

About the transPLANT consortium

Manuel Spannagl (slides adapted from Paul Kersey, EBI)

July 2015, 4th user training workshop Hinxton



transPLANT

- ***Trans-national Infrastructure for Plant Genomic Science***
- A 4 year EU FP7-funded project (DG CONNECT) coordinated by EMBL-EBI
- An I3 project with elements of coordination, service and RTD
- Involves 11 European partners including companies

transPLANT partners




HelmholtzZentrum münchen
German Research Center for Environmental Health

Project Aims

transPLANT will:

- Identify a common set of reference data to be shared between different researchers and service providers
- Construction of missing data archives
- Provide tools to manipulate and mine plant genomic data
- Provide an integrating point of interactive access to diverse data sets
- Provide a compute environment for programmatic access to plant genomic data
- Develop common standards for use within transPLANT and a wider community
- Train potential users
- Engage with other related communities to share experiences, tools and roadmaps


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trans-national infrastructure for plant genomic science

NEWS HIGHLIGHTS

News from the transPLANT project and partners. See also the [transPLANT newsletter](#).


Mining Plant Variation Data

Workshop on plant variation data, re-sequencing projects and GWAS analyses within transPLANT, hosted at The European Bioinformatics Institute, Cambridge, UK from 1st July to 3rd July. [Click here to apply](#).




BSC releases COMPSs version 1.2

The Grid Computing and Clusters group of Barcelona Supercomputing Center is proud to announce the release of COMPSs version 1.2. A framework for easily implement distributed applications.




Filling the gap between sequence and function; a bioinformatics approach

This thesis focuses on deriving function from sequence information, with the emphasis on plant



The transPLANT integrated search

Get results from ten different plant genomics databases in a single click.
Try a [sample search...](#)



transPLANT

is a European-Union funded e-infrastructure to support computational analysis of genomic data from crop and model plants. The project funds coordination and research activities; and provides free access to tools, training and data standards.

You can use this site to:

- Find content from ten different plant genomics databases in a single click e.g. [search for "rubisco"](#).
- Find out what genomic databases are available for your species of interest in our genome resource registry e.g. [look for "Arabidopsis" here](#).
- Archive, accession and update plant variation data: [find out more](#).
- Build phenotype and environment datasets with the

<http://www.transplantdb.eu>

Find out more, and perform integrated search of all transPLANT member resources

The screenshot shows the transPLANT website interface. At the top is a green navigation bar with links: Home, News, Tools, Training, Standards, About, and a search bar containing 'e.g. rubisco'. Below the navigation bar is the tagline 'trans-national infrastructure for plant genomic science'. The main content area is divided into three sections: 'CURRENT SEARCH' on the left, 'Database entries' in the middle, and 'Resources' on the right. The 'CURRENT SEARCH' section shows 'Found 11 results' and filters by host (EMBL-EBI, CSHL, Gramene, JGI, MIPS/PGSB) and data type (genomic, genes, compounds, embl, enzymes). The 'Database entries' section shows search results for 'zea mays', including 'Zea mays- Gramene- Gramene' and 'Zea mays mays- CornCyc- Plant Metabolic Network'. The 'Resources' section shows 'Zea mays ZmB73 V2- gnpGenome- URGI'.

Resources registry @ transPLANT:

> 300 distinct plant genome resources registered
incl. URL, version info, tools, ...

Keyword search available, e.g. 'tomato'

Manually curated, updated regularly

User training @ transPLANT

- We are organizing a series of **user training workshops** to introduce and train in transPLANT plant genome resources and tools
- Different core areas covered such as triticeae or *Solanaceae* resources
- Additional user training workshops at conferences (PAG, ...) or on request!
- Online user training materials available (tutorials, videos, ...) at transPLANT webhub: <http://www.transplantdb.eu/>

1st transPLANT user training workshop: „Exploring triticeae resources“



12-13 November 2012 in Versailles, France
INRA URGI campus

2nd transPLANT user training workshop: „Exploring triticeae resources“ – hands-on



27-28 June 2013 in Poznan, Poland, Adam
Mickiewicz University campus

3rd transPLANT user training workshop: „Exploiting and understanding Solanaceous genomes“



WAGENINGEN UNIVERSITEIT
WAGENINGEN UR

13-14 October 2014 in Wageningen



HelmholtzZentrum münchen
German Research Center for Environmental Health

4th transPLANT user training workshop: „Exploring Plant Variation Data “

Training

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Mining plant variation data

Venue:
European Bioinformatics Institute, CB10 1SD
United Kingdom
See map: [Google Maps](#)

Date: Wednesday, July 1, 2015 - Friday, July 3, 2015

Organizers:
[Paul Kersey](#) , EMBL-EBI, UK
[Manuel Spannagl](#)

Admin support:
[Allison Beaumont](#)

Participation: Open application with selection

[Overview](#) | [Programme](#) | [Venue](#) |



Time	Topic	Trainer
Day 1 - Wednesday 1st July		
12:00 - 13:00	Lunch	
13:00 - 13:30	Welcome and introduction	Paul Kersey and Manuel Spannagl
13:30 - 14:00	Plant variation data - what's available, what new projects are expected	Martin Mascher (IPK)
14:00 - 15:30	Hands-on tutorial on SNP calling and data interpretation	Georg Haberer and Manuel Spannagl (HMGU)
15:30 - 16:00	Tea/coffee break	
16:00 - 17:00	Hands-on tutorial on SNP calling and data interpretation (Contd.)	Georg Haberer and Manuel Spannagl (HMGU)
17:15 - 18:00	Structural variation detection	Jorge Duarte (BioGemma)
	Check in	
19:00	Dinner Hinxton Hall	
Day 2 - Thursday 2nd July		
09:00 - 10:00	Tutorial on the Introgression Browser (iBrowser)	Jan - Peter Nap (WUR)
10:00 - 11:00	'Hands-on' workshop on variation data in Ensembl Plants	Dan Bolser, Paul Kersey (EMBL-EBI)
11:00 - 11:30	Tea/coffee break	
11:30 - 12:30	'Hands-on' workshop on variation data in Ensembl Plants	Dan Bolser, Paul Kersey (EMBL-EBI)
12:30 - 13:30	Lunch	
13:30 - 15:30	Presentation and hands-on tutorial of the VCF viewer	Antoine Janssen (KeyGene)
15:30 - 16:00	Tea/coffee break	
16:00 - 16:30	Talk: TILLING at TGAC	Sarah Ayling (TGAC)
16:30 - 17:00	Tutorial: PolyMarker	Ricardo Ramirez (TGAC)
17:00 - 17:30	Talk: resequencing approaches (WGS vs exome vs Gbs/RAD)	Sarah Ayling (TGAC)
17:30 - 18:00	Open discussion	All
19:00	Dinner	
Day 3 - Friday 3rd July		
09:30 - 11:00	A hands-on introduction and tutorial to Genome Wide Association Studies (GWAS)	Ümit Seren (GMI)
11:00 - 11:30	Tea/coffee break	
11:30 - 12:30	A hands-on introduction and tutorial to Genome Wide Association Studies (GWAS) (Contd.)	Ümit Seren (GMI)
12:30 - 13:00	Course wrap up and feedback	
13:00 - 14:00	Lunch	
14:00	Participants leave (Shuttle to Cambridge Station departs)	

01-03 July 2015 in Hinxton



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