**Project Title:** Quantification of disease severity of charcoal rot in plant hosts by qPCR

**Principal Investigator:**

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**Research objective:**

To establish a qPCR assay that can accurately quantify the amount of *M. phaseolina* in different types of samples and is suitable for disease progression analysis in host plants.

**Research Progress:**

Currently, a graduate student is working on optimizing the protocol for genomic DNA isolation from infected plant samples and the real-time PCR assay. The assay will be applied to our working pathosystems in short term.

During the grant period, two graduate students were supported as GRAs. One of them graduated in Summer and is admitted to a Ph.D program at University of Iowa. The other graduate student continues to work on the project and also develops new project based on current findings.

**Financial Report:**

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| --- | --- | --- | --- | --- |
| **FRP00100 - Grant Budget Report LTD** | **Wichita State University** | |  | **Database: ODSP** |
| **Grant: R51177 - Quantification of Disease Severity of Charcoal Rot in Plant Hosts by qPCR** | | | | |
| **PI: Shuai, Bin** | **Fund: R51177** | |  | **8/3/2015 9:25:25 AM** |
| **Agency: Kansas Soybean Commission** | **7/1/2014 - 6/30/2015** | |  | **Run by: a575c695** |
| **Category** | **Budget** | **LTD Expenses** | **Commitments** | **Available Budget** |
| [Graduate Student Salaries](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Payroll+Expense+Summary+LTD&Fund=R51177&Category=20&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$10,800.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Budget+Detail+LTD&Fund=R51177&Category=20&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$10,800.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Expense+Detail+LTD&Fund=R51177&Category=20&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Commitments+Detail+LTD&Fund=R51177&Xwalk=NSF&Dept=700313&Grant_Code=R51177&Category=20&rs%3aParameterLanguage=) | $0.00 |
| [Fringe Benefits](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Payroll+Expense+Summary+LTD&Fund=R51177&Category=80&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$584.07](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Budget+Detail+LTD&Fund=R51177&Category=80&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$584.07](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Expense+Detail+LTD&Fund=R51177&Category=80&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Commitments+Detail+LTD&Fund=R51177&Xwalk=NSF&Dept=700313&Grant_Code=R51177&Category=80&rs%3aParameterLanguage=) | $0.00 |
| [Domestic Travel](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Payroll+Expense+Summary+LTD&Fund=R51177&Category=150&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Budget+Detail+LTD&Fund=R51177&Category=150&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Expense+Detail+LTD&Fund=R51177&Category=150&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Commitments+Detail+LTD&Fund=R51177&Xwalk=NSF&Dept=700313&Grant_Code=R51177&Category=150&rs%3aParameterLanguage=) | $0.00 |
| [Supplies](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Payroll+Expense+Summary+LTD&Fund=R51177&Category=170&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$13,465.93](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Budget+Detail+LTD&Fund=R51177&Category=170&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$10,714.94](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Expense+Detail+LTD&Fund=R51177&Category=170&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Commitments+Detail+LTD&Fund=R51177&Xwalk=NSF&Dept=700313&Grant_Code=R51177&Category=170&rs%3aParameterLanguage=) | $2,750.99 |
| [Equipment/Capital](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Payroll+Expense+Summary+LTD&Fund=R51177&Category=200&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Budget+Detail+LTD&Fund=R51177&Category=200&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$2,802.50](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Expense+Detail+LTD&Fund=R51177&Category=200&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Commitments+Detail+LTD&Fund=R51177&Xwalk=NSF&Dept=700313&Grant_Code=R51177&Category=200&rs%3aParameterLanguage=) | ($2,802.50) |
| [Other Direct Costs](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Payroll+Expense+Summary+LTD&Fund=R51177&Category=220&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$150.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Budget+Detail+LTD&Fund=R51177&Category=220&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$93.59](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Expense+Detail+LTD&Fund=R51177&Category=220&Xwalk=NSF&Dept=700313&Grant_Code=R51177&rs%3aParameterLanguage=) | [$0.00](https://reporting.wichita.edu/ReportServer?%2fResearch+-+Grant+Reporting%2fFRP00100+-+Grant+Commitments+Detail+LTD&Fund=R51177&Xwalk=NSF&Dept=700313&Grant_Code=R51177&Category=220&rs%3aParameterLanguage=) | $56.41 |
| Total Direct Costs | $25,000.00 | $24,995.10 | $0.00 | $4.90 |
| Total | $25,000.00 | $24,995.10 | $0.00 | $4.90 |