

Documents needed for Visual Sciences- CoBRE Pilot Project

Documents Required for Letter of Intent

1. A 300-word or fewer document describing your research and how it specifically relates to the scientific themes of the VS-CoBRE and the use of VFM core.
2. An updated NIH Biosketch (using the most-recent forms); limit to five pages
3. An NIH-style Other Support Page (include start-up package if recently hired)

Documents Required for Full Submission:

❖ Face Page

- ❖ This form will be provided to you. You will need to complete the highlighted areas.

❖ Project Summary

- ❖ This 2-page form will be provided to you.
- ❖ This is where you will provide your Project Summary/Abstract and Relevance.
- ❖ Information also required:
 - ❖ Performance Site
 - ❖ Senior/Key Personnel information
 - ❖ Other Significant Contributors
 - ❖ Question to Human Embryonic Stem Cells

Full Documents Required Continued:

❖ Research Strategy Section

- ❖ You must use the PHS Continuation forms for this section. A blank form will be provided to you.
- ❖ This section includes:
 - ❖ Specific Aims (1-page limit)
 - ❖ Research Strategy (3-page limit)
 - ❖ References (no page limit)

❖ Biographical Sketch

- ❖ Provide a Biosketch for all Key Personnel
- ❖ 5-page limit
- ❖ Must use the latest template and instructions for preparing bio.

Full Documents Required Continued:

❖ Budget

- ❖ Please use the template provided to you (PHS398: Form Page 4)
- ❖ Your subtotal and Total Direct Costs must equal \$75,000 or less

❖ Budget Justification

- ❖ Please use the continuation form provided to you

Vertebrate Animal Documents (if applicable)

If your project includes the use of vertebrate animals, you will need to submit the following:

❖ Vertebrate Animal Section

- ❖ Please use the provided continuation form template
- ❖ No page limits
- ❖ Must include all three required sections by NIH
- ❖ If applicable, please include Select Agent Research and Authentication of Key Biological and/or Chemical Resources. These documents can be included in the same continuation document with your Vertebrate Section.

❖ IACUC Approval

- ❖ You must provide a copy of your approved IACUC Protocol or provide documentation that you have applied for an IACUC protocol.

Human Subjects & Clinical Trials Information (if applicable)

If your project includes the use of Human Subjects, you will need to provide the following:

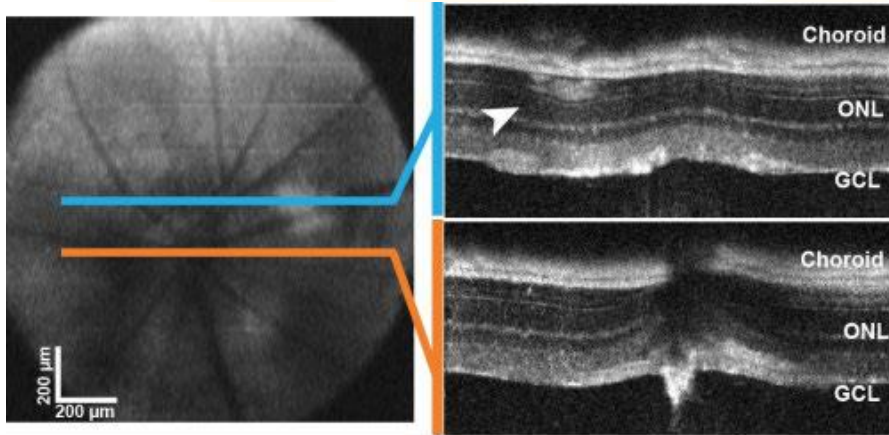
- ❖ Human Subjects & Clinical Trials Information Form
 - ❖ This form will be provided to you
- ❖ You must provide a copy of your IRB Approval or provide documentation that you have applied for an IRB approval
- ❖ Documentation of the human subjects education for those involved in the design and conduct of human subjects research
- ❖ Creation of new enrollment report in HSS (if applicable)

Visual Function and Morphology Core:

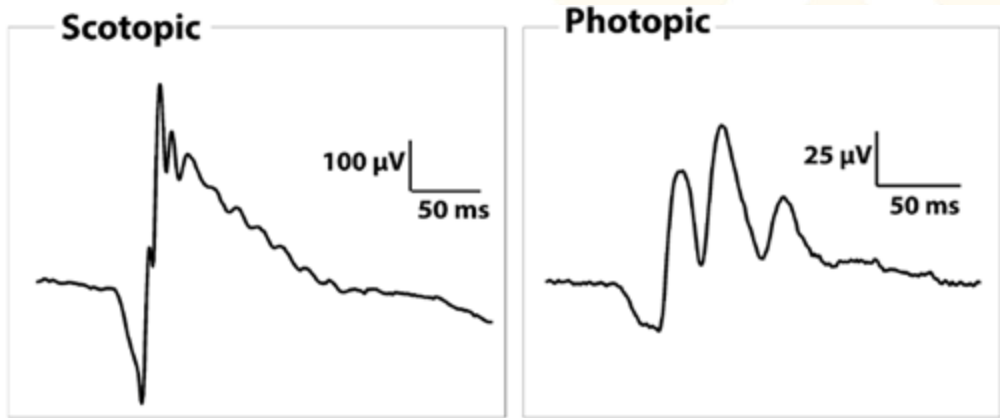
❖ Equipment Available

- ❖ LKC and Celeris Electoretinography (ERG) Systems
- ❖ JEOL Transmission Electron Microscope 1400
- ❖ OptoMotry Optokinetic Response (OKR) System
- ❖ SIM and STORM Super-resolution Microscopes
- ❖ Olympus Slide Scanner
- ❖ Optical Coherence Tomography (OCT) System
- ❖ Vevo Ultrasound System
- ❖ Zeiss and Nikon AXR Confocal Microscopes
- ❖ Cryostat
- ❖ Vibratome & Ultramicrotome
- ❖ Leica UC7 Ultramicrotome
- ❖ Image analysis workstation
- ❖ Phoenix-Micron 5

Visual Function and Morphology Core:

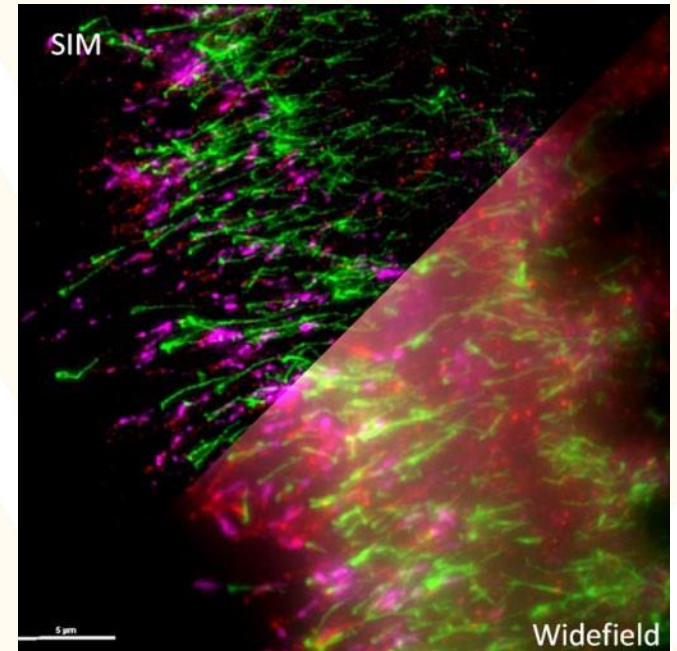


OCT measurements of retinal thickness



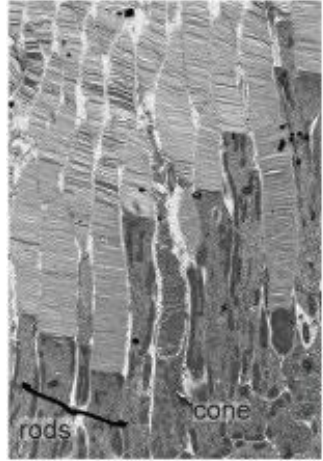
ERG measurements of retinal function

Comparison of SIM super resolution to standard confocal microscopy

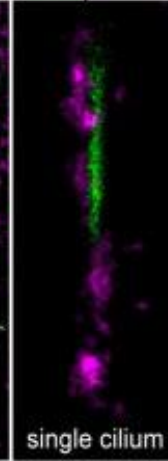
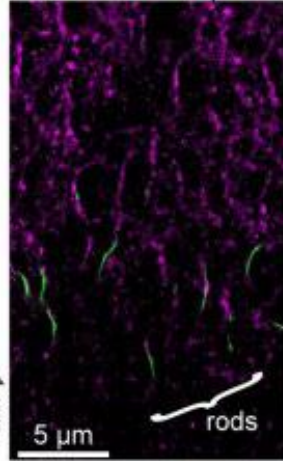


Visual Function and Morphology Core:

TEM

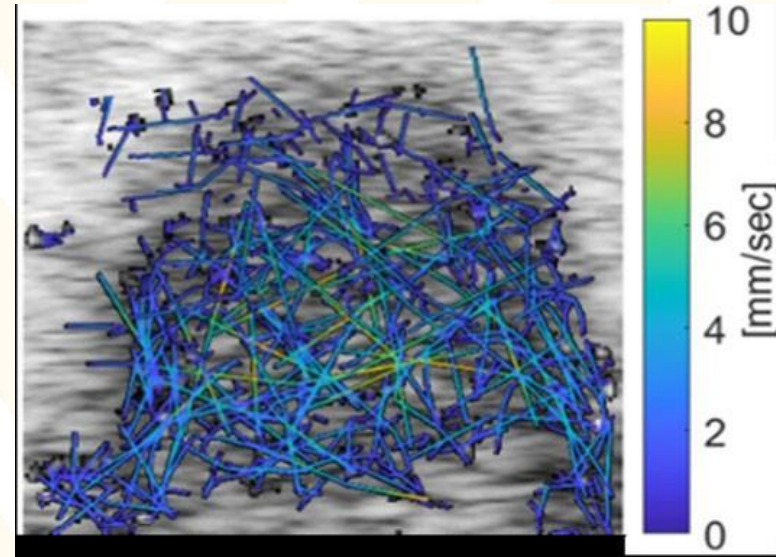


STORM (Rho + cilia)



Transmission electron and super resolution light microscopy of photoreceptor cell layer

Retinal blood flow tracing using microbubble contrast agent and the Vevo Ultrasound



Thank you for applying!!

Completed letters of intent and full applications should be sent as a single pdf to:
Caitlin Cather at ccather1@hsc.wvu.edu

If you have any questions on the forms or documents required, please reach out to:
Melissa Kuhn at mkuhn@hsc.wvu.edu