BeanCAP - Education Early Recruitment Efforts



Annual Meeting
San Diego – January 2011



BeanCAP Mission Statements

The BeanCAP will broaden the plant breeding applicant pool by initiating a training program focusing on early career recruitment and practical breeding/genomics training.

Objective 5: Initiate a modern plant breeding training program that focuses on early career recruitment and provides practical training that illustrates how the integration of genomic and phenotypic data can be used to improve nutritional traits in plants.

BeanCAP Education Team

 NDSU: Juan M. Osorno, Phil McClean, Julie Garden-Robinson, Stacy Halvorson, Christina Johnson, Shane Reetz.

CSU: Mark Brick

MSU: Jim Kelly

UNL: Carlos Urrea





2010 Activities



1. Hands-on experiences (Internships):

- The most successful activity
 - Undergraduate (full-year and summer)
 - High School (summer)

2. High School Visits:

- Visits and presentations in local/regional high schools at each location per year
- Reverse visits from high schools to breeding programs at each university
- Working well at NE and CO
- More challenging in MI and ND



2010 Activities



3. Plant Breeding Educational Materials:

- Integration with the Extension component to develop videos and animations.
- Flyers, brochures, banners, posters, etc.
- Leveraged in part by using some of the materials previously developed by other projects.
- Available at website: <u>www.beancap.org</u>
- Facebook site: "Plant Breeding Fan Group"

2010 Activities

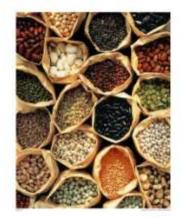
- 4. Recruiting Efforts and Creating Awareness at National/Regional meetings:
 - MANRRS national meeting
 - PBCC/NAPB
 - ASA-CSSA-SSSA
 - Graduate School fair at NDSU





2010 Impact

- A total of 18 students (high school and undergraduate) across the four locations participated in the internships.
- ~200 high school students were exposed to plant breeding (visits).
- Education materials are available for public use.
- Additional outreach at website, Facebook, meetings, conferences, and other recruiting activities.



100% recruitment success would be unrealistic, but...

- There is a lot if indirect impact:
 - We are informing the public and creating awareness
 - Young students will become voters in the future
 - They will be better informed
 - Some of them will be leaders making final decisions
 - Will create more consciousness about the food chain



Challenges Found So Far

- Lack of interest in some high schools and/or regions (MI and ND):
 - Teachers are already busy with extensive academic curriculums
 - No rewards/incentives for teachers
 - Recruitment is mainly on a personal basis
 - Successful only when at least one school teacher is highly interested
- Finding the right spaces and meetings to share information
 - Close collaboration with 4-H in ND
 - Higher interest from rural schools with ag programs
- Uniform training across all four institutions







Dr. Carlos Urrea explains the day's assignments to his summer staff of local students. From left to right are Doug Valvade, a treshman at Western Habraska Community College: Scout Wilson, a high school senior; Micole Schmittger, majoring in pre-med at WNCC; Urrea: Misty Griffitta, a biology major at WNCC; and Fred Ortiz, regular summer employee in Urrea's projects.

Summer is the best time to learn

by SANDRA HANSEN

What do you do on summer vaco tion from school? Of course, you find man year at WNCC last week, and

This sommer, his regular sommer

work, injecting green house plants with a variety of discuses and then assistant, Fred Ortiz, was folined by testing them for results. Doog Valade, who entered his fresh-

Urrea's projecta include 41 pinto lines and 50 Great Northern lines. a summer into where you can study. Scool Wilson, a high school senior. They are being studied for factorial

Summer 2010

"Participating in this internship has been a pleasure, and I have learned a great deal about the processes and procedures involved in breeding. Thank you again for admitting me for this experience."

Mariah Smith (Moorhead High – 2010)



Spring 2011

Hello Mr. Osorno,

Hopefully you had a wonderful holiday. I was just wondering when I can start my internship with you which you offered to me in the middle of Fall semester. The internship is for Dry Bean Plant Breeding.

Thanks,

Nicole Dallman

Dr. Osorno,

I would like to remind you that I am still very interested in the position. I would be more than happy to meet with you and discuss the opportunity, and learn some more of the details. Please let me know what would work best for you. Thanks.

Sincerely, Bradley Bisek

Questions/Feedback

