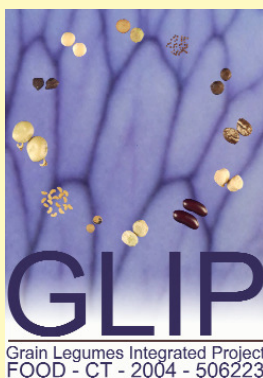


# 1<sup>st</sup> GL-TTP Workshop

## Targeting Science to Real Needs

23-25 April 2007 – Paris, France

sponsored by



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## – Workshop programme –

<b>Monday 23 April</b>		
<b>10:00-10:45</b>	<b>45'</b>	<b>Welcome coffee and registration</b>
<b>10:45-11:05</b>	<b>20'</b>	<b>S0- Introductory session</b> <b>Chair: Frédéric Muel (UNIP, France)</b>
10:45	10'	Welcome and objectives of the first GL-TTP workshop <i>Catherine Golstein (GL-TTP, France)</i>
10:55	10'	Opportunities for complementary sources of funds for GL-TTP projects – an introduction <i>Anne Schneider (AEP, France)</i>
<b>11:05-12:45</b>	<b>1h40'</b>	<b>S1- From conventional breeding to genomics-assisted breeding: an array of strategies to meet real needs</b> <b>Chair: Rajeev Varshney (ICRISAT, India)</b>
11:05	15'/5'	Breeding strategies for Mungbean {( <i>Vigna radiata</i> (L.) Wilczek} improvement for terai and inner terai of Nepal <i>Rajendra Darai (NGLRP, NARC, Nepal)</i>
11:25	15'/5'	Breeding pulse crops for the Northern Great Plains <i>Bunyamin Taran (CDC, University of Saskatchewan, Canada)</i>
11:45	15'/5'	Developing molecular markers linked to major genes for application in a lupin breeding program <i>Bevan Buirchell (DAWA, Australia)</i>
12:05	20'/5'	Genomics-assisted breeding for legume improvement: prospects and constraints <i>Rajeev Varshney (ICRISAT, India)</i>
12:30	15'	General discussion
<b>12:45-14:00</b>	<b>1h15'</b>	<b>Lunch</b>
<b>14:00-16:00</b>	<b>2h</b>	<b>S2- Germplasm banks: how to get what you need? Meet-the-curator session</b> <b>Chair: Mike Ambrose (JIC, UK)</b>
14:00	5'	FLASH 1- Survey report on breeders' usage of germplasm banks <i>Catherine Golstein (GL-TTP, France)</i>
14:05	10'/5'	Overview of grain legume ex-situ genetic resources: Where are they? How are they organised and how do I access them? <i>Mike Ambrose (JIC, UK)</i>
14:20	10'/5'	The John Innes Pisum Collection <i>Mike Ambrose (JIC, UK)</i>
14:35	15'/5'	Legumes genetic resources at ICARDA <i>Bonnie Furman (ICARDA, Syria)</i>
14:55	15'/5'	USDA cool season food legume germplasm project <i>Clare Coyne (USDA-ARS, Washington State University, USA)</i>
15:15	15'/5'	From genetic resources to marker-assisted selection: new strategies developed at INRA on <i>Pisum sativum</i> L. and <i>Vicia faba</i> L. <i>Gérard Duc (INRA-URLEG, France)</i>
15:35	15'/5'	IITA's legume researches: diversity, breeding and genomics <i>Dong-Jin Kim (IITA, Nigeria)</i>
15:55	5'	General discussion
<b>16:00-16:30</b>	<b>30'</b>	<b>Tea break</b>
<b>16:30-18:30</b>	<b>2h</b>	<b>S3- Molecular technologies and exploitation of exotic germplasm</b> <b>Chair: Jean-Christophe Glaszmann (CIRAD, France)</b>
16:30	5'	FLASH 2- Survey report on genetic diversity and exotic germplasm usage in breeding programmes <i>Catherine Golstein (GL-TTP, France)</i>
16:35	35'/10'	<b>Keynote Lecture sponsored by 454 Life Sciences: Discovery and utilisation of wild alleles for crop improvement</b> <b>Susan McCouch (Cornell University, USA)</b>
17:20	5'	FLASH 3- Survey report on genetic diversity analysis and whole-genome profiling <i>Catherine Golstein (GL-TTP, France)</i>
17:25	15'/5'	High-throughput molecular marker analysis of <i>Pisum sativum</i> germplasm <i>Andy Flavell (Dundee University at SCRI, UK)</i>
17:45	15'/5'	Characterisation of genetic diversity and structure analysis with pea ( <i>Pisum sativum</i> L.) germplasm at AGRITEC LTD collection <i>Petr Smykal (Agritec, Czech Republic)</i>
18:05	5'/5'	Genotyping project for pea breeding programmes <i>Catherine Golstein (GL-TTP, France)</i>
18:15	15'	General discussion
<b>18:30- ...</b>		<b>Free time, dinner on your own</b>

**Tuesday 24 April**

<b>7:45-8:15</b>	<b>30'</b>	<b>Morning coffee</b>
<b>8:15-10:15</b>	<b>2h</b>	<b>S4- Genetic and phenotypic diversity in breeding: evaluation and exchange networks</b> <b>Chair: Andy Flavell (Dundee University at SCRI, UK)</b>
08:15	20/5'	Germplasm reference samples for investigating genetic diversity in legumes <i>Jean-Christophe Glaszmann (CIRAD, France)</i>
08:40	20/5'	Diversity Arrays Technology (DArT) for whole-genome profiling supported breeding <i>Andrzej Kilian (DArT, Australia)</i>
09:05	20/5'	Search for sources of disease resistance in grain legumes <i>Diego Rubiales (IAS, CSIC, Spain)</i>
09:30	10/5'	Legume genetic resources and their utilisation in the Institute of Field and Vegetable Crops, Novi Sad, Serbia <i>Aleksandar Mikic (IFVCNS, Serbia)</i>
09:45	10/5'	Exchange of germplasm and MTAs <i>Mike Ambrose (JIC, UK)</i>
10:00	15'	General discussion
<b>10:15-10:45</b>	<b>30'</b>	<b>Coffee break</b>
<b>10:45-12:45</b>	<b>2h</b>	<b>S5- New resources, technologies and genomic platforms for germplasm enhancement</b> <b>Chair: Peter Winter (GenXPro GmbH, Germany)</b>
10:45	20/5'	The Medicago genome serves as reference for legume crops <i>René Geurts (Wageningen University, The Netherlands)</i>
11:10	20/5'	Lecture sponsored by Operon Biotechnologies GmbH: Identification of candidate genes by transcriptomics <i>Helge Küster (Bielefeld University, Germany)</i>
11:35	5/5'	Overview of functional genomic platforms developed in GLIP <i>Catherine Golstein (GL-TTP, France)</i>
11:45	20/5'	TILLING to validate gene function and generate new genetic resources for pea <i>Abdel Bendahmane (INRA-URGV, France)</i>
12:10	15/5'	Towards the efficient doubled haploidy of pea <i>Sergio Ochatt (INRA-URLEG, France)</i>
12:30	15'	General discussion
<b>12:45-14:00</b>	<b>1h15'</b>	<b>Lunch</b>
<b>14:00-16:00</b>	<b>2h</b>	<b>S6- Application to disease resistance</b> <b>Chair: Susan McCouch (Cornell University, NY, USA)</b>
14:00	15/5'	Development of strategies for the protection of legume crops against fungal diseases using the model plant <i>Medicago truncatula</i> <i>Christophe Jacquet (CNRS, Université de Toulouse, France)</i>
14:20	20/5'	Molecular markers for breeding disease resistance in pea, chickpea and faba bean <i>Ana Maria Torres (IFAPA-CICE, Spain)</i>
14:45	15/5'	Molecular markers for resistance to fusarium wilt and root rot in pea, ascochyta blight in chickpea <i>Clare Coyne (USDA-ARS, Washington State University, WA, USA)</i>
15:05	15/5'	Improving resistance to Aphanomyces root rot in pea by validating and cumulating resistance QTLs in breeding lines <i>Marie-Laure Pilet-Nayel (INRA-UMR APBV, France)</i>
15:25	15/5'	Sources of resistance for pests and diseases limiting UK faba bean production and methods for their evaluation <i>Donal O'Sullivan (NIAB, UK)</i>
15:45	15'	General discussion
<b>16:00-16:30</b>	<b>30'</b>	<b>Tea break</b>
<b>16:30-18:30</b>	<b>2h</b>	<b>S7- Application to abiotic stress tolerance</b> <b>Chair: Bonnie Furman (ICARDA, Syria)</b>
16:30	15/5'	Identifying key regulators involved in abiotic stress adaptation of legumes using the model <i>M. truncatula</i> <i>Martin Crespi (CNRS-JSV, France)</i>
16:50	15/5'	Identifying genes underlying QTL loci responsible for <i>M. truncatula</i> natural variation in abiotic stress response using a Consensus Genetic-Physical Map (CGPM) <i>Thierry Huguet (LIPM and INP-ENSAT, France)</i>
17:10	15/5'	Lecture sponsored by Roche Applied Science: SuperTags, chips and markers: new tools to serve knowledge-based crop improvement <i>Peter Winter (GenXPro GmbH, Germany)</i>
17:30	15/5'	Genomics and physiological approaches for enhancing molecular breeding strategies for drought tolerance in chickpea ( <i>Cicer arietinum</i> L.) <i>Rajeev Varshney (ICRISAT, India)</i>
17:50	15/5'	Exploitation of a transcription factor that promotes increased seed yield under well-watered and water deficit situations and does not compromise resistance to pathogen infection <i>Phil Mullineaux (University of Essex, UK)</i>
18:10	20'	General discussion
<b>18:30-21:15</b>	<b>2h45'</b>	<b>Free time in Paris</b>
<b>21:15-23:30</b>	<b>2h15'</b>	<b>Gourmet Cruise</b>

**Wednesday 25 April**

8:00-8:30	30'	<b>Morning coffee</b>
8:30-10:15	1h45'	<b>S8- Application to Quality Traits</b> <b>Chair: Claire Domoney (JIC, UK)</b>
08:30	20/5'	Integrated transcriptomics and proteomics analysis of <i>M. truncatula</i> seed development towards enhancing the sulphur content of grain legume crops <i>Karine Gallardo (INRA-URLEG, France)</i>
08:55	20/5'	Genetic markers for improved seed quality traits in pea <i>Claire Domoney (JIC, UK)</i>
		Joint talks: Breeding faba bean for low anti-nutritional factor content – genetic resources and molecular markers
09:20	15/5'	1- Tannins, vicine and convicine: anti-nutritional factors of faba bean – Genetic determinism and prospects for breeding <i>Gérard Duc (INRA-URLEG, France)</i>
09:40	15/5'	2- Molecular markers linked to loci controlling low tannin, vicine and convicine contents in faba bean <i>Ana Maria Torres (IFAPA-CICE, Spain)</i>
10:00	15'	General discussion
10:15-10:45	30'	<b>Coffee break</b>
10:45-12:30	1h45'	<b>S9- Integrated data management</b> <b>Chair: Helge Küster (Bielefeld University, Germany)</b>
10:45	5'	FLASH 4- Survey report on integrated data management <i>Catherine Golstein (GL-TTP, France)</i>
10:50	20/5'	The Legume Information System (LIS): an integrated, dynamic comparative legume information resource <i>Michael Gonzales (NCGR, NM, USA)</i>
11:15	20/5'	GERMINATE, a database for plant germplasm collections <i>David Marshall (SCRI, UK)</i>
11:40	20/5'	Genetic resources integrated information systems at INRA <i>Vincent Savoies (INRA-URLEG, France)</i>
12:05	25'	General discussion
12:30-14:00	1h30'	<b>Lunch</b>
14:00-16:00	2h	<b>S10- Prospects for technology transfer</b> <b>Chair: Catherine Golstein (GL-TTP, France)</b>
14:00	30'	Brainstorming pipelines for technology transfer
14:30	45'	Recapitulation of proposals for projects, evaluation-and-exchange networks and partnerships
15:15	15'	Priority setting for projects in GL-TTP
15:30	15'	Financial support from industry, external funding, calls for proposals
15:45	15'	Next GL-TTP workshop(s): format, themes, date and venue
16:00-16:30	30'	<b>Tea break</b>
16:30-17:00	30'	<b>General Assembly of GL-TTP</b>