***Phaseolu*s Crop Germplasm Committee Meeting**

November 4, 2015, Ontario, Canada

**Attendees:**

* Balasubramanian, Parthriba (parthibab@agr.gc.ca) - Agriculture & Agri-Food Canda
* Beaver, Jim (james.beaver@upr.edu) - University of Puerto Rico, PR
* Bett, Kristin (k.bett@usask.ca) - University of Saskatchewan, Canada
* Campbell, J.J. (jdjax@iastate.edu) - Iowa State University
* Cannon, Ethy (etcannon@iastate.edu) - Iowa State University
* Cichy, Karen (karen.cichy@ars.usda.gov) - USDA-ARS, East Lansing, MI
* Da Silva, Ramos Martins Vanusa (vanusasr@hotmail.com) -
* De Uma Castro, Sandra Aparecida (sandralina.bio@hotmail.com) -
* Figueiredo, Bacamallo Giselly (giselly.fl@gmail.com) -
* Fourie, Deidre (fouried@arc.agric.za) - ARC-Crops Institute, South Africa
* Goncalves, Vidigal Maria Celeste (mcgvidigal@uem.br) - Univ. Estadual de Maringá
* Grusak, Michael (mgrusak@bcm.edu) - USDA-ARS, Houston, TX
* Heitholt, Jim (Jim.Heitholt@uwyo.edu) - University of Wyoming
* Hossain, Khwaja (k.hossain@mayvillestate.edu) - Mayville State University, ND
* Ibarra-Perez, Franciso J. (fcojip@hotmail.com) - CE Cotaxtla, INIAP, Mexico
* Hart, John (john.hart@ars.usda.gov) – USDA-ARS, Mayaguez, PR
* Kalavacharla, Kal (vkalvacharla@desu.edu) - Delaware State University
* Kelly, Jim (kellyj@msu.edu) - Michigan State University, MI
* Kisha, Ted (tkisha@wsu.edu; theodore.kisha@ars.usda.gov) - USDA-ARS, Pullman, WA
* McClean, Phil (Phillip.mcclean@ndsu.edu) - North Dakota State University, ND
* Miklas, Phil (phil.miklas@ars.usda.gov) - USDA-ARS, Prosser, WA
* Moda-Cirino, Vania (ramoci@iapar.br) - IAPAR, Brazil
* Navarrete, Rosa Maya (rosa\_navarrete@hotmail.com) - Col. Juventino Rosas, Mexico
* Nienhuis, Jim (nienhuis@wisc.edu) – University of Wisconsin
* Osorno, Juan (juan.osorno@ndsu.edu) - North Dakota State University, ND
* Pasche, Julie (julie.pasche@ndsu.edu) - North Dakota State University, ND
* Pauls, Peter (ppauls@uoguelph.ca) - University of Guelph, Canada
* Porch, Tim (timothy.porch@ars.usda.gov) - USDA-ARS, Mayaguez, PR
* Raatz, Bodo (b.raatz@cgiar.org) - CIAT, Colombia
* Rietman, Hendrik (H.Rietman@stormseeds.com) -
* Rosas, Juan Carlos (jcrosas@zamorano.edu) - EAP/Zamorano, Honduras
* Rueda, Janice (rueda@wayne.edu) - Wayne State University/Archer Daniels Midland, IL
* Scholz, Todd (tscholz@usapulses.org) - USA Pulses
* Shree Singh (singh@kimberly.uidaho.edu) - University of Idaho, ID
* Souter, Jodi (Jodi.souter@usak.ca) - University of Saskatchewan, Canada
* Souza, Maria (mariamartiniano@hotmail.com) -
* Souza, Thiago (thiago.souza@embrapa.br) - Embrapa Rice and Beans, Brazil
* Steadman, Jim (jsteadman1@unl.edu) - University of Nebraska, NE
* Urrea, Carlos (currea2@unl.edu) - University of Nebraska, NE
* Valar, Gurusamy (valar.gurusamy@usask.ca) - University of Saskatchewan, Canada
* Varner, Greg (varnerbean@hotmail.com) - MI Dry Bean Res. Board
* Vidigal, Filho Pedro S. (vidigalfilhop@gmail.com) -
* Wiesinger, Jason (wiesinge@msu.edu) -

Tim Porch called the meeting to order at 9:40 A.M.

1. **Approval of Minutes**

Last meeting minutes at the PREC-Scottsbluff, NE distributed by Tim Porch were approved.

**3)** **Update of PCGC funded projects**

Ted Kisha reported about the proposal entitled: ***“Evaluation of the nutritional components of the USDA nuña bean collection in comparison with selected common dry beans from diverse market classes and centers of diversity (funded in 2015).”*** Of the 90 nuñas in the collection, 35 were studied. Protein content was about 16% and a 10-fold difference in antioxidant capacity was found. Nuñas have low stachyose and raffinose content compare to the dry beans. Ted is thinking of naming the nuñas ‘power popper’ for the U.S. Juan Osorno pointed out that the nuña collection is photoperiod sensitive. Jim Nienhuis mentioned that he has photoperiod insensitive nuñas. It was mentioned that Mark Brick released two nuñas as germplasm. Shree Singh asked Nienhuis if he was able to recover the seed size when he crossed to nuñas. Nienhuis indicated that larger dry beans were used in his crosses.

Jim Nienhuis did a presentation during the BIC meeting on ***‘Understanding and improving flavor: screening the USDA for pod sugar and flavor compounds in snap and dry bean accessions (a proposal funded in 2014)’***. Phenotypic data on the accessions evaluated will be entered into the GRIN system after an additional year of data is collected. Jim has not evaluated how Wisconsin consumers will react to high/low sugar content in snap beans.

**4) Status of the *Phaseolus* germplam collection**

Ted Kisha, curator for the *Phaseolus* germplam collection, reported on activities. He is dealing challenges with generating seed from photoperiod sensitive germplasm due to the latitude of the Pullman location. He is giving interest in seed viability. Ted is regenerating 400-500 accessions per year. He is suggesting in seed increases if the bean collection is requested. Ted is taking care of some issues related to names and growth habits. Ted asked if there are some problems with the collection, visit with him.

**5) Plans for the vulnerability crop report**

An update of the *Phaseolus vulgaris* crop vulnerability report was discussed. Paul Gepts is leading the writing of the update of this report and assessing gaps in the collection. Climate change, nutrition, accessibility to the collection, missing germplasm, and pathogenicity incidence should be considered in the report.

**6) New Business**

1. **Change of Committee Officers, Membership**

Shree Singh is stepping down as a committee. We thank him for his service.

1. **Exploration Proposals**

Ted Kisha and Ashley Egan collected *P. polystachios* (related to lima beans) populations from southern Ohio. Seven (2 from Missouri, 2 from Indiana, and 1 from West Virginia) of the 10 *P. polystachios* populations were affected by weevils. Information was entered into the GRIN system.

New exploration proposals (FY16) will be funded next summer.

1. **GRIN Global**

A conference call was held with Gary Kinard, NPGS, who recognized Phillip Griffiths’ long term commitment as chair of the PCGC.

Gary Kinard indicated that GRIN Global will be released by NPGS shortly. There will be a virtual meeting in December on how to request material from the web site and how to navigate the web site.

The National Plant Germplasm System, PCGC web page will be updated.

**d. Other**

Juan Osorno asked if the SNP data could be available in the GRIN database. Phil McClean mentioned that the file is huge. Ted Kisha is willing to add more descriptors like origin if needed. Tim Porch mentioned that if genotypic data is added, all phenotypic data could be stored as well. Both genotypic and phenotypical data could be linked. Tim Porch will investigate whre the phenotypic data could be stored.

Juan Osorno asked if the USDA was interested in maintaining the ADP and MDP panels. Ted mentioned that one of the problems is the total amount of seed. Phil Miklas recommended to keep a sample of each entry and wondering on how to avoid duplications. Karen Cichy recommended to keep separate the lines if they segregated.

**e. Next Meeting:** The next meeting will be in spring 2016. Ted Kisha proposed to host the meeting at the Western Regional Plant Introduction System in Pullman, WA.

**7)** The meeting was adjourned at 10:40 A.M.

Respectfully Submitted:

Acting Secretary

Carlos A. Urrea