



Solanaceae Coordinated Agricultural Project



SolCAP Solanaceae Coordinated Agricultural Project 5 th Annual Meeting		
January 13, 2013	8:00AM – 10AM Open Session	Town and Country Resort, San Diego, CA
Meeting	5 th Annual SolCAP Meeting	
Director	David Douches, MSU	
Executive Committee	David Francis, OSU	
	Walter De Jong, Cornell Univ.	
	Allen Van Deynze, UC-Davis	
	Lukas Mueller, Cornell	
Attendees	Sonny Ramaswamy, NIFA-USDA	
	Ed Kaleikau, NIFA-USDA	
	Glenn Bryan, SCRI Scotland	
	David B. Neale, UC Davis	
	Craig Wood, eXtension	
	Kelly Zarka, MSU	
	Ian Puddephat, Corp R&D Senior Director Ag Sci. Pepsico	
	Michael Coe, Cedar Lake Research Group, SolCAP Assessment	
	Mary Peet, USDA, NIFA, Division Director, Plant products	
	James Giovannoni, Boyce Thompson Institute for Plant Research	
	Jeanne Jacobs, The New Zealand Institute for Plant and Food Res.	
	Joyce Van Eck, BTI Cornell University	
	Aliya Momotaz, Frito Lay	
	John McQueen, Oregon State Univ.	
	Sung Chur- Sim, Ohio State Univ.	
	Candice Hirsch, Michigan State Univ.	
	Cory Hirsch, Michigan State Univ.	
	Shawn Yarnes, Ohio State Univ.	
	Barbara Liedl, West Virginia State Univ.	
	David Kendra, Pepsico	
	Cindy Lawley, Illumina	
	Scott Taylor, Illumina	
	Liang-Shiou Lin, USDA NIFA	

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AGENDA

8:00-8:05am	Welcome and Introduction
8:05-8:20am	SolCAP overview <i>David Douches, Michigan State University</i>
8:20-8:40am	The SolCAP Potato Story <i>David Douches, Michigan State University</i>
8:40-9:00am	The SolCAP Tomato Story <i>David Francis, Ohio State University</i>
9:00-9:15am	Outreach, Education and Extension <i>Allen Van Deynze, U.C. Davis / Shawn Yarnes, Ohio State University</i>
9:15-9:30am	Evaluation of extension activities: <i>Michael Coe, Cedar Lake Research Group</i>
9:30-10:15am	USDA Leadership/Future Outlooks/Open discussion <i>USDA Leadership/David Douches, Michigan State University</i>
10:15-10:30am	Break
10:30-11:15am	Advisory Board meeting: Closed session
11:15-11:50am	Discussion: Closed session Comments from Advisory Board with Executive Committee
11:50am-Noon	Closing Comments



Solanaceae Coordinated Agricultural Project



SolCAP Solanaceae Coordinated Agricultural Advisory Board Meeting		
January 13, 2013	10:15AM – 11AM Closed Door	Town and Country Resort, San Diego, CA
Meeting	4 th Annual SolCAP Advisory Board Meeting	
Leader	Dr. Glenn Bryan	
Attendees	Glenn Bryan, The James Hutton Institute, Scotland	
	David B. Neale, UC Davis	
	Michael Coe, Cedar Lake Research Group, SolCAP Assessment	
	James Giovannoni, Boyce Thompson Institute for Plant Research	
	Craig Wood, eXtension	
	David Kendra, Pepsico	
	Aliya Momotau, Frito-Lay, Rhinelander, WI	
	Ian Puddephat, R&D Senior Director, Ag Sci, Pepsico	
Not Able to Attend	Caius Rommens, Simplot Company	
	Charles Rivara, California Tomato Research Institute	
	Rene Klein Lankhorst, EuSOL	
	Deb Lewis, Ohio State University Extension	
SolCAP Advisory Board Discussion with SolCAP Executive Committee and Participants		
11AM (Open Session)	Presenter: Glenn Bryan	
Attendees	Advisory Board (listed above)	
	David Douches, MSU	
	Allen Van Deynze, UC Davis	
	David Francis, Ohio State Univ.	
	Lukas Mueller, Cornell Univ.	
	Walter De Jong, Cornell Univ.	
	Shawn Yarnes, UC Davis/Ohio State Univ.	
	Joyce Van Eck, BTI Cornell University	
	John McQueen, Oregon State Univ.	
	Kelly Zarka, MSU	

SolCAP Advisory Board Discussion with SolCAP Executive Committee and Participants

Discussion A (Entire SolCAP Project related)

The Advisory Board noted that the SolCAP Team has met and exceeded their objectives in many ways. A tremendous amount of progress has been achieved on all fronts. The SolCAP project has developed many tools and resources for the community. The outputs from SolCAP are dramatic and are having extensive global impact. It was noted that SolCAP research has been mentioned at various meetings and conferences all over the world. “SolCAP has dramatically changed the potato and tomato research communities”.

Conclusions

The group agreed that the SolCAP Project is going extremely well and the data is of excellent quality. The board does not have any concerns about the science and they were extremely grateful for the work of the SolCAP community.

Discussion B (No Cost Extension Year)

There was a discussion regarding clarification of the no cost extension year.

SolCAP’s financial funding ended 9/1/2012, however, the project will continue for an additional year without additional funds. SolCAP is able to do this because of 4 years of careful economical spending of our allocated funds. Additionally, each year, “future interest funds” were set aside. Most of these funds were budgeted for and released during our 4th year. A considerable amount of these funds were used for additional community genotyping. An extensive amount of analysis is in progress with all of the data we have collected. Most of the remaining funds were budgeted for salaries to cover analysis costs.

Although there are no available funds for new research, the SolCAP executive committee welcomed the advisory board to share thoughts on future research interests.

Conclusions

The next steps for bioinformatics research in potato and tomato include: genotyping by sequencing and developing a denser SNP array. Illumina has extended the availability of the current chips through 2013. Additionally Illumina offers add on features to the chips. For example, a researcher can request the potato SNP chip and add more SNP’s to their custom chip.

The key for SolCAP in the final days is to continue to position the tomato and potato communities so that the breeders are enabled to utilize the latest technologies.

SolCAP directors mentioned that we currently have several projects testing genotyping by sequencing.

Discussion C (Research potato related)

There was a discussion regarding the data being analyzed with potato and there is a concern that there might be a bias in the SNP data set for cultivated potato vs wild potatoes. It was suggested that some RNA seq analysis research could be done if there are any more resources available.

Discussion D (eXtension – Plant Breeding Genomics CoP)

A key recommendation from the advisory board is directed toward the USDA to make sure that funding continues for the Plant Breeding Genomics CoP which has established itself as a viable growing resource. The success of the numerous webinars, content, assessment/evaluation resources is necessary for the success of the plant breeding community to continue to utilize the latest technologies.

Discussion E (SGN)

Sustainability of Sol Genomics Network (SGN) is a concern. A general problem with breeder toolboxes comes down to usability. Being able to get the data out of the database in a usable form for the general breeder is the key.