HelmholtzZentrum münchen
German Research Center for Environmental Health

About the transPLANT consortium

Manuel Spannagl (slides adapted from Paul Kersey, EBI)

July 2015, 4th user training workshop Hinxton

transPLANT

SEVENTH FRAMEWORK PROGRAMME

HELMHOLTZ ASSOCIATION

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

EMBL-EBI

IPK GATERSLEBEN

biogemma

HELMHOLTZ GEMEINSCHAFT

INRA

TGAC The Genome Analysis Centre™

GMI GREGOR MENDEL INSTITUTE OF MOLECULAR PLANT BIOLOGY

iGR pan

Barcelona Supercomputing Center
Centro Nacional de Supercomputación

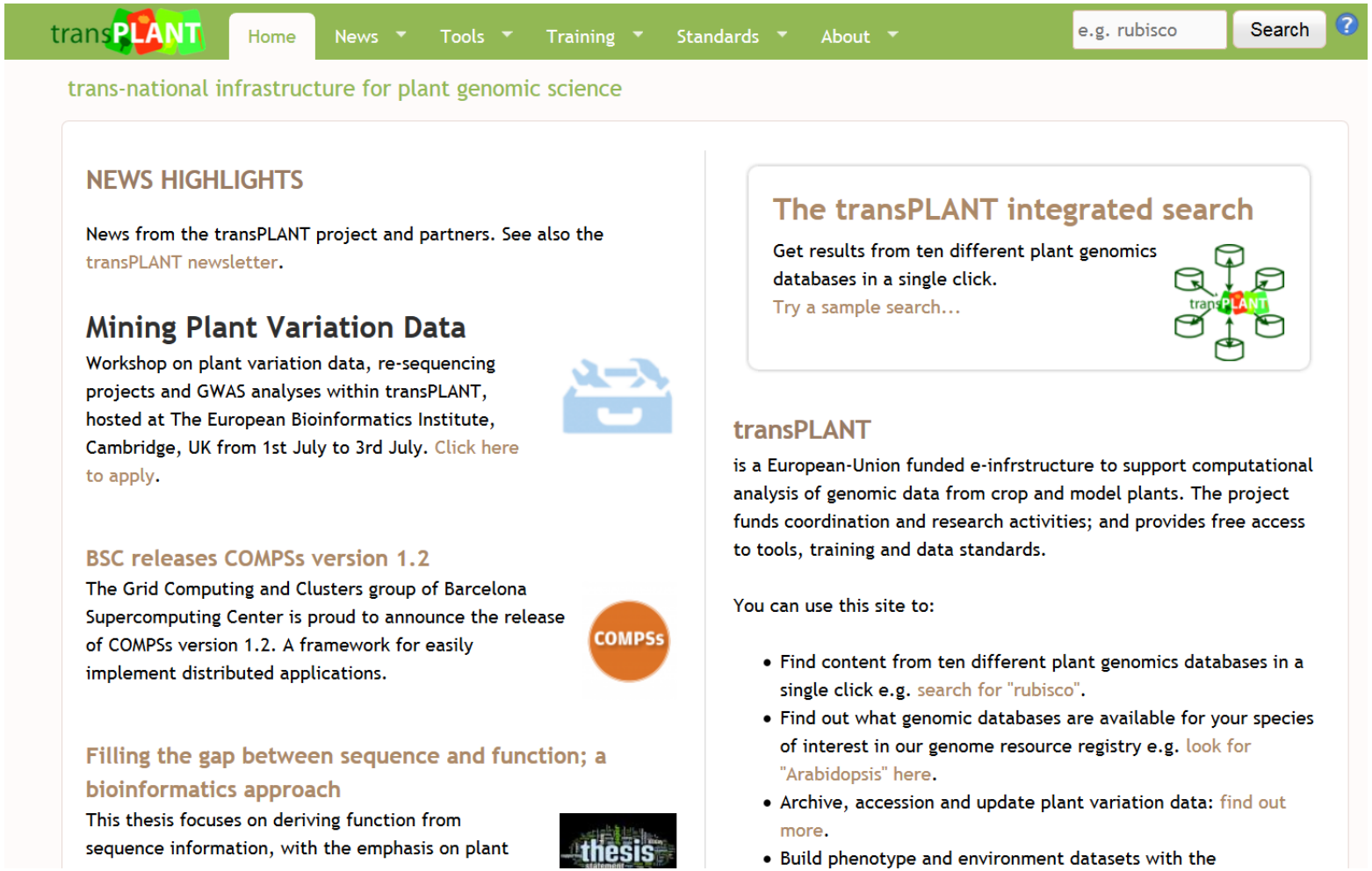
KeyGene

PLANT RESEARCH INTERNATIONAL WAGENINGEN UR

Project Aims

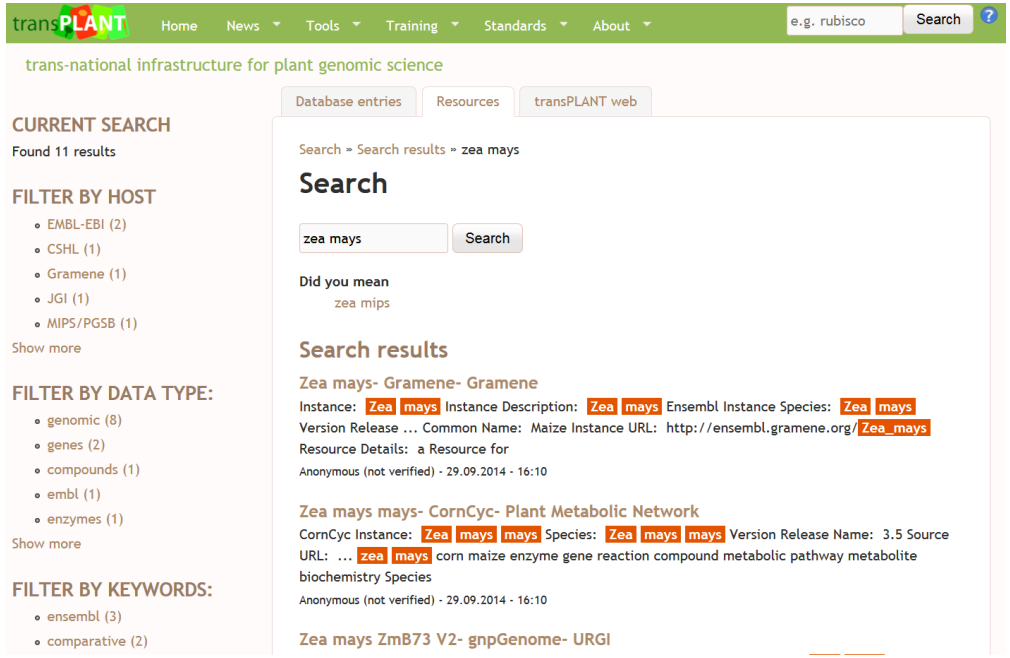
transPLANT will:

- 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



http://www.transplantdb.eu

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



Resources registry @ transPLANT:

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

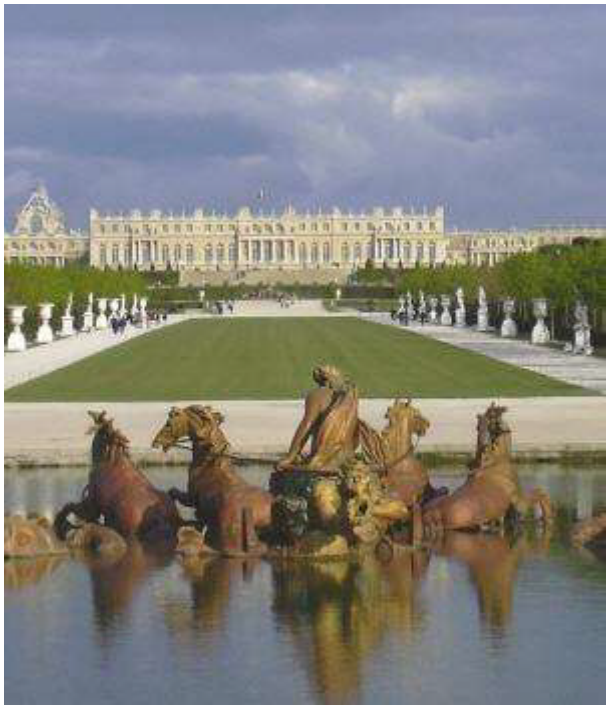
Keyword search available, e.g. ‘tomato’

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

transPLANT

SEVENTH FRAMEWORK PROGRAMME

HelmholtzZentrum münchen
German Research Center for Environmental Health

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

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

transPLANT

SEVENTH FRAMEWORK PROGRAMME

HelmholtzZentrum münchen
German Research Center for Environmental Health

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

WAGENINGEN UNIVERSITEIT
WAGENINGEN UR

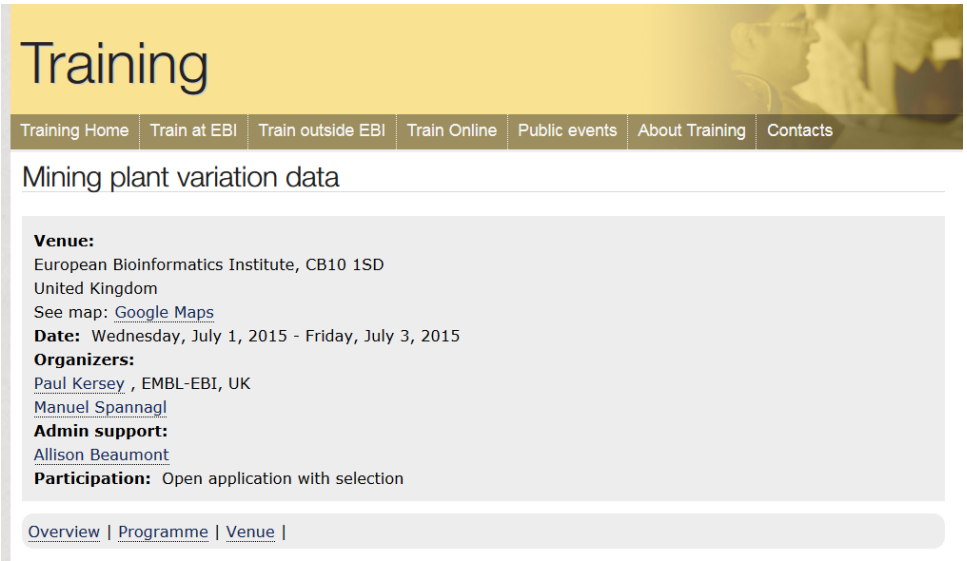
13-14 October 2014 in Wageningen

transPLANT

SEVENTH FRAMEWORK PROGRAMME

HelmholtzZentrum münchen
German Research Center for Environmental Health

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



Training

Training Home | Train at EBI | Train outside EBI | Train Online | Public events | About Training | Contacts

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 (Cotd.)	Georg Haberer and Manuel Spannagl (HMGU)
17:15 - 18:00	Structural variation detection Check in	Jorge Duarte (BioGemma)
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) (Cotd.)	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)	

EMBL-EBI

01-03 July 2015 in Hinxton

transPLANT

SEVENTH FRAMEWORK PROGRAMME

HelmholtzZentrum münchen
German Research Center for Environmental Health