

ROSEXEC MINUTES

OCTOBER 31, 2016- HAPPY HALLOWEEN!

TELECONFERENCE, 9:00-10:30 AM PDT

Meeting called to order by C. Peace, 9:03 AM PDT

AGENDA

ATTENDEES:

First Name	Last Name	E-mail	Affiliation
Cameron	Peace	cpeace@wsu.edu	Washington State University
Mercy	Olmstead	molmstead@calstrawberry.org	California Strawberry Commission
Ksenija	Gasic	kgasic@clermson.edu	Clemson University
Dorrie	Main	dorrie@wsu.edu	Washington State University
Steve	Knapp	sjknapp@ucdavis.edu	UC Davis
Sook	Jung	sook_jung@wsu.edu	Washington State University
Amy	Iezzoni	iezzoni@msu.edu	Michigan State University
Michael	Dossett	Michael.Dossett@AGR.GC.CA	BC Blueberry Growers
Brianna	Gross	blgross@me.com	University of Minnesota - Duluth
Jim	McFerson	Jim.mcferson@wsu.edu	Washington State University
Eric	Van de Weg	eric.vandewegwur.nl	Wageningen University
Chunxian	Chen	chunxian.chen@ars.usda.gov	USDA-ARS, Byron
Jill	Bushakra	jill.m.bushakra@gmail.com	USDA-ARS, NCGR, Corvallis
Gina	Fernandez	Gina_Fernandez@ncsu.edu	North Carolina State University

WELCOME

- Cameron Peace (Chair), Ksenija Gasic (Vice Chair), Mercy Olmstead (Secretary)
- Steve Knapp, Ksenija Gasic, Dorrie Main, Cameron Peace, Amy Iezzoni, Sook Jung, Michael Dossett, Eric van de Weg, Jim McFerson, Mercy Olmstead, Gina Fernandez, Chunxian Chen, Jill Bushakra, Brianna Gross in attendance (14).
- Kenong Xu, Vance Whitaker, Bob Curtis, Gayle Volk, David Chagne couldn't come.
 - Need to replace Richard Bell- he still has one year left.
 - With another pear person? K. Evans, R. Bell, others?

- Adoption of minutes from August 2016 teleconference meeting – will be approved over email.
 - Look for email.

ROSEXEC MEMBERSHIP

Expand into Asia and Africa? Updates from membership voting –

- Several choices
 - Leave as is
 - Increase international liaisons with one dedicated to Asia and one dedicated to Africa
 - Increase international liaisons with one dedicated to either Asia or Africa
- The results were to leave as is, but made sure to target nominations from Africa and Asia.
- Please vote! **Voting is due on November 4th.**

GDR ADVISORY BOARD

See detailed report posted on website –

HIGHLIGHTS

- June, July, August 2016
- Lots of genomic data added since Q7; Loaded SNP data to genome browser JBrowse as tracks
- Rubus RefTrans 1.0 available
- Finished converting GDR to Tripal 2 and Drupal 7
 - Redesigned some of the search pages
 - Added germplasm image search functionality
 - Continuation of adding to the Breeding Information Management System (BIMS)
- Presentations:
 - GDR – ASHS, 4th international Strawberry Symposium
 - GDR USDA Specialty Crop Research Program Advisory Comm. In August
 - Developed short A-V tutorials (12) for how to use GDR
- Did not align Rosaceae NCBI genes, but will do it this quarter.

TO DO:

- Annotate Li et al., Golden Delicious genome sequence and put into GDR
- Add RefTrans for *P. persica*
- Sook has made significant progress on curating genetic data

- Have updated the RosBREED1 genotype and phenotype data from TX peach breeding and NY apple breeding programs
- Will release the Mainlab Tripal Extension Modules to the community – a significant output from this grant to enhance community resources
- FieldBook App webinar on November 29th, 10 AM PST/1 PM EST
- Organizing GDR training workshop for PAG – cover using training, about specific uses of GDR.

How to cite GDR – please put website address and the citation for GDR. Jung et al., 2014. See: https://www.rosaceae.org/gdr_faq#5.

GDR will have a new Community Project Page – have implemented in CottonGen, where the community can get updates on projects that the community might be interested in.

COORDINATION AND UPDATES

INDUSTRY REPS

- Stakeholder listening program for USDA ARS (plant genetic resources, breeding, etc.)
 - Summary of what has been going on, and then the next 5 years for the national program
 - No big changes (across all crops), dominated by cotton, corn, soybean, sorghum, wheat
 - Bad news is that germplasm resource unit budgets are taken up by fixed costs (salaries), no increase in diversity and collection trips.
 - No money for renovation
 - UC-Davis *Prunus* germplasm is being renovated and is the one bright spot.
 - Comprehensive phenotyping of the germplasm collections is very important!
- Two USDA-ARS breeding programs with empty positions –
 - Richard Bell, Ralph Scorza
 - Will likely not be cultivar development, but into genetics/genomics positions.
- Crop vulnerability statements – Malus CGC is a great example! All CGC's should update their crop vulnerability statements
 - *Rubus* will be done by the end of the year, and is being modeled after Malus.
 - Will be a published paper
 - Will probably do the same route in *Prunus* as well.

COMPETITIVE GRANT PROJECT REPORTS

- SCRI funded project on apple rootstocks – Lailaing Cheng at Cornell is heading that up.
- Meeting with the **Agriculture and Food ...** Will be a large project funding body – have over \$200 million in funding availability.

- Phytobiome meeting – in conjunction with Am. Phytopathological Society in Florida, and Phenomics at Purdue University
- 1:1 match – federal and private funding
- RosBREED update:
 - Entered year 3 – disease phenotyping is done, and so will integrate genetics to find major disease resistance QTLs
 - GWS working well in strawberry (V. Whitaker, lead)
 - International Partners Meeting for RosBREED – Friday before PAG starts
 - Happy to have additional colleagues
 - Whole genome scan, moving forward with sequencing across the world for Rosaceae crops
- Armillaria project waiting for funding.
 - Progress has been made with private funding at Clemson, funding will end in December, but will feed into USDA-SCRI project.
- *Potential Project:* Gina Fernandez, Chad Finn, Bernadine Strik, Margaret Worthington (UArk), Hamid Ashrafi
 - Raspberry and blueberry – to develop CAP level project on climate-resistant crops – from breeding and production perspective
 - Submitting pre-proposal to SCRI.
- *Potential Project:* Ksenija Gasic, tying in consumer and postharvest stages for GA, SC, and FL.
 - Fresh market industry
 - SCRI Standard Research & Extension Project proposal, will use genetic resources from RosBREED, working with C. Crisosto (UC-Davis).
- *Potential Project:* Plant Genome Research Project Submission – no closing date
 - Transformation of Peach – challenges and limitations (C. Saski et al.)
 - Website for submission?

INTERNATIONAL PROJECT COLLABORATIONS

Lots of opportunities with China – several projects going on in Rosaceae crops.

RESEARCH FIELDS AND TECHNOLOGY UPDATES

WHOLE GENOME SEQUENCES

- Asian pear genome from the Japanese group on their own website
 - One may be available to GDR, but no response from the other group

ENABLING NEW TECHNOLOGIES IN GENOMICS/GENETICS

- Any gene editing being done? *None*.

WHITE PAPER UPDATE

- Integrate crop vulnerability statements into it
 - Perhaps break up the topics into smaller papers if someone can guest edit a journal issue
- Identify the areas and then assign over email – with RosEXEC members and the Rosaceae Community

PERSONNEL CHANGES

- Mary Ann Maquilan will graduate with Ph.D. from University of Florida in Spring 2017 – looking for a Post-doc position
- Paul Sandefur – accepted a position at Fall Creek as a blueberry breeder, will start December 1st.
- Sweet Cherry Breeding Position will be filled in Spring 2017
- WSU – Endowed Chair in Tree Fruit Postharvest Position, Tree Fruit Extension Specialist Positions open for any qualified students.

RECENT SCIENTIFIC MEETINGS – COMMENTS

- 11th International Symposium on Integrating Canopy, Rootstock and Environmental Physiology in Orchard Systems: 28 August – 2 September 2016, at Bologna, Italy
- 1st ISHS International Apple Symposium: 10-16 October 2016, at Yangling, China
 - Well attended by geneticists – over 900 people
- 3rd International Horticulture Research Conference: 16–19 October 2016, at Nanjing, China
 - Keynote speakers in polyploidy, epigenetics, gene editing, etc. – good conference
- Apple Crop Germplasm Committee Meeting: 21 September 2016, teleconference at 1-4 pm EST
- Small Fruits CGC Meeting and NCCC 212 Small Fruit and Viticulture Research Business Meeting: 24–26 October 2016, at Virginia Beach, VA

UPCOMING MEETINGS

- Plant & Animal Genome XXV: 14–18 January 2017, at San Diego, CA, USA
- 4th Symposium on Molecular Markers in Horticulture: 7-10 Mar 2017, Napier, NZ
- 8th International Cherry Symposium: 5-9 June 2017, at Yamagata City, Japan
- 4th International Horticulture Research Conference: 16–20 July (tentative) 2017, at East Malling, United Kingdom
- NAPB/PBCC Annual Meetings: 7–10 August 2017, at Davis, CA

OTHER ANNOUNCEMENTS

NEXT ROSEXEC MEETING

- PAG (San Diego) 15 January, 8-10 am (will be followed by RosIGI meeting)
 - Will include setting of times for 2017 quarterly teleconferences
 - Other desired agenda items?

Meeting adjourned at: 10:31 AM PDT