

THE 12TH INTERNATIONAL SYMPOSIUM ON PRE-HARVEST SPROUTING IN CEREALS
 JULY 24 - 27, 2011, CAPRI CENTRE HOTEL, RED DEER, ALBERTA, CANADA
PROGRAM

Sunday July 24 - Palermo Savona

4:30 - 5:30 pm	Barley Development Council – Annual Meeting
5:30 - 8:00 pm	Registration
6:00 - 9:00 pm	Welcome Reception and Mixer

Monday July 25 - Palermo Savona

Session 1. Symposium Opening

Chair: Dr. Joseph Nyachiro

7:00 am	Breakfast
7:30	Registration / Posters set up 7:30 am & noon
8:15	Welcome and Official Opening: Mayor Morris Flewelling, City of Red Deer
8:30	R and D Support for Pre-Harvest Sprouting and Seed Dormancy (Jim Helm)
8:55	Breeding for Pre-Harvest Sprouting Resistance in Canadian Wheat: Challenges & Successes (Ron DePauw)
9:20	Pre-Harvest Sprouting and Seed Dormancy in Cereals Producer Perspective (Bill Chapman)
9:45	Pre-Harvest Sprouting - an End Product Quality Perspective (Lisa Nemeth)
10:15	Morning coffee/tea break

Session 2. Evaluation and Management of Pre-Harvest Sprouting and Seed Dormancy

Chair: Dr. Mary-Lou Swift

10:45 am	Understanding dormancy in cereals and its direct effect on seed quality (Sarah Foster)
11:10	Canadian Seed Testing Laboratory Perspective: Cereal Dormancy and Sprouting Testing Methodology and Detection (Holly Gelech)
11:35	Evaluation of an ELISA based rapid assay for the estimation of falling number in Canadian wheat classes (Dave W. Hatcher)
12:00 noon	Lunch

Session 3. Physiology of Pre-Harvest Sprouting, Seed Dormancy and Germination (ISSS Feature)

Chair: Dr. Pat Juskiw

1:00 pm	The induction of pre-maturity α -amylase in wheat grains (Kirtkumar R. Kondhare)
1:25	Pre-maturity amylase in wheat (Alison Huttly)
1:50	<i>Vp1</i> expression profiles during kernel development in cereals (Sarah De Laethauwer)
2:15	Investigating the role of ABA signalling in wheat grain dormancy; insights from mutant analysis (Camille M. Steber)
2:40	Afternoon coffee/tea break

Session 4. Genes Signalling Seed Dormancy and Germination

Chair: Dr. Richard W. Joy

3:10 pm	Barley <i>ant 28</i> gene encodes an R2R3 MYB domain protein that controls proanthocyanidin accumulation in grain (Eiko Himi)
3:35	A temperature-dependent seed dormancy (TMS) 2 gene acts in the regulation of germination in wheat (Shingo Nakamura)

Field Crop Development Centre Research Farm BBQ

5:30	Buses leave for FCDC Farm for BBQ (20 minute ride)
9:00	Buses depart FCDC Farm to Capri Centre Hotel

Tuesday July 26

Session 5. Genetics, Breeding and Environment for Pre-Harvest Sprouting and Seed Dormancy

Chair: Dr. Ron DePauw

7:00 am	Breakfast
8:30	Germinability during grain development and after-ripening in wheat lines carrying different alleles at dormancy QTL (Daryl J. Mares)
8:55	Analysis of natural variation for seed dormancy and pre-harvest sprouting tolerance in wheat (Francis Ogbonnaya)
9:20	New strategies for discovery loci determining pre-harvest sprouting and dormancy in wheat and barley (Ulrike Lohwasser)
9:45	Environment and genotypic effects on pre-harvest sprouting and seed dormancy in Canadian barley cultivars (Joseph Nyachiro)
10:10	Morning coffee/tea break

Session 6: Genetics, Breeding and Environment for Pre-Harvest Sprouting and Seed Dormancy ... continued

Chair: Dr. Bill Legge

10:40 am	An overview on the effect of climatic conditions on pre-harvest sprouting in South Africa (Annelie Barnard)
11:05	The role of <i>Rht2</i> and 1B/1R in controlling of pre-harvest alpha amylase activity in UK bread wheat (Aidan Farrell)
11:30	Cereal crops pre-harvest sprouting in Iran: previous research and future approaches (Abbass A. Nourinia)
12:00	Lunch

Session 7 : Molecular Biology of Pre-Harvest Sprouting, Seed Dormancy and Germination

Chair: Dr. Jennifer Zantinge

1:00 pm	NCED1 has a principal role in wheat grain dormancy and integrates changes in hormone levels and environmental factors (Jose M. Barrero)
1:25	Toward understanding the gene network underlying wheat pre-harvest sprouting (Lanqin Xia)
1:50	Evaluation of methods of measurement of pre-harvest sprouting resistance in durum wheat (Julio Isidro-Sanchez)
2:15	The manipulation of proanthocyanidin biosynthesis in wheat to investigate the role of grain colour in PHS (Andy Phillips)
2:40	Afternoon coffee/tea break

Session 8: Molecular Biology of Pre-Harvest Sprouting, Seed Dormancy and Germination

Chair: Dr. Ravi Chibbar

3:10pm	Development of molecular markers for sprouting tolerance in spring barley (Jennifer Zantinge)
3:30	Allelic differentiation and downstream gene networks of the pleiotropic gene underlying the association between seed dormancy and red pericarp color in rice (Xing-You Gu)
3:55	Identification of grain dormancy QTL in a barley doubled haploid population derived from non-dormant parents (Lee Hickey)
4:30 - 6:30 pm	Poster Session / Refreshments
	Dinner on your own
	Hospitality Suite – 7:00pm – 10:00pm Boardroom #3

Wednesday July 27

Session 9. Cereal Seed Quality in Relation Pre-Harvest Sprouting and Seed Dormancy

Chair: Dr. Dave Hatcher

7:00 am	Breakfast
8:30	Falling Number – Serving the Grain Community for 50 years (Martin Hallin)
8:55	Study of the effects of pre-harvest sprouting on the storability, malting quality and brewing performance of three Canadian malting barley varieties (Yueshu Li)
9:20	Pre-harvest sprouting and malting quality: which one is more important in barley (Stefan Harasymow)
9:45	Evaluation of alpha amylase accumulation and falling numbers in soft red and soft white wheat adapted to Michigan (Neil Yu)
10:10	Morning coffee/tea break

Session 10. Mapping Factors Related to Pre-Harvest Sprouting, Seed Dormancy and Germination

Chair: Dr. Anthony Anyia

10:40 am	Modifying expression of thioredoxin to improve pre-harvest sprouting resistance and other cereal grain properties (Peggy G. Lemaux)
11:05	Association mapping for pre-harvest sprouting tolerance in bread wheat (V. Jaiswal)
11:30	Exploring genetic and epigenetic basis of seed dormancy in cereals (Manjit Singh)
12:00	Barley Seed Dormancy Test: In Light or Dark (Xue Gong)
12:30	Lunch / Posters Removed

Session 11. Panel Session

1:30 pm	Wrap up of the symposium presentations and discussions
2:55	Closing remarks and vote for next host and venue for the 13 th ISPHSC
3:00	Afternoon coffee/tea break

Farewell Banquet

5:30 pm	Reception / Cocktails
6:30	Banquet

Thursday July 28

Post Conference Tour – Field Crop Development Centre Field Day

Cost: \$20.00

8:00 am	Buses depart Capri Hotel to Field Crop Development Centre (FCDC), Lacombe
9:00 - 12:00	Tour of provincial and federal research centres
12: 00	BBQ lunch at FCDC (Included in cost)
1:15 pm	Continue tour of provincial and federal research centres
3:30	Buses depart FCDC back to Capri Hotel , Red Deer