



ACPF

AUSTRALIAN
CENTRE FOR PLANT
FUNCTIONAL GENOMICS
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ITMI Workshop
3rd Annual ACPFG Research Symposium

Genomics in the Barossa



McCracken Country Club, South Australia
27th – 31st August 2006

www.acpfg.com.au



**The International Triticeae Mapping Initiative and the Australian
Centre for Plant Functional Genomics invite you to attend the:**

2006 ITMI workshop & ACPFG Genomics Symposium

Background

The International Triticeae Mapping Initiative and the Australian Centre for Plant Functional Genomics are together hosting this years ITMI Workshop and Genomics Symposium at the McCracken Country Club, South Australia. The merging of these events represents a strong synergy - as both organisations are focused on research efforts in molecular genetics, genomics and genetic analysis in the Triticeae - wheat, barley, rye and their wild relatives. Through this event, both organisations aim to:

- Generate an atmosphere for open discussion and vigorous debate around the topics of molecular genetics, genomics and genetic analysis in the triticeae... wheat, barley, rye and their wild relatives
- Bring together leading national and international researchers to exchange innovative ideas and latest research
- Give new research scientists and students the opportunity to meet the more senior members working in the research area

Conference Proceedings

The ITMI workshop will commence on Sunday the 27th of August 2006 with the ITMI Triticeae genomics vision' meeting.

ITMI was established to provide support in the coordination of research efforts in molecular genetics, genomics and genetic analysis in the Triticeae. The broad aims of ITMI are to:

- Ensure data and information of the Triticeae is readily available to all researchers
- Help avoid duplication of research efforts
- Provide framework for accessing International collaboration
- Help keep Triticeae research at the cutting edge of genetic research.

In order to meet these objectives ITMI provides up-to-date information on research programs, provides a forum for discussion of ideas and for the development of collaborative research programs.

The research symposium will begin on Monday the 28th of August. Each session will commence with a keynote talk, followed by a shorter series of talks where international and national researchers will provide an overview of recent advances in the fields of molecular genetics, genomics and genetic analysis in the Triticeae – wheat, barley, rye and their wild relatives. The invited speakers will present the latest research findings.

Focus areas include:

- Core collections: germplasm markers and phenotypes
- Recombinational analysis: linkage maps, marker trait associations, QTL and mapping populations
- Physical analysis: long range sequencing, physical maps and radiation hybrid mapping
- Expression profiling: RNA (microarrays, proteins and metabolites)
- Functional analysis: Transformation, RNAi, VIGS, TIGS, mutagenesis, high throughput in situ
- Bioinformatics
- Applied genomics



- The Organising Committee and the Secretariat will not take any responsibility for any participant failing to insure. Please seek further information from your travel agent or airline
- Overseas delegates should contact a travel agent or their local Australian Consulate or travel agent regarding visas and entry requirements. <http://www.immi.gov.au/>

Taxes

Australia has a Federal Goods and Services Tax (GST) of 10%. Overseas delegates are not exempt from paying this tax.

Organizing Committee

- Professor Peter Langridge
- Belinda Barr
- Lara Birchby

Contact Details

For expressions of interest and for further details please contact:

Lara Birchby, Meeting Manager

ITMI Workshop and Genomics Symposium
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Phone: (08) 8363 1307 (Within Australia) +61 8 8363 1307 (International)

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Offered contributions

All participants are invited to submit abstracts on any aspect of Triticeae genomics or the biology of abiotic stress tolerance. Abstracts should be no more than one A4 page and should meet the criteria highlighted.

If you would like to present a poster and not be considered for an oral presentation, please indicate this in your submission.

Abstracts

- Title should be bold, Times New Roman, font size 16pt
- Underneath the title should be the Presenter(s) name(s), font size 14pt. Followed by Presenter(s) contact details, including Affiliation(s)
- Abstract text should be in Times New Roman, font size 12pt, single line spacing
- No more than one A4 page

Posters:

- Poster size must be A0 (841 x 1189 mm)
- Please provide your own Velcro to mount your poster



- Posters will be on display each lunch and dinner, and assessed during the poster session. A prize will be awarded to the best poster
- Ensure the poster displays your contact details and affiliations
- Posters to be set up before Monday lunch time
- All posters must be removed following the symposium
- Poster presenters must attend the poster session to present their posters on Tuesday the 29th at 8:00pm in the McCracken Country Club dining room

No extensions will be considered. Authors will be informed of the status of their submission by 31st July, 2006.

Send your presentation or poster abstracts (one A4 page or less) to:

2006 ITMI workshop & ACPFG Genomics Symposium

Festival City Conventions Pty Ltd
PO Box 949
KENT TOWN SA 5071

Or send via email to: acpfg@fcconventions.com.au

Conditions

- Electronic copies of your abstract should be send to the above address **on or before June 30th**
- All oral presenters and poster presenters must be registered, fully-paid delegates
- All successful abstracts submissions (both presenters and posters) will be published in the Proceedings. Abstracts will be printed exactly as submitted. No editorial corrections will be made

Confirmation

All registrations and papers will be acknowledged in writing with confirmation of requirements as indicated on your Registration Form and will be accompanied by a receipt for any payment received. Please check your confirmation letter carefully and notify the Secretariat immediately of any changes required. If you have not received an acknowledgement three weeks after sending your details, we suggest that you contact the Secretariat to ensure that your form has been received.



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**ITMI Workshop /
ACPF Genomics Symposium**



2006 Program

McCracken Country Club, Victor Harbor
South Australia
27th – 31st August 2006

www.acpfg.com.au



2006 ITMI workshop & ACPFG Genomics Symposium

Sunday, 27th August

- 9:00 am** Transfer departs Plant Genomics Centre, Waite Campus *Arrive approx. 10.00 am*
10:00 International Wheat Genome Sequencing Consortium (IWGSC) business meeting
1:00 Lunch
2:00 ITMI Business meeting and discussion of the ITMI Vision and Mission
4:00 Transfer departs Plant Genomics Centre, Waite Campus *Arrive approx. 5.00 pm*
6:30 Informal BBQ

Monday 28th August

- 7:45 am** Transfer departs Plant Genomics Centre, Waite Campus *Arrive approx. 9.00 am*
 Towards a full Triticeae genome sequence - Chair: Rachel Burton
9:00 - 9:40 Bikram Gill, Kansas State University, USA
 Laying the foundation for wheat genome and trait analysis: A sequence-ready physical map of hexaploid wheat
9:40 - 10:20 Catherine Feuillet, INRA, France
 Analysis of 11Mb of BAC-end sequences from chromosome 3B of hexaploid wheat reveals features of the B-genome and leads to the efficient development of chromosome-specific markers in wheat
10:20 - 10:50 Rudi Appels, MPBCRC, WA
 Update on the sequence analysis of MTP BACs in the Sr2 region of 3BS
10:50 - 11:10 Morning tea
11:10 - 11:40 Nabila Yahiaoui, University of Zurich, Switzerland
 Comparative genomics of disease resistance loci in grasses.
11:40 - 12:20 Andreas Graner, IPK, Germany
 Towards sequencing the barley genome
12:20 - 12:50 Jan Svensson, University of California, USA
 Coupling the barley physical and genetic maps in relation to 1000 abiotic stress-regulated genes
12:50 - 2:00 Lunch
2:00 - 2:40 John Snape, John Innes Centre, UK
 Brachypodium as a 'stepping-stone' for genome analysis in small-grained cereals
2:40 - 3:20 Olin Anderson, Western Regional Research Centre, University of California
 Progress on understanding the structure of the Brachypodium genome
3:20 - 3:40 Afternoon tea



Monday 28th August *(cont)*

Genetics to varieties - Chair: Jason Able

3:40 - 4:10 Helen O'Sullivan, Bristol University, UK

Towards high throughput genotyping in wheat using mapped SNPs: the second step

4:10 - 4:40 Jan Dvorak, UC Davis, USA

SNPs, new generation high-throughput markers for wheat genetics and breeding

4:40 - 5:10 Mark Sutherland, Centre for Systems Biology, University of Southern Queensland, Australia

Mapping markers for priority traits in the northern grains region of Australia

5:10 - 5:40 Ken Chalmers, MPBCRC, Adelaide, Australia

Integrating Molecular Genetics into Barley Breeding

5:40 Close for the day

6:00 Networking Happy Hour

7:00 Dinner

8:00 Quiz night

Tuesday 29th August

Genetics to function - Chair: Ute Baumann

9:00 - 9:40am Yasunari Ogihara, Kihara Institute for Biological Research, Kyoto, Japan

Comprehensive analysis of wheat ESTs in response to environmental stresses

9:40 - 10:20 Kazuhiro Sato, Research Institute for Bioresources, Okayama University, Japan

Applications of barley EST markers for the analysis of Triticeae germplasm

10:20 - 10:50 Andreas Schreiber, ACPFG, Adelaide, Australia

Wheat and barley: embarking on comparative transcriptomics for the cereals

10:50 - 11:10 Morning tea

11:10 - 11:40 Ute Roessner, ACPFG, Melbourne, Australia

Investigation of plant responses to environmental stress

11:40 - 12:20 Robbie Waugh, SCRI, Scotland UK

Realising the potential for whole genome LD-scans in barley

12:20 - 1:00 Mark Sorrells, Cornell University, USA

Linkage Disequilibrium and Association Mapping in Wheat Improvement

1:00 - 2:00 Lunch

Other Species - Chair: Renata Polotnianka

2:00 - 2:30 Thomas Dresselhaus, University of Regensburg, Germany

A transcriptomics approach to study female gametophyte functions in wheat and maize

2:30 - 3:00 Andrew Jacobs, ACPFG, Adelaide, Australia

What does moss have that higher plants do not?

3:00 - 3:30 Afternoon tea