MAGIC 2019

TUESDAY 23rd July

09:00-09:20Welcome09:20-10:00Ian MackayMultiparental populations: beyond trait mapping10:00-10:40R K SinghGenesis of rice MAGIC populations at IRRI and their utilization in various programs10:40-11:10Coffee11:10-11:30Mahendar ThudiSequencing and association analysis in chickpea MAGIC population11:30-11:45Manish RoorkiwalChickpea germplasm resequencing11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea breeding research at ICRISAT12:15-12:30N P SinghChickpea improvement – a success story in India12:30-13:30LunchIatso-11:1013:20-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping in MAGIC elite wheat populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping in Sice 'heat MAGIC' mapping16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm 18:00-19:30BBQ Dinner	TOLSDAT 25 J	uly	
Interpretationbeyond trait mapping10:00-10:40R K SinghGenesis of rice MAGIC populations at IRRI and their utilization in various programs10:40-11:10Coffee11:10-11:30Mahendar ThudiSequencing and association analysis in chickpea MAGIC population11:30-11:45Manish RoorkiwalChickpea germplasm resequencing11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea improvement – a success story in India12:30-13:30LunchI13:30-14:10Richard MottMAGIC genomes Ancestral Blocks BIT by bit14:50-15:20CoffeeI15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping I MIAB MAGIC elite wheat keith Gardner population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	09:00-09:20	Welcome	
10:00-10:40R K SinghGenesis of rice MAGIC populations at IRRI and their utilization in various programs10:40-11:10Coffee11:10-11:30Mahendar ThudiSequencing and association analysis in chickpea MAGIC population11:30-11:45Manish RoorkiwalChickpea germplasm resequencing11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea in provement – a success story in India12:30-13:30LunchII:3:30-14:1013:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20CoffeeII:2:0-15:4015:20-15:40Funmi LadejobiRice 'heat MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC mapping16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	09:20-10:00	lan Mackay	Multiparental populations:
DescriptionDescription10:40-11:10Coffee11:10-11:30Mahendar ThudiSequencing and association analysis in chickpea MAGIC population11:30-11:45Manish RoorkiwalChickpea germplasm resequencing11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea improvement – a success story in India12:30-13:30LunchItench13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20CoffeeJames Cockram & Keith Gardner15:00-16:40James Cockram & Michael ScottNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm			beyond trait mapping
Utilization in various programs10:40-11:10Coffee11:10-11:30Mahendar ThudiSequencing and association analysis in chickpea MAGIC population11:30-11:45Manish RoorkiwalChickpea germplasm resequencing11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea breeding research at ICRISAT12:15-12:30N P SinghChickpea improvement – a success story in India12:30-13:30Lunch13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	10:00-10:40	R K Singh	Genesis of rice MAGIC
10:40-11:10Coffee11:10-11:30Mahendar ThudiSequencing and association analysis in chickpea MAGIC population11:30-11:45Manish RoorkiwalChickpea germplasm resequencing11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea breeding research at ICRISAT12:15-12:30N P SinghChickpea improvement – a success story in India12:30-13:30LunchMartin Boer13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm			populations at IRRI and their
11:10-11:30Mahendar ThudiSequencing and association analysis in chickpea MAGIC population11:30-11:45Manish RoorkiwalChickpea germplasm resequencing11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea breeding research at ICRISAT12:15-12:30N P SinghChickpea improvement – a success story in India12:30-13:30Lunch13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm			utilization in various programs
analysis in chickpea MAGIC population11:30-11:45Manish RoorkiwalChickpea germplasm resequencing11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea breeding research at ICRISAT12:15-12:30N P SinghChickpea improvement – a success story in India12:30-13:30Lunch13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	10:40-11:10	Coffee	
InterferenceInterference11:45-12:00Bharadwaj ChellapillaGenomics assisted breeding in chickpea at IARI12:00-12:15Srinivasan SamineniChickpea breeding research at ICRISAT12:15-12:30N P SinghChickpea improvement – a success story in India12:30-13:30Lunch13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	11:10-11:30	Mahendar Thudi	analysis in chickpea MAGIC
Image: chickpea at IARI12:00-12:15Srinivasan SamineniChickpea breeding research at ICRISAT12:15-12:30N P SinghChickpea improvement – a success story in India12:30-13:30Lunch13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & NIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	11:30-11:45	Manish Roorkiwal	
ICRISAT12:15-12:30N P SinghChickpea improvement – a success story in India12:30-13:30Lunch13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	11:45-12:00	Bharadwaj Chellapilla	_
success story in India12:30-13:30Lunch13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	12:00-12:15	Srinivasan Samineni	
12:30-13:30Lunch13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	12:15-12:30	N P Singh	Chickpea improvement – a
13:30-14:10Richard MottMAGIC genomes14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm			success story in India
14:10-14:50Martin BoerRABBIT: Reconstruction of Ancestral Blocks BIT by bit14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	12:30-13:30	Lunch	
14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	13:30-14:10	Richard Mott	MAGIC genomes
14:50-15:20Coffee15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	14:10-14:50	Martin Boer	RABBIT: Reconstruction of
15:20-15:40Karl BromanQTL mapping in MAGIC populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm			Ancestral Blocks BIT by bit
Image: Populations with R/qtl215:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & NIAB MAGIC elite wheat Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	14:50-15:20	Coffee	
15:40-16:00Funmi LadejobiRice 'heat MAGIC' mapping16:00-16:40James Cockram & Meith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	15:20-15:40	Karl Broman	
16:00-16:40James Cockram & Keith GardnerNIAB MAGIC elite wheat population: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm			
Keith Gardnerpopulation: overview and mapping results16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	15:40-16:00	Funmi Ladejobi	
16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm	16:00-16:40	James Cockram &	NIAB MAGIC elite wheat
16:40-17:00Michael ScottGenetic resources for the sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm		Keith Gardner	population: overview and
sixteen-founder NIAB diverse MAGIC wheat population17:00-18:00Tour of NIAB Innovation Farm			
Image: Mage: M	16:40-17:00	Michael Scott	
17:00-18:00 Tour of NIAB Innovation Farm			
		_	· ·
18:00-19:30 BBQ Dinner			
	18:00-19:30	BBQ Dinner	

WEDNESDAY 24th July

09:00-09:40	Donal O'Sullivan	Genetic networks controlling source, sink and drought stress responses revealed using the elite wheat MAGIC population
09:40-10:20	Jay Biernaskie	MAGIC lines and the tradeoff between selfishness and group productivity
10:20-10:40	Wenhao Li	A general IBD-based mixed model approach for QTL mapping in multiparental populations
10:40-11:10	Coffee	
11:10-11:50	Matteo Dell'Acqua	A Nested Association Mapping population for QTL mapping and participatory breeding in Ethiopian wheat
11:10-11:50	Alex Whan	Putting the fun back into MAGIC funnels
12:30-13:30	Lunch	
13:30-14:10	Matt Clark	Combining genome technologies with genetics to analyse MAGIC populations
14:10-14:30	Laura Dixon	Identifying genes which underpin wheat floral architecture
14:50-15:20	Coffee	
15:20-15:50	Rowena Downie	Genetically dissecting disease interactions between <i>Parastagonospora nodorum</i> and wheat
15:50-17:00	Discussion	