an update of research projects at the Cox lab meeting twice a year

IV. Service _____0____%

AUTHORITY AND RESPONSIBILITY

Researcher II can make recommendations to Dr. Cox regarding employee hiring, but has no authority to act. Researcher II does not have access to the laboratory budget.

MINIMUM QUALIFICATIONS

MA/MS degree or BS/BA degree in appropriate field and at least 2 years work experience in a relevant field.

Sensitive to the needs of underrepresented minority populations.

DESIRABLE QUALIFICATIONS

Previous experience working with mice or rats is preferred.

WORKING CONDITIONS/PHYSICAL DEMANDS

Researcher II will work in Dr. Cox's laboratory and in the SIU animal facility, which includes the use of potentially hazardous chemicals. No physical demands are present. See attached Physical and Environmental Requirements form

Incumbent

Date

Supervisor

Date

Department Head/Chair

Date