

Workshop on
“Exploiting and understanding Solanaceous genomes”
Organised by the transPLANT Consortium¹,
October 13-14, 2014
Wageningen, the Netherlands

We are pleased to announce the 3rd transPLANT user Training Workshop in Wageningen, the Netherlands (Wageningen University & Research Centre) on **October 13-14, 2014**. transPLANT is a vibrant consortium of 11 European partners gathered to address the challenges of complex plant genome data integration and analysis. It aims to develop a trans-national infrastructure for plant genomic science. For details, please visit <http://transplantdb.eu/>.

This third workshop (see detailed program below) focuses on current developments in plant data resources at transPLANT partner sites, with a special reference to *Solanaceae* and its genomes, especially tomato and potato. The workshop is targeted at (experimental) biologists and breeders who have needs to use these resources in everyday work to interpret own observations and plan new research objectives. No particular prior (informatics) knowledge or skills are required. In the different sessions, the workshop will introduce partner resources and tools, with emphasis on hands-on training how to obtain, search and use this data. The local organizer is Wageningen University & Research Centre (WUR), Applied Bioinformatics, Plant Research International.

Costs

There is NO workshop fee, but you will have to organize and pay your own travel, accommodation, local expenses and possible visa requirements. The organizers may select participants on the basis of information obtained at application. Details of accommodation and transport to Wageningen will be given upon acceptance to the Workshop. The maximum number of participants is restricted to 36.

Registration

If you are interested in participating, please send the information requested in the application form below to Jan-Peter Nap, Plant Research International, Wageningen (janpeter.nap@wur.nl) and to Manuel Spannagl, Helmholtz Center Munich, Germany (manuel.spannagl@helmholtz-muenchen.de) no later than **September 8, 2014**. Inquiries can be sent to these mails as well.

Institutions teaching in Workshop

EMBL-EBI, UK; WUR, NL; IPK Gatersleben, D; Keygene, NL

3rd transPLANT user training Workshop, October 13-14, 2014

Application form (to be sent by email to janpeter.nap@wur.nl and manuel.spannagl@helmholtz-muenchen.de no later than **September 8, 2014**)

Name, surname:

Position:

Affiliation:

Address:

E-mail:

Telephone:

¹ The transPLANT project is funded by the European Commission since September 2011 within its 7th Framework Programme under the thematic area "Infrastructures", contract number 283496.

Detailed Program transplant Training Workshop

(tentative; program may see minor changes in content, staff involved or timing)

Day 1 - October 13, 2014

18:00 Welcome dinner/get2together/introduction of participants (place to be announced)

20.00 - 21:30 Evening introduction.

Overview of program - WUR IT system – Solanaceous genomes (**WUR**)

21.30 End of program Day 1 - Wageningen-by-night (moderately guided; costs on your own)

Day 2 – October 14, 2014

Place: Wageningen University, Radix Building, computer hall PC95

Set-up: all workshop entries consist of a short introduction (~15'), ample do-it-yourself time and a short wrap-up (~10')

8.40 *Opening*

8:45 - 10:00: Mining structural variation in solanaceous genomes (**EMBL-EBI – Dan Bolser**)

Ensemble plants is the prime entry point for plant genome data. It hosts the variation database and archive. You will learn to explore and use this valuable resource.

10.00 *Tea and coffee*

10:20 - 11.30 Fast and easy variation querying in tomato genomes (**KeyGene – Antoine Jansen**)

Genomic variation is not easy to analyse. You will learn to investigate variation by querying variation (vcf) files, obviating the need to call in a bioinformatician.

11:30 - 12:45 Protein function prediction with BMRF (**WUR – Sven Warris, Aalt-Jan van Dijk**)

Many proteins in crop genomes have only tentative functions. You will learn to explore novel resources for protein function that may help gene prioritization in QTL studies.

12.45 *Lunch*

13:45 - 15:00 Mining integrated data sources using LAILAPS (**IPK – Matthias Lange**)

Relevant information on plant genes is scattered through many sources. You will learn to use the integrated search engine LAILAPS in the context of the transPLANT portal.

15.00 *Tea and coffee*

15:30 - 16:45 Advanced breeding of solanaceous crops using BreedDB (**WUR – Richard Finkers**)

Breeding a crop requires integration of many heterogeneous data. You will be familiarized with the various data and tools in the BreedDB platform.

16:45 - ? *Overall wrap up, evaluation, closure, drinks and departure*