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

Kellogg Center, Michigan State University, East Lansing, MI

November 1, 2017

**Participants:**

* Beaver, James (james.beaver@upr.edu) – University of Puerto Rico
* Diapari, Marwan (marwandiapari@gmail,com) – Agriculture and Agri-Food Canada
* Gepts, Paul ([plgepts@ucdavis.edu](mailto:plgepts@ucdavis.edu)) – University of California Davis
* Goncalves-Vidigal, Maria celeste ([mcgvidigal@uem.br](mailto:mcgvidigal@uem.br)) – Univ. Estadual de Maringa, Parana
* Kelly, Jim ([kellyj@msu.edu](mailto:kellyj@msu.edu)) – Michigan State University
* Kisha, Ted ([theodore.kisha@ars.usda.gov](mailto:theodore.kisha@ars.usda.gov)) – Western Region Plant Introduction Station, Pullman, WA
* Miklas, Phil ([phil.miklas@ars.usda.gov](mailto:phil.miklas@ars.usda.gov)) – USDA-ARS, Prosser, WA
* Marsolais, Frédéric ([Frederic.Marsolais@agr.gc.ca](mailto:Frederic.Marsolais@agr.gc.ca)) – Agriculture and Agri-Food Canada
* Osorno, Juan ([juan.osorno@ndsu.edu](mailto:juan.osorno@ndsu.edu) ) – North Dakota State University
* Pastor-Corrales, Talo ([talo.pastor-corrales@ars.usda.gov](mailto:talo.pastor-corrales@ars.usda.gov)) – USDA-ARS, Beltsville, MD
* Raatz, Bodo ([B.Raatz@cgiar.org](mailto:B.Raatz@cgiar.org)) – CIAT
* Souza, Thiago ([thiago.souza@embrapa.br](mailto:thiago.souza@embrapa.br)) – Embrapa Rice and Beans
* Urrea, Carlos ([currea2@unl.edu](mailto:currea2@unl.edu)) – University of Nebraska
* Vidigal-Filho, Pedro Soares ([psvfilho@uem.b](mailto:psvfilho@uem.b)) – Univ. Estadual de Maringa, Parana

Paul Gepts called the meeting to order at 10:00 A.M.

**a)** **Approval of Minutes**

Minutes from the last meeting, held at the Washington State University, Pullman, Washington on July 27, 2016, were distributed, reviewed, and approved. Ted Kisha motioned for approval and Phil Miklas seconded it.

**b) Update of the Committee List**

The committee list was updated on October 18, 2017. It was suggested to approach the Dry Bean Private Industry to be part of the *Phaseolus* Crop Germplasm Committee.

Carlos Urrea will approach the Dry Bean Industry through e-mail.

**c) Plans for the Vulnerability Crop Report**

Paul Gepts, leader of the *Phaseolus vulgaris* Crop Vulnerability Report, thanked the people that have contributed. Last report was written 20-30 years ago. At the end of the report, we will make recommendations to the Secretary of Agriculture. We should know what we want from the collection and how the collection should function, according to Paul Gepts.

**Recommendations:**

1) Missing diversity. The collection should be increased.

2) More technical help. Ted Kisha mentioned that financial resources are a limiting factor, staffing and an adequate budget are needed.

3) Better GRIN system. There is a lack of descriptors in the system. It will be difficult to merge with other databases.

4) Collection needs to be genotyped. Paul Gepts suggested genotyping the entire collection. Phil Miklas raised the question of how the collection should be genotyped since Ted Kisha grows 70 plants per accession. Perhaps, pool 10 plants?

5) Diversity panels should be included in the collection. Jim Kelly seconded the idea. Phil Miklas mentioned that since CIAT’s was included, duplications should be eliminated. According to Thiago Silva, the Brazilian Core Collection could be available in the near future. The Brazilian government is still working on the agreement.

**d) Other Issues**

What percentage of the collection should be regenerated? Ted Kisha regenerated 424 accessions in 2017 (3 seeds/pot x 17 pots). Photoperiod is an issue, a lot of the collection is unavailable. Paul Gepts mentioned that only lights and irrigation are needed. Jim Beaver mentioned that a Puerto Rico location could be an option.

Ted Kisha reported about the 120 heirloom bean collection. There is a lot of extractable phenolic variation even within the same color types. Antioxidant activity will target cardiovascular disease. Correlation with iron availability could be part of a nutritional program as suggested by Bodo Raatz. Juan Osorno mentioned that GWAS can be used. Jim Kelly mentioned that some black checks should be included if antioxidants are considered.

Juan Osorno asked about traits that are available in *Phaseolus dumosus*.

Phil Miklas asked if CIAT’s Core Collection was genotyped. Bodo Rataz said it is not, it is expensive.

**e) Next Meeting:** The next meeting will be in Sacramento in July 2018.

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

Respectfully Submitted:

Acting Secretary

Carlos A. Urrea