



Pig Genome Update

No. 106 January 1, 2011

Happy Holidays and New Year to you, your families and colleagues!!

PAG 2011 Swine Workshop and other PAG happenings. This year at the NRSP-8 Swine Subcommittee Workshop on January 15, 2011, we will celebrate the “end of the beginning”- the completion of the draft pig genome sequence. We have a great joint session planned with the Cattle/Sheep group in the morning, as this was very successful last year. At this joint session, we will hear from both academia and the industry regarding the nature of the genome (A. Archibald) and the use of it to understand traits of interest (B. Harzilius). In the afternoon, we will have several talks on annotating (J. Loveland) and analyzing the genome (M. Groenen, H.-J. Megens, O. Madsen). We will finish with a talk on GWAS in reproduction and disease (D. Ciobanu). Hope to see you all there! (kindly submitted by Chris Tuggle).

PAG 2011 – Swine Sequencing/Publication meeting will be a breakfast meeting at 7-8am in Pacific Salon 1 on Monday January 17. Please pick up your breakfast and come to the meeting. The agenda will be 1. Introductions; 2. Review process in developing and defining themes for the sequence paper; 3. Review timetable for completion of data analysis, manuscript preparation and submission; 4. Ranking of target journals for the main paper; 5. Review the proposed companion papers and target journals; 6. Discuss integration of data, e.g. into the Ensembl database to enable data analysis; and 7. Assignments. Plan to join us if you are working on these publications (kindly submitted by Larry Schook).

New White Paper on swine genome progress and future directions was recently prepared in response to a request by the USDA and other agencies to benchmark progress in livestock genomes. The white paper received inputs from swine genome researchers around the globe including researchers from the International Swine Genome Sequencing Consortium (SGSC). The white paper can be seen at <http://www.animalgenome.org/pigs/community/WhitePaper/>. Your thoughts are appreciated.

The NRSP-8 Bioinformatics Team is keeping the pig genome sequencing activities updated. The most recent updates are new links to the NCBI annotation of pig genome version 9.2 and NAGRP blast site for the internal released assembly version 10, among others. Click “Swine Genome Sequencing: News & Updates” at the pig genome web site (<http://www.animalgenome.org/pigs/>) for more details.

A data repository was set up by the NRSP-8 Bioinformatics Team for the pig genome research community to share data. It can be seen at (<http://www.animalgenome.org/repository/pig/>). Currently available data sets are the Illumina 60K SNP locations for build 10 contributed by Martien Groenen. Those who wish to share data, please contact the Swine Genome Coordinator Max Rothschild (mfrothsc@iastate.edu), or Bioinformatics Coordinator Jim Reecy (jreecy@iastate.edu), or send an email directly to the NAGRP Bioinformatics Team (bioinfo-team@animalgenome.org).

New publishing format for *Pig Genome Update* coming soon. Starting January 1, 2011 the *Pig Genome Update* will be published 4 times a year instead of 6. Your input and ideas are always welcome. Please contribute.

National Swine Improvement Federation (NSIF) meeting was recently held in Kansas City. Attended by nearly 75 people, the meeting included talks devoted to genomic selection, use of markers for meat quality and feed efficiency and talks devoted to predicting the future use of genetic markers. The proceedings should be available in the near future.

On Sunday at the PAG the NRSP8 workshop will feature Professor Morris Soller giving the NRSP8 Distinguished Lecture. The PAG plenary talks and other activities at PAG XIX promise to deliver a quality meeting. Now is the time to register. Please note: NRSP-8 coordination funding will be available to partially support travel or registration for committee members or members of their labs. If interested, please contact memfrothsc@iastate.edu prior to December 1.

Upcoming meetings (see: <http://www.animalgenome.org/pigs/community/meetings.html>)

Plant and Animal Genome XIX Conference, January 15-19, 2011, San Diego CA. For details see <http://www.intl-pag.org/>

Gordon Research Conference in Quantitative Genetics & Genomics, Feb. 20-25, 2011, Hotel Galvez, Galveston, TX. See <http://www.grc.org/programs.aspx?year=2011&program=quantgen>

Swine in Biomedical Research, July 17-19, 2011, Chicago IL, for details contact Larry Schook at schook@uiuc.edu

A special thanks to friends and colleagues for your help and support. Please take some time off to enjoy the holidays!!

Items for *Pig Genome Update 107* can be sent to me by no later than March 15 please.

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