

Idaho Incubation Fund Program

Progress Report Form

Proposal No. IF16-014
Name: (Amy) Hui-Mei Lin
Name of Institution: University of Idaho
Project Title: All Natural Low GI Potato
Reporting Period: July 1, 2015 - Dec 31, 2015

Information to be reported in your progress report is as follows (attach additional information as needed):

- Summary of project accomplishments for the period just completed and plans for the coming reporting period:

The goal for the first year of funding was to establish a database of Idaho potato cultivars and modify potato tubers using natural approaches to modulate glycemic response (The proposed timeline is attached at the end of this report). In the first 3 months (October-December, 2015), we have examined five major and well developed Idaho cultivars and applied some techniques to modify the microstructure of those potato tubers. In the next progress report, we plan to complete the examination of new lines of potatoes developed in Idaho. For the modification, we plan to optimize the technique for modifying microstructure and introduce a second technique to incorporate guest molecules (natural ingredients) into potato. In addition, we plan on reporting the change in glycemic response resulting from the combined techniques.

- Summary of budget expenditures for the period just completed (**include project burn rate**):

	<i>Salary & fringe</i>	<i>Graduate student fees</i>	<i>Travel</i>	<i>Equipment</i>	<i>Consultant</i>	<i>Operation and suppliers</i>	<i>Total</i>
Budgeted	21,868	8,200	4,932	1000	19,000	6,700	61,700
Balance	13,012	4,089	2,168	1000	19,000	3,687	42,976

- Numbers of faculty and student participation resulting from the funding, including internships:

One graduate student has been supported by the funding to work on this project.

- List patents, copyrights, plant variety protection certificates received or pending:
N/A

5. List technology licenses signed and start-up businesses created:
N/A
6. Status of private/industry partnerships (include enough information to judge level of engagement):
The potato industry has shown their excitement about this project. The PI met some current and potential partners in Minneapolis (MN), Caldwell (ID) and Portland (OR) in October 2015 to engage industry partners. Companies such as Simplot and McCain are interested in knowing our progress of this project.
7. Any other pertinent information that will indicate to the council that the project is meeting satisfactory progress.

Though this project “all natural low GI potato” was not funded until late September 2015, it has gotten a lot of attention from the potato industry and researchers in this area. Thus, we have received strong support from researchers to provide us necessary research materials. Industry partners also shared a wealth of experience and ideas of this project. Students have screened some major cultivars developed in Idaho, and will select the second batch of potatoes to broaden the screening in Feb, 2016.

Appendix: The proposed timelines:

The project timelines includes screen potato varieties, develop the proposed technology (modification), produce powder form product, assess nutritional and technical quality, and demonstrate the application. During Year 1, we expect to complete the variety selection and produce preliminary data of the proposed technology. It will take additional two years, working with the industry collaborators to bring the new products to market.

