

**Saint Louis University
President's Research Fund (PRF)
Progress & Productivity Report**

PI Name: William S. Stark
Department: Biology
Date: September 4, 2013

PRF Funding Level	Date of Award (month/year)	Project Title
\$25,000	Feb. 2010-Aug. 2011	Visual receptor cells as a model system to understand how cells target gene products to the correct locations

Instructions: Recipients of PRF awards are expected to complete annual progress reports for 3 years following the award date. Please provide the information requested below each year by the end of the month following the award date (e.g., the progress reports for an award presented in February 2010 would be due by the end of March 2011, March 2012, and March 2013).

Summarize your progress on this project to date, including how the PRF award led, directly or indirectly, to externally funded grant applications/submissions or contract negotiations, publications, and/or provisional patent applications:

The budget was for supplies, salaries and equipment for my collaborative project with Prof Eissenberg at SLU's Doisy Research Center. During this reporting period, that work resulted in Shan Luan's presentation, refereed publication, and PhD dissertation (see publications, below). She is now a postdoctoral fellow in the laboratory of William Sly at SLU. Several related projects gave research experiences to undergraduate students two of whom (Anderson and Shaikh) are now medical students at SLU and one of whom (Denny) is a medical student at Washington University (see research notes during this reporting period, publications, below)

This report is subsequent to an earlier report (cover letter <http://starklab.slu.edu/JCE/PRFCoverLetter.pdf>, budget <http://starklab.slu.edu/JCE/PRFBudget.pdf>, technical report <http://starklab.slu.edu/JCE/PRFTechnicalReport.pdf>).

Extramural Funding Applied for Resulting from Seed Grant NONE

Submission Date	Submission Amount	Direct Cost	Indirect Cost	eRS ID #	Sponsor/Agency	Title
	\$	\$	\$			
	\$	\$	\$			

Extramural Funding Received Directly Resulting from Seed Grant NONE

Award Date	Award Amount	Direct Cost	Indirect Cost	eRS ID #	Sponsor/Agency	Title
	\$	\$	\$			
	\$	\$	\$			
	\$	\$	\$			
	\$	\$	\$			
	\$	\$	\$			

Publication(s) Directly Resulting from PRF Grant Project:

Presentation at the Midwest Drosophila Research Conference (Luan, Ilvarsonn, Stark and Eissenberg “Drosophila – the ultimate model for analyzing the new adaptor protein GGA” on line at <http://starklab.slu.edu/JCE/midwest2011meeting.pdf>).

Luan et al., refereed article published at PLoS: “The unique GGA adaptin of Drosophila melanogaster is not essential” on line at <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0045163>

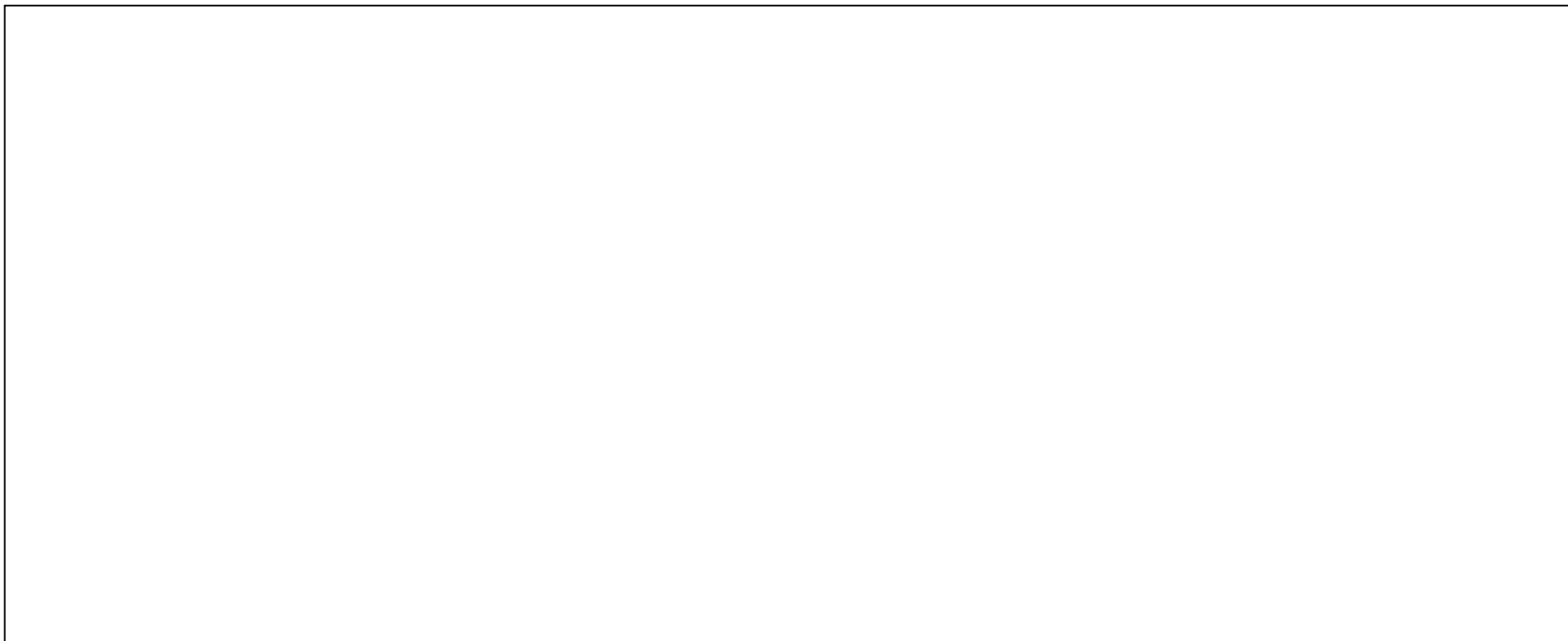
Luan, Shan, Mechanism of lysosomal enzyme sorting in Drosophila, PhD dissertation, SLU, 2013
<http://starklab.slu.edu/JCE/LuanDisSem2013.pdf>

Research note Shah et al., “Light-induced retinal degeneration in Drosophila with green fluorescent protein (GFP) attached to rhodopsin” Drosophila Information Service (vol 44, 2011, pp80-82, on line at <http://www.ou.edu/journals/dis/DIS94/Shah%2080.pdf>).

Research note Denny and Stark “Rhodopsin traffic investigation with the heat shock promoter” Drosophila Information Service 95, 79-81, 2012 <http://www.ou.edu/journals/dis/DIS95/Denny%2079.pdf>

Research note Anderson and Stark, “Confocal microscopy of light-induced holes deep in compound eyes of Drosophila, Drosophila Information Service 95, 92-93, 2012 <http://www.ou.edu/journals/dis/DIS95/Anderson%2092.pdf>

Provisional Patent Application(s) Directly Resulting from PRF Grant Project: NONE



Please complete the Report of Expenditures Template and upload to your eRS President's Research Fund Internal Transmittal form. This template can be found on eRS Forms from the eRS Home Page (ers.slu.edu).