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Generating Models of RPE Disease to Elucidate Relationships Between Intercellular Junctions and Angiogenic Factors

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RESOURCE SHARING PLAN

The goal of this R15 project is to generate *in vitro* models of the loss of intercellular junctions and the addition of mechanical stress to determine how junctional protein expression affects angiogenic factors in the RPE. We believe that sharing of the research resources, including those developed through NIH-sponsored research, is important to advance biomedical research. The applicant and her team are committed to sharing resources with the research community in accordance with the NIH Sharing Policy including the Principles and Guidelines for Recipients of NIH Grants and Contracts. All the results and accomplishments of the research activities supported by this project will be made available to the public.

1. Data Sharing Plan: The research results will be published in primary scientific journals such as *Investigative Ophthalmology and Visual Science*, *Experimental Eye Research*, *Biomaterials*, *Journal of Biological Engineering*, and the *Annals of Biomedical Engineering*, so that our colleagues can access our most recent research discoveries. To ensure that the public has access to these results, papers will be submitted to the digital archive PubMed Central upon acceptance for publication. If the journal's publishers allow, we will also post accepted versions of our manuscripts at DigitalCommons@USU (<http://digitalcommons.usu.edu/>) through the Utah State University (USU) library, which is accessible to the public with no restrictions or charges. PhD dissertations, as well as MS and honors undergraduate theses written by the involved graduate and undergraduate students will also be posted at DigitalCommons@USU. In addition, the PIs and students will present their research at professional conferences such as the Association for Research in Vision and Ophthalmology and the Institute of Biological Engineering.

When needed, the USU Division of Technology Transfer Services Office will be involved in generating license agreements, material transfer agreements, and confidentiality agreements related to intellectual property and confidentiality of the corresponding resources. The required data will be kept up to three years following the closeout of the grant/contract.

2. Sharing Model Organisms: Research resources generated from this project, including knockdown and knockout cell lines, will be made available in accordance with the NIH Data Sharing Policy and Model Organism Sharing Policy to all researchers in both the private and public sectors free or for a nominal charge, and with minimal restriction. USU has policies supportive of deposition of samples in publicly accessible databases and via publications. USU has various capabilities and services that support this effort, if needed. Upon request, the resources will be distributed to the requesters in a timely manner. When needed, USU Division of Technology Transfer Services Office will be involved in generating license agreements, material transfer agreements, and confidentiality agreements related to intellectual property and confidentiality of the corresponding resources.
3. Genome Wide Associated Studies / Genomic Data Sharing: Most likely not applicable as the generation of genomic data is not expected. USU has an onsite Center for Integrated BioSystems which can provide comprehensive genomic sequencing, genotyping, proteomics, flow cytometry, and bioprocessing for a fee, if needed.