

Gene List and Mouse Production Coordination

Viveklyer, WTSI

IKMC kickoff

29 Sept 2011

Who are we

Who are we
Our software

Who are we

Our software

IMPC

participants

Who are we

Our software

IMPC
participants

Planning
production

Who are we

Our software

IMPC
participants

Planning
production

Tracking
production

Who are we

Our software

IMPC
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production

Tracking
production

Everything
else

Who are we

Planning
production

IMF
particip

Track
production

else

Who are we

Our software

IMPC
participants

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production

Tracking
production

Everything
else

WHO ARE WE

MPI2 - KOMP2 data coord - EBI, Harwell, WTSI

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

Relevant Experience:

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

Relevant Experience: IKMC ES Cell reporting

IKMC Project Report – EUCOMM (ID: 36634)

Arid4a MGI:2444354 ENSMUSG00000048118 OTTMUSG00000017260

Pre-pipeline

Designs

Vectors

ES Cells

Mice

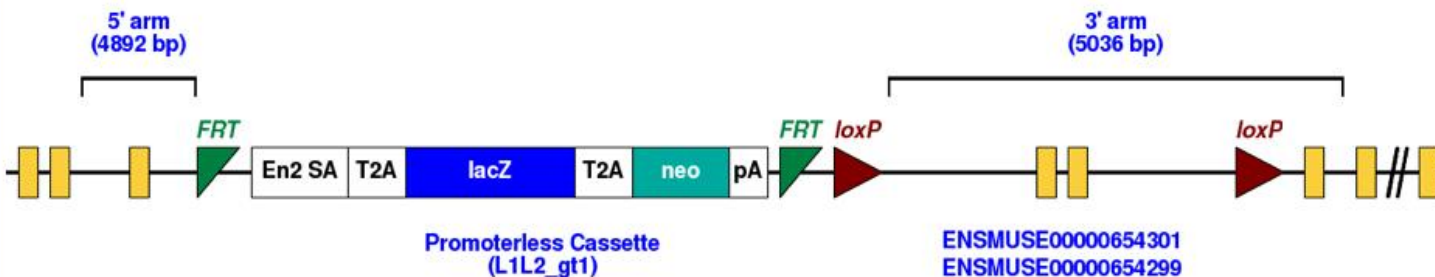
Mice – Genotype confirmed

▼ Mice

	Microinjection Status	Allele	Allele Type	ES Cell Clone	Genetic Background	QC Data	MI/Distribution Centre
 order	Genotype confirmed	Arid4a ^{tm1a(EUCOMM)Wtsi}	Knockout-First – Reporter Tagged Insertion (Promotorless Cassette)	EPD0027_5_E08	C57BL/6NTac/Den;C57BL/6J-Tyr ^{c-Brd} ;C57BL/6N	view (about)	WTSI/CNB

► Mutagenesis Predictions

▼ ES Cell Clones With Conditional Potential



Genome Browsers:  Ensembl (mouse) –  Ensembl (human) –  UCSC (mouse) –  UCSC (human)

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

Experience: EUCOMM Mouse production tracking

 **iMits**
International Micro-Injection Tracking System

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► *Search for Micro-Injections*

Micro-injection Attempts

Choose a View

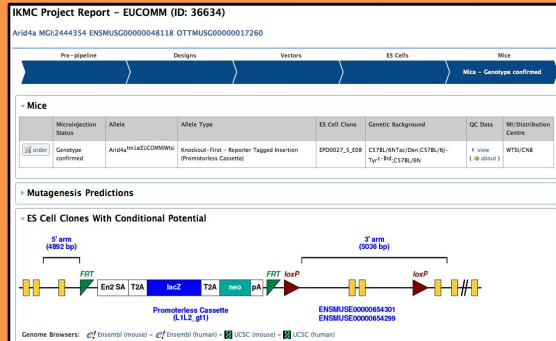
Everything | Transfer Details | Litter Details | Chimera Mating Details | QC Details | **Summary**

Edit in Form	ES Cell	Marker Sy...	MI Date ▼	Status	Colony Name	Production Centre	Distribution Centre	Deposited Material	EMMA Status	Mo
Edit in Form	EPD0177_1_E09	Kctd15	04-03-2011	Genotype confirmed	ICS-EPD0177_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EPD0125_3_E05	D2Erd750e	02-03-2011	Micro-injection in progress	ICS-EPD0125_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEPD0527_7_...	Ppp6c	01-03-2011	Micro-injection in progress	ICS-HEPD0527_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEPD0526_3_...	Atad2b	11-01-2011	Micro-injection in progress	ICS-HEPD0526_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEPD0527_2_...	Pla2g4f	01-12-2010	Micro-injection in progress	ICS-HEPD0527_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEPD0527_4_...	Fkbp9	26-10-2010	Genotype confirmed	ICS-HEPD0527_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	HEPD0527_5_...	Heatr3	29-09-2010	Micro-injection in progress	ICS-HEPD0527_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEPD0535_2_...	Prdm10	26-08-2010	Genotype confirmed	ICS-HEPD0535_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EPD0288_3_A08	Afm	06-08-2010	Genotype confirmed	ICS-EPD0288_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EPD0113_4_F05	Tgif2	21-07-2010	Genotype confirmed	ICS-EPD0113_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	HEPD0546_1_...	Rc3h1	19-07-2010	Micro-injection aborted	ICS-HEPD0546_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEPD0546_2_...	Mosc2	15-07-2010	Genotype confirmed	ICS-HEPD0546_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EPD0230_2_C02	Rfx4	08-07-2010	Micro-injection aborted	ICS-EPD0230_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	EPD0065_4_B07	Raf1	28-05-2010	Genotype confirmed	ICS-EPD0065_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EPD0270_3_D04	Csnk1a1	21-05-2010	Micro-injection aborted	ICS-EPD0270_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	

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MPI2 - KOMP2 data coord - EBI, Harwell, **WTSI**

Experience:



iMits
International Micro-Injection Tracking System

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Search for Micro-Injections

Micro-Injection Attempts

Choose a View: [Everything](#) [Transfer Details](#) [Litter Details](#) [Chimera Mating Details](#) [QC Details](#) [Summary](#)

Edit in Form	ES Cell	Marker Sy...	MI Date	Status	Colony Name	Production Centre	Distribution Centre	Deposited Material	EMMA Status	Moi
Edit in Form	EP00177_1_E09	Kist15	04-03-2011	Genotype confirmed	ICS-EP00177...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00126_3_E09	D2Endf06e	02-03-2011	Micro-injection in progress	ICS-EP00126...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00527_3_...	Pyd6c	01-03-2011	Micro-injection in progress	ICS-HEP00527...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00526_3_...	Awtd2	11-01-2011	Micro-injection in progress	ICS-HEP00526...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00527_3_...	Pha2gtf	01-12-2010	Micro-injection in progress	ICS-HEP00527...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00527_3_...	Flkap9	26-10-2010	Genotype confirmed	ICS-HEP00527...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	HEP00527_3_...	Hesr3	29-09-2010	Micro-injection in progress	ICS-HEP00527...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00526_3_...	Php10	26-08-2010	Genotype confirmed	ICS-HEP00526...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00288_3_A08	Atm	08-08-2010	Genotype confirmed	ICS-EP00288...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00113_4_F05	Tgfr2	21-07-2010	Genotype confirmed	ICS-EP00113...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	HEP00546_3_...	Rc3h1	19-07-2010	Micro-injection aborted	ICS-HEP00546...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00546_3_...	Mme2	15-07-2010	Genotype confirmed	ICS-HEP00546...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00236_3_C02	Rfx4	08-07-2010	Micro-injection aborted	ICS-EP00236...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	EP00065_3_R07	Rfx1	08-05-2010	Genotype confirmed	ICS-EP00065...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00276_3_D04	Clark1a1	21-05-2010	Micro-injection aborted	ICS-EP00276...	ICS	ICS	Frozen embryos	Unavailable for EMMA	

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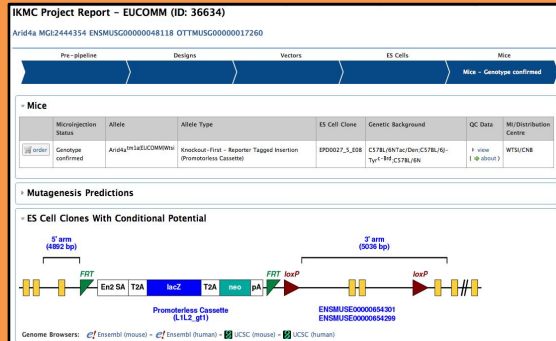
Remit inside KOMP2:

Production tracking and coordination

Statuses and dates

MPI2 - KOMP2 data coord - EBI, Harwell, **WTSI**

Experience:



iMits International Micro-Injection Tracking System

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Search for Micro-Injections

Micro-Injection Attempts

Choose a View: Everything Transfer Details Litter Details Chimeras Mating Details QC Details Summary

Edit in Form	ES Cell	Marker Sy...	MI Date	Status	Colony Name	Production Centre	Distribution Centre	Deposited Material	EMMA Status	Moi
Edit in Form	EP00177_1_E09	Kid15	04-03-2011	Genotype confirmed	ICS-EP00177...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00126_3_E09	D2End706	02-03-2011	Micro-injection in progress	ICS-EP00126...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00527_3_...	Pyd6c	01-03-2011	Micro-injection in progress	ICS-HEP00527...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00528_3_...	Aw2b2	11-01-2011	Micro-injection in progress	ICS-HEP00528...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00527_3_...	Ph2g1f	01-12-2010	Micro-injection in progress	ICS-HEP00527...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00527_3_...	Flap9	26-10-2010	Genotype confirmed	ICS-HEP00527...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	HEP00527_3_...	Hed3	29-09-2010	Micro-injection in progress	ICS-HEP00527...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00528_3_...	Ph2g1f	26-08-2010	Genotype confirmed	ICS-HEP00528...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00288_3_A08	Atm	08-08-2010	Genotype confirmed	ICS-EP00288...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00113_4_F05	Tg2	21-07-2010	Genotype confirmed	ICS-EP00113...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	HEP00546_3_...	Rc3h1	19-07-2010	Micro-injection aborted	ICS-HEP00546...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	HEP00546_3_...	Mus2	15-07-2010	Genotype confirmed	ICS-HEP00546...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00230_3_C02	Rh4	08-07-2010	Micro-injection aborted	ICS-EP00230...	ICS	ICS	Frozen embryos	Unavailable for EMMA	
Edit in Form	EP00065_3_R07	Raf1	08-05-2010	Genotype confirmed	ICS-EP00065...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00270_3_D04	Clark1a1	21-05-2010	Micro-injection aborted	ICS-EP00270...	ICS	ICS	Frozen embryos	Unavailable for EMMA	

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Remit inside KOMP2:

Production tracking and coordination
Statuses and dates

Extension in the context of the IMPC

Assist initial mouse production planning

Our software

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

Software is planned and built around:

iMits – production planning / tracking

DCCDB – phenotype data central / analysis

Phenotype staging area (QC)

Data Viewing and Analysis Uis

IMPC Portal – entry-point mouse integration

EBI integration into everything (*Human*)

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

MPI2 - KOMP2 data coord - EBI, Harwell, **WTSI**

iMits production planning / tracking

Everything following: accessible via iMits

Web pages, computer,

IMPC portal (via biomarts) where suitable

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iMits production planning / tracking

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Currently:

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Micro-injection Attempts

Choose a View

	Everything	Transfer Details	Litter Details	Chimera Mating Details	QC Details	Summary			
Edit in Form	ES Cell	Marker Sy...	MI Date	Status	Colony Name	Production Centre	Distribution Centre	Deposited Material	EMMA Status
Edit in Form	EPD0177_1_E09	Kctd15	04-03-2011	Genotype confirmed	ICS-EPD0177_...	ICS	ICS	Frozen embryos	Suitable for EMMA
Edit in Form	EPD0125_3_E05	D2Ertid750e	02-03-2011	Micro-injection in progress	ICS-EPD0125_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA
Edit in Form	HEPD0527_7_...	Ppp6c	01-03-2011	Micro-injection in progress	ICS-HEPD0527_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA
Edit in Form	HEPD0526_3_...	Atad2b	11-01-2011	Micro-injection in progress	ICS-HEPD0526_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA
Edit in Form	HEPD0527_2_...	Pla2g4f	01-12-2010	Micro-injection in progress	ICS-HEPD0527_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA
Edit in Form	HEPD0527_4_...	Fkbp9	26-10-2010	Genotype confirmed	ICS-HEPD0527_...	ICS	ICS	Frozen embryos	Suitable for EMMA
Edit in Form	HEPD0527_5_...	Heatr3	29-09-2010	Micro-injection in progress	ICS-HEPD0527_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA
Edit in Form	HEPD0535_2_...	Prdm10	26-08-2010	Genotype confirmed	ICS-HEPD0535_...	ICS	ICS	Frozen embryos	Suitable for EMMA
Edit in Form	EPD0288_3_A08	Afm	06-08-2010	Genotype confirmed	ICS-EPD0288_...	ICS	ICS	Frozen embryos	Suitable for EMMA
Edit in Form	EPD0113_4_F05	Tgll2	21-07-2010	Genotype confirmed	ICS-EPD0113_...	ICS	ICS	Frozen embryos	Suitable for EMMA
Edit in Form	HEPD0548_1_...	Rc3h1	19-07-2010	Micro-injection aborted	ICS-HEPD0548_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA
Edit in Form	HEPD0548_2_...	Mosc2	15-07-2010	Genotype confirmed	ICS-HEPD0548_...	ICS	ICS	Frozen embryos	Suitable for EMMA
Edit in Form	EPD0230_2_C02	Rfx4	08-07-2010	Micro-injection aborted	ICS-EPD0230_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA
Edit in Form	EPD0065_4_B07	Raf1	28-05-2010	Genotype confirmed	ICS-EPD0065_...	ICS	ICS	Frozen embryos	Suitable for EMMA
Edit in Form	EPD0270_3_D04	Csnk1a1	21-05-2010	Micro-injection aborted	ICS-EPD0270_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA

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MPI2 - KOMP2 data coord - EBI, Harwell, **WTSI**

iMits production planning / tracking

Everything following: accessible via iMits

Web pages, computer,

IMPC portal (via biomarts) where suitable

Currently:

tracks mouse production

Imminent release: (next week)

Records / reports planning for mouse production

Already running to provide interim reports!



International Mouse Injection Tracking System

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Search & Edit Create Reports

Search for Micro-Injections

Micro-Injection Attempts

Choose a View

Everything	Transfer Details	Litter Details	Chimera Mating Details	QC Details	Summary					
Edit in Form	ES Cell	Marker Sy...	MI Date	Status	Colony Name	Production Centre	Distribution Centre	Disposed Material	EMMA Status	Mo
Edit in Form	EP00177_1_E08	Kcrl15	04-03-2011	Genotype confirmed	ICS-EP00177_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00182_3_E08	D5End7504	02-03-2011	Micro-injection in progress	ICS-EP00182_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEP0037_2_...	Ryfl6	11-03-2011	Micro-injection in progress	ICS-HEP0037_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEP0038_3_...	Aw02b	11-01-2011	Micro-injection in progress	ICS-HEP0038_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEP0037_2_...	Pl03gff	01-12-2010	Micro-injection in progress	ICS-HEP0037_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEP0037_2_...	Pl03gff	26-10-2010	Genotype confirmed	ICS-HEP0037_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	HEP0037_2_...	Hw033	29-09-2010	Micro-injection in progress	ICS-HEP0037_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEP0038_3_...	Pr0m10	28-08-2010	Genotype confirmed	ICS-HEP0038_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP0038_3_A08	Alt0	06-08-2010	Genotype confirmed	ICS-EP0038_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00113_4_F08	Tgfl	21-07-2010	Genotype confirmed	ICS-EP00113_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	HEP0046_1_...	Rc031	19-07-2010	Micro-injection aborted	ICS-HEP0046_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	HEP0046_2_...	Muc2	15-07-2010	Genotype confirmed	ICS-HEP0046_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP0038_2_C02	Rh4	06-07-2010	Micro-injection aborted	ICS-EP0038_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	
Edit in Form	EP0045_4_B07	Rfl	28-05-2010	Genotype confirmed	ICS-EP0045_...	ICS	ICS	Frozen embryos	Suitable for EMMA	
Edit in Form	EP00270_3_D04	Cerk1u1	21-05-2010	Micro-injection aborted	ICS-EP00270_...	ICS	ICS	Frozen embryos	Unsuitable for EMMA	

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MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

IMPC
participants

Planning
production

Tracking
production

Everything
else

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

IMPC
participants

iMits production planning / tracking

IMPC participants



iMits

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Welcome to iMits

What would you like to do today?



Gene Selection / Micro-Injection Planning

Register interest (on behalf of your consortium) in micro-injecting some genes



Search For & Edit Micro-Injection Attempts

Search for an edit data existing micro-injection attempt records



Create Micro-Injection Attempts

Enter data on new micro-injection attempts



Reporting

View reports on all data in iMits



Consortia

View a list of all consortia submitting data to iMits and the production centres that are working as part of these consortia



Users/Production Centres

View a list of all iMits users and the production centre that they belong to

iMits production planning / tracking

IMPC participants



iMits

International Micro-Injection Tracking System

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Welcome to iMits

What would you like to do today?



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MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking



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Consortia Using iMits

This page lists all the Consortia with data in iMits, their funding bodies, and the production centres that have entered micro-injection data for them.

BaSH	
Funding Body	KOMP2
Prod. Centres	BCM

DTCC	
Funding Body	KOMP2
Prod. Centres	DTCC, UCD

DTCC-KOMP	
Funding Body	KOMP
Prod. Centres	UCD

EUComm-EUMODIC	
Funding Body	EUComm / EUMODIC
Prod. Centres	APN, HMGU, ICS, MRC - Harwell, Monterotondo, WTSI

Helmholtz GMC	
Funding Body	Infrafrontier/BMBF
Prod. Centres	

MARC	
Funding Body	China
Prod. Centres	MARC

MGP	
Funding Body	Wellcome Trust
Prod. Centres	WTSI

MGP-KOMP	
Funding Body	KOMP / Wellcome Trust
Prod. Centres	WTSI

MRC	
Funding Body	MRC
Prod. Centres	MRC - Harwell

Monterotondo	
Funding Body	European Union
Prod. Centres	Monterotondo

NorCOMM2	
Funding Body	Genome Canada
Prod. Centres	TCP

Phenomin	
Funding Body	Phenomin
Prod. Centres	ICS

RIKEN BRC	
Funding Body	Japanese government
Prod. Centres	RIKEN BRC

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking



iMits

International Micro-Injection Tracking System

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[Gene Selection](#)

[Search & Edit MI Attempts](#)

[Create MI Attempt](#)

[Reports](#)

Users by Production Centre

TCP

Lauryl Nutter	lauryl.nutter@phenogenomics.ca
---------------	--

UCD

Jared Rapp	jdrapp@ucdavis.edu
------------	--

Monterotondo

Brendan Doe	brendan.doe@ibc.cnr.it
Francesco Chiani	francesco.chiani@emma.cnr.it

BCM

blu@bcm.edu
mjustice@bcm.edu

ICS

birlingm@igbmc.fr
avadi@igbmc.fr
selloum@igbmc.fr

HMGU

Joel Schick	joel.schick@helmholtz-muenchen.de
Michael Hagn	michael.hagn@qsf.de
Roland Friedel	roland.friedel@helmholtz-muenchen.de
Vivek Iyer	vvi@sanger.ac.uk
	s.marschall@qsf.de

MRC - Harwell

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Lydia Teboul	l.teboul@har.mrc.ac.uk
Martin Fray	m.fray@har.mrc.ac.uk
	d.lynch@har.mrc.ac.uk
	a.retha@har.mrc.ac.uk
	j.vowles@har.mrc.ac.uk
	n.adams@har.mrc.ac.uk
	i.johnson@har.mrc.ac.uk
	s.wells@har.mrc.ac.uk
	j.stevenson@har.mrc.ac.uk
	h.gates@har.mrc.ac.uk

WTSI

Alan Bradley	abradley@sanger.ac.uk
Asfand Qazi	aq2@sanger.ac.uk
Bill Skarnes	skarnes@sanger.ac.uk
Darren Oakley	do2@sanger.ac.uk
David Melvin	dgm@sanger.ac.uk
HTGT Data Loading Robot	htgt@sanger.ac.uk
Jacqui White	jkw@sanger.ac.uk
Joanna Bottomley	jb27@sanger.ac.uk
Jody Clements	jc3@sanger.ac.uk
Karen Steel	kps@sanger.ac.uk
Mark Griffiths	mng@sanger.ac.uk
Ramiro Ramirez-Solis	rrs@sanger.ac.uk

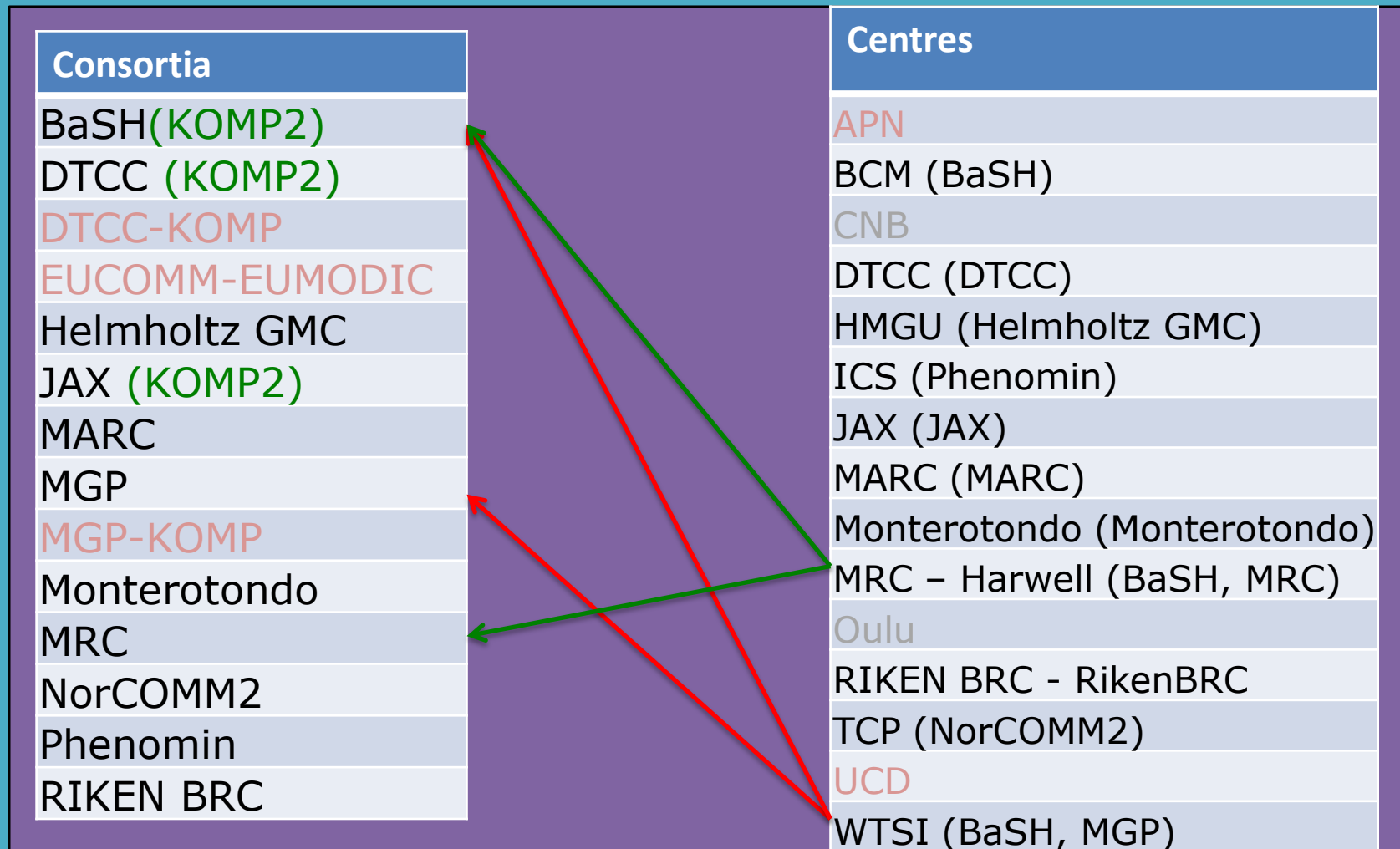
MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

Consortia	Centres
BaSH	APN
DTCC	BCM (BaSH)
DTCC-KOMP	CNB
EUCOMM-EUMODIC	DTCC (DTCC)
Helmholtz GMC	HMGU (Helmholtz GMC)
JAX	ICS (Phenomin)
MARC	JAX (JAX)
MGP	MARC (MARC)
MGP-KOMP	Monterotondo (Monterotondo)
Monterotondo	MRC – Harwell (BaSH, MRC)
MRC	Oulu
NorCOMM2	RIKEN BRC - RikenBRC
Phenomin	TCP (NorCOMM2)
RIKEN BRC	UCD
	WTSI (BaSH, MGP)

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking



MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

Consortia

BaSH(KOMP2)

DTCC (KOMP2)

DTCC-KOMP

EUCOMM-EUMODIC

Helmholtz GMC

JAX (KOMP2)

MARC

MGP

MGP-KOMP

Monterotondo

MRC

NorCOMM2

Phenomin

RIKEN BRC

30 users

...

relationship
with users
from MARC
and Riken?

WTSI (BaSH, MGP)

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

11 consortia
11 prod cntrs

Planning
production

Tracking
production

Everything
else

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

Planning production

iMits production planning / tracking

Planning production

1. Big gene list: IKMC (MGI)
2. Append with all known Mis / Mice
3. Add Expressions of interest from all consortia ...

iMits production planning / tracking

Planning production

1. Big gene list: IKMC (MGI)
2. Append with all known Mis / Mice
3. Add Expressions of interest from all consortia ...
4. Sit back and watch the sparks fly

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11					
		Arhgap27					
UCD GLT		C4bp					
		Aldh3b1					

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
Products, etc		Anapc11					
		Arhgap27					
		C4bp					
		Aldh3b1					
Consortia							

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11	Interest		Interest		
		Arhgap27	Interest			Interest	
UCD GLT		C4bp		Interest			
		Aldh3b1	Interest				

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11	Interest		Interest		
WAIT for <i>x</i> months Resolution time							
UCD G							
		Aldh3b1	Interest				

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11	Conflict		Conflict		
		Arhgap27	Conflict			Conflict	
UCD GLT		C4bp		Declind: GLT Mouse			
		Aldh3b1	Assignd				

MPI2 - KOMP2 data coord - FBI Harwell WTSI							
Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11	Conflict		Conflict		
		Arhgap27	Conf				
UCD GLT		C4bp		Declind: GLT Mouse			
		Aldh3b1	Assignd				

Chat / call

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11	Conflict		Conflict		
		Arhgap27	Conflict			Conflict	
UCD GLT		C4bp		Declind: GLT Mouse			
		Aldh3b1	Assignd				



MPI2 - KOMP2 data coord - FBI Harwell *W/TSI*

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11	Conflict		Conflict		
		Arhgap27	Conflict			Conflict	
UCD GLT		C4bp		Declind: GLT Mouse			
		Aldh3b1	Assignd	Go for it			

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11	Conflict		Conflict		
UCD GLT							
		Aldh3b1	Assignd				

Mechanics of conflict resolution are being developed

iMits production planning / tracking

Planning production

iMits production planning / tracking

Planning production

MPI2 - KOMP2 data coord - EBI, Harwell, **WTSI**

iMits production planning / tracking

Planning production

All actions / reports are inside iMits

iMits production planning / tracking

Planning production



iMits

International Micro-Injection Tracking System

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Gene Selection / Micro-Injection Planning

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iMits production planning / tracking

Planning production



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Register Interest in Micro-Injecting Genes

▼ Filter Genes

Marker Symbol or MGI Accession ID:

Art4
Cbx1

MIs for Consortium:

MIs at Production Centre:

| [Clear](#)

Please Select the Genes You Would Like to Register Interest In

Consortium: Production Centre: Priority: [+ Register Interest](#)

☐	Gene	# IKMC Projects	# Clones	Non-Assigned MIs	Assigned MIs	Aborted MIs	MIs in Progress	GLT Mice
☐	Art4	3	11 Conditional1...			[MGP-KOMP:WTSI:1]		
☐	Cbx1	4	14 Conditional9...	[BaSH:BCM:Interest]				[EUComm-EUMODIC:WTSI:1]

iMits production planning / tracking

Planning production



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Planned Micro-Injection Summary and Conflicts

Include Plans with Active MI Attempts?

yes

CSV Download?

yes ☐ no ☒

[Generate Report](#)

Genes in Planned Micro-Injection Statuses

Consortium	Interest	Conflict	Declined - GLT Mouse	Declined - MI Attempt	Declined - Conflict	Assigned	TOTAL BY CONSORTIUM
BaSH	0	15	2	11	23	221	272
DTCC	0	0	0	0	0	400	400
Helmholtz GMC	0	7	10	16	9	57	99
JAX	0	20	28	25	16	207	296
MARC	0	5	4	5	8	42	64
MGP	0	11	2	11	14	127	165
MRC	0	19	4	9	16	156	204
Monterotondo	0	8	4	3	2	31	48
NorCOMM2	0	10	3	1	10	96	120
Phenomin	0	9	2	2	1	80	94
RIKEN BRC	0	3	2	4	5	35	49
TOTAL BY STATUS	0	51	57	81	100	1234	1687

iMits production planning / tracking

Planning production



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Conflicting Micro-Injection Plans

Consortium	Production Centre	Marker Symbol	MGI Accession ID	Priority	Reason for Conflict
BaSH		Amz2	MGI:104837	Medium	Other MI plans for: MGP
BaSH		Anapc11	MGI:1913406	Medium	Other MI plans for: JAX
BaSH		Arhgap27	MGI:1916903	Low	Other MI plans for: Phenomin

iMits production planning / tracking

11 consortia
11 prod cntrs

IMPC planned genes
1687 Total
1234 OK
51 Chat
238 Look

Tracking
production

Everything
else

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

Tracking production

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

Tracking production

Mouse Line

STATUS

iMits production planning / tracking

Tracking production

We store **nuggets** of data on the mouse line

We *infer* the **status** and **change date**

iMits production planning / tracking

Tracking production

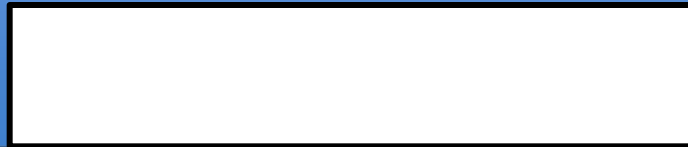
EPD
Mi date

Male
Chimeras

tm1a
QC test1
QC test2
...

Cre
crosses

Tm1b
QC test1
QC test1



iMits production planning / tracking

Tracking production

EPD
Mi date

Male
Chimeras

tm1a
QC test1
QC test2
...

Cre
crosses

Tm1b
QC test1
QC test1

11-Dec-2011 MI Plan Assigned

iMits production planning / tracking

Tracking production

EPD

Mi date

EPD123

11 Jan 2012

Male
Chimeras

tm1a
QC test1
QC test2

...

Cre
crosses

Tm1b
QC test1
QC test1

11-Jan-2012 MI In progress

iMits production planning / tracking

Tracking production

EPD

Mi date

EPD123

11 Jan 2012

Male
Chimera

4

tm1a
QC test1
QC test2

...

Cre
crosses

Tm1b
QC test1
QC test1

12-Mar-2012 Chimeras obtnd

iMits production planning / tracking

Tracking production

EPD
Mi date
EPD123
11 Jan 2012

Male
Chimera
4

Tm1a
Test1 pass
Test2 pass
...

Cre
crosses

Tm1b
QC test1
QC test1

12-Apr-2012 Genotype Cfmd

iMits production planning / tracking

Tracking production

EPD
Mi date
EPD123
11 Jan 2012

Male
Chimera
4

Tm1a
Test1 pass
Test2 pass
...

Cre
crosses
5

Tm1b
QC test1
QC test1

12-May-2012 Cre exc starts

iMits production planning / tracking

Tracking production

EPD
Mi date
EPD123
11 Jan 2012

Male
Chimera
4

Tm1a
Test1 pass
Test2 pass
...

Cre
crosses
5

Tm1b
Test1
pass
Test1
pass

12-Jun-2012 Mod allele confd

iMits production planning / tracking

Tracking production

EPD
Mi date
EPD123
11 Jan 2012

Male
Chimera
4

Tm1a
Test1 pass
Test2 pass
...

Cre
crosses
5

Tm1b
Test1
pass
Test1
pass

...

12-Jul-2012 Mod allele confd

iMits production planning / tracking

Tracking production

Prod centre	Colony name	To MI started	To Chimera	To tm1a Confirm	To Creexc start	To tm1b confirm
WTSI	MAAH	1 mth	1mth	2 mth	1 mth	2 mth
BCM	BCM-EPD123	2 mth	1 mth	1 mth	3 mth	1 mth
WTSI	MBBL	1mth	6mth			

iMits production planning / tracking

Tracking production

Prod centre	Colony name	To MI started	To Chimera	To tm1a Confirm	To Creexc start	To tm1b confirm
WTSI	MAAH	1 mth	1mth	2 mth	1 mth	2 mth
BCM	BCM-EPD123	2 mth	1 mth	1 mth	3 mth	1 mth
WTSI	MBBL	1mth	6mth			

iMits production planning / tracking

Tracking production



iMits

International Micro-Injection Tracking System

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► *Search for Micro-Injections*

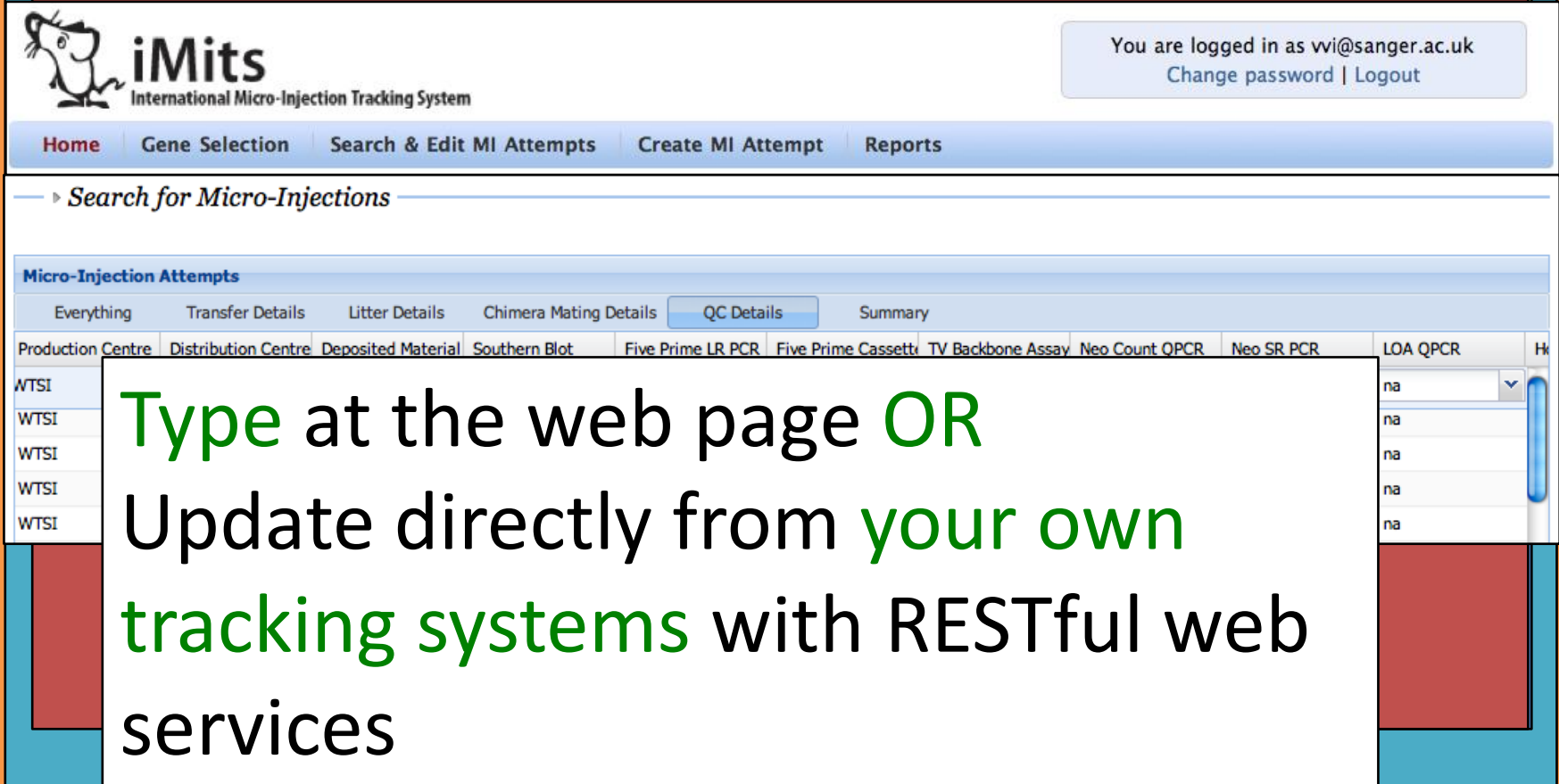
Micro-Injection Attempts

Everything Transfer Details Litter Details Chimera Mating Details QC Details Summary										
Production Centre	Distribution Centre	Deposited Material	Southern Blot	Five Prime LR PCR	Five Prime Cassette	TV Backbone Assay	Neo Count QPCR	Neo SR PCR	LOA QPCR	Hi
WTSI	WTSI	Frozen embryos		na	na	na	na	na	na	
WTSI	WTSI	Frozen embryos				na	na	na	na	
WTSI	WTSI	Frozen embryos				na	na	na	na	
WTSI	WTSI	Frozen embryos		na	na	na	na	na	na	
WTSI	WTSI	Frozen embryos		na	na	na	na	na	na	

MPI2 - KOMP2 data coord - EBI, Harwell, **WTSI**

iMits production planning / tracking

Tracking production



The screenshot shows the iMits web application interface. At the top, there is a logo for iMits (International Micro-Injection Tracking System) and a user login status: "You are logged in as vvi@sanger.ac.uk" with links for "Change password" and "Logout". Below the header is a navigation bar with links: "Home", "Gene Selection", "Search & Edit MI Attempts", "Create MI Attempt", and "Reports". The main content area is titled "Search for Micro-Injections" and displays a table of "Micro-Injection Attempts". The table has tabs for "Everything", "Transfer Details", "Litter Details", "Chimera Mating Details", "QC Details" (selected), and "Summary". The table columns include "Production Centre", "Distribution Centre", "Deposited Material", "Southern Blot", "Five Prime LR PCR", "Five Prime Cassette", "TV Backbone Assay", "Neo Count QPCR", "Neo SR PCR", "LOA QPCR", and "H". The table shows five rows of data, all with "WTSI" in the "Production Centre" column and "na" in the "LOA QPCR" column. A large text overlay is present on the right side of the table, stating: "Type at the web page OR Update directly from your own tracking systems with RESTful web services".

Type at the web page OR
Update directly from your own
tracking systems with RESTful web
services

iMits production planning / tracking

Tracking production



iMits

International Micro-Injection Tracking System

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[Home](#)

[Gene Selection](#)

[Search & Edit MI Attempts](#)

[Create MI Attempt](#)

[Reports](#)

EUCOMM Mouse production

Production Centre	# Genes Injected	# Genes Genotype Confirmed
HMGU	217	71
ICS	174	114
MRC - Harwell	296	120
Monterotondo	186	92
WTSI	692	307

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

Tracking production

**iMits**

International Micro-Injection Tracking System

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WTSI

Month Injected	# Clones Injected	# at Birth	% of Injected (at Birth)	# at Weaning	# Clones Genotype Confirmed	% Clones Genotype Confirmed
2011-08	28	0	0	0	0	0
2011-07	32	0	0	0	0	0
2011-06	51	33	65	15	0	0
2011-05	42	42	100	33	0	0
2011-04	23	23	100	21	2	9
2011-03	47	46	98	21	5	11
2011-02	38	38	100	18	3	8
2011-01	41	41	100	35	11	27
2010-12	29	29	100	26	6	21
2010-11	24	24	100	20	5	21
2010-10	24	23	96	22	10	42
2010-09	16	16	100	16	6	38
2010-08	13	13	100	13	3	23

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

iMits production planning / tracking

11 consortia
11 prod cntrs

IMPC planned genes

1687 Total
1234 OK
51 Chat
238 Look

GLT Mice (EUCOMM)
307 WTSI
92 CNR
120 MRC Harwell
114 ICS
71 HMGU

Everything
else

Everything else

Everything else

KOMP2 - IMPC

iMits:
Plans
Tracking
QC

Everything else

IDCC - IKMC

KOMP2 - IMPC

Targrep
ES Cells
Molecular
structure
QC

iMits:
Plans
Tracking
QC

Everything else

IDCC - IKMC

KOMP2 - IMPC

Targrep
ES Cells
Molecular
structure
QC

Es cell
ids

iMits:
Plans
Tracking
QC

Everything else

IDCC - IKMC

KOMP2 - IMPC

Targrep
ES Cells
Molecular
structure
QC

Es cell
ids

iMits:
Plans
Tracking
QC

DCCDB
Phenotypes
QC
Analysis

Everything else

IDCC - IKMC

KOMP2 - IMPC

Targrep
ES Cells
Molecular
structure
QC

Es cell
ids

iMits:
Plans
Tracking
QC

Mouse
Line IDs

DCCDB
Phenotypes
QC
Analysis

Everything else

IDCC - IKMC

KOMP2 - IMPC

Targrep
ES Cells
Molecular
structure

QC

Es cell
ids

iMits:
Plans
Tracking

QC

Mouse
Line IDs

DCCDB
Phenotypes
QC
Analysis

QC integration

Everything else

IDCC - IKMC

KOMP2 - IMPC

Targrep
ES Cells
Molecular
structure

QC

Es cell
ids

iMits:
Plans
Tracking

QC

Mouse
Line IDs

DCCDB
Phenotypes
QC
Analysis

QC integration

Reporting allele structure: IKMC project pages

Everything else

IDCC - IKMC

KOMP2 - IMPC

Targrep
ES Cells
Molecular
structure

QC

Es cell
ids

iMits:
Plans
Tracking

QC

Mouse
Line IDs

DCCDB
Phenotypes
QC
Analysis

QC integration

IKMC Martsearch Portal

Everything else

IDCC - IKMC

KOMP2 - IMPC

Targrep
ES Cells
Molecular
structure

QC

Es cell
ids

iMits:
Plans
Tracking

QC

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Line IDs

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QC
Analysis

IMPC Portal?

MPI2 - KOMP2 data coord - EBI, Harwell, *WTSI*

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114 ICS
71 HMGU

Targrep
iMits
DCCDB

Acknowledgements

- KOMP2 data coord
 - Bill Skarnes, Paul Flicek, Helen Parkinson, Ann-Marie Mallon, Dave Melvin
- **T87 Development (EU – IDCC grant) for the IKMC**
 - **Darren Oakley**
 - **AsfandQazi**
- IDCC collaborators
 - Martin Ringwald, Jeremy Mason
 - Damian Smedley (EMMA)
- External Collaborators
 - Jared Rapp (UCD)



ISSUE 0

- Users
 - Operating at “arm’s length” from a few consortia
 - MARC
 - Riken BRC
 - We need to be put in touch with people putting data into the system.
 - Ex - EUCOMM partners EASY
 - Action: can I get operational contacts *at this meeting?*

ISSUE 1

- How to *record* that group has “backed off”
 - Clean data,
 - V_s
 - Record of prior interest

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
		Anapc11	Conflict		Conflict		
		Arhgap27	Conflict			Conflict	
UCD GLT		C4bp		Declind: GLT Mouse			
		Aldh3b1	Assignd				

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
				?			
		Anapc11	Declind -conflict		Assignd		
		Arhgap27	Conflict			Conflict	
UCD GLT		C4bp		Declind: GLT Mouse			
		Aldh3b1	Assignd				

Mice	Mis	Gene	BaSH	Helm	JAX	Phenomin	Etc ...
				?			
		Anapc11			Assignd		
		Arhgap27	Conflict			Conflict	
UCD GLT		C4bp		Declind: GLT Mouse			
		Aldh3b1	Assignd				

ISSUE 1

- Very messy right now
- Data changing
- Process is being revised

ISSUE 1

Suggestion:

Take the existing gene lists / allocations as indications, subject to some change

Wait till the draft system emerges (late next week)

LOOK AROUND THE SYSTEM

Talk to us

ISSUE 2

- Mouse line statuses *after* tm1a
 - Modified allele creation
 - Phenotyping milestones
 - Data nuggets per transition

EPD
Mi date
EPD123
11 Jan 2012

Male
Chimera
4

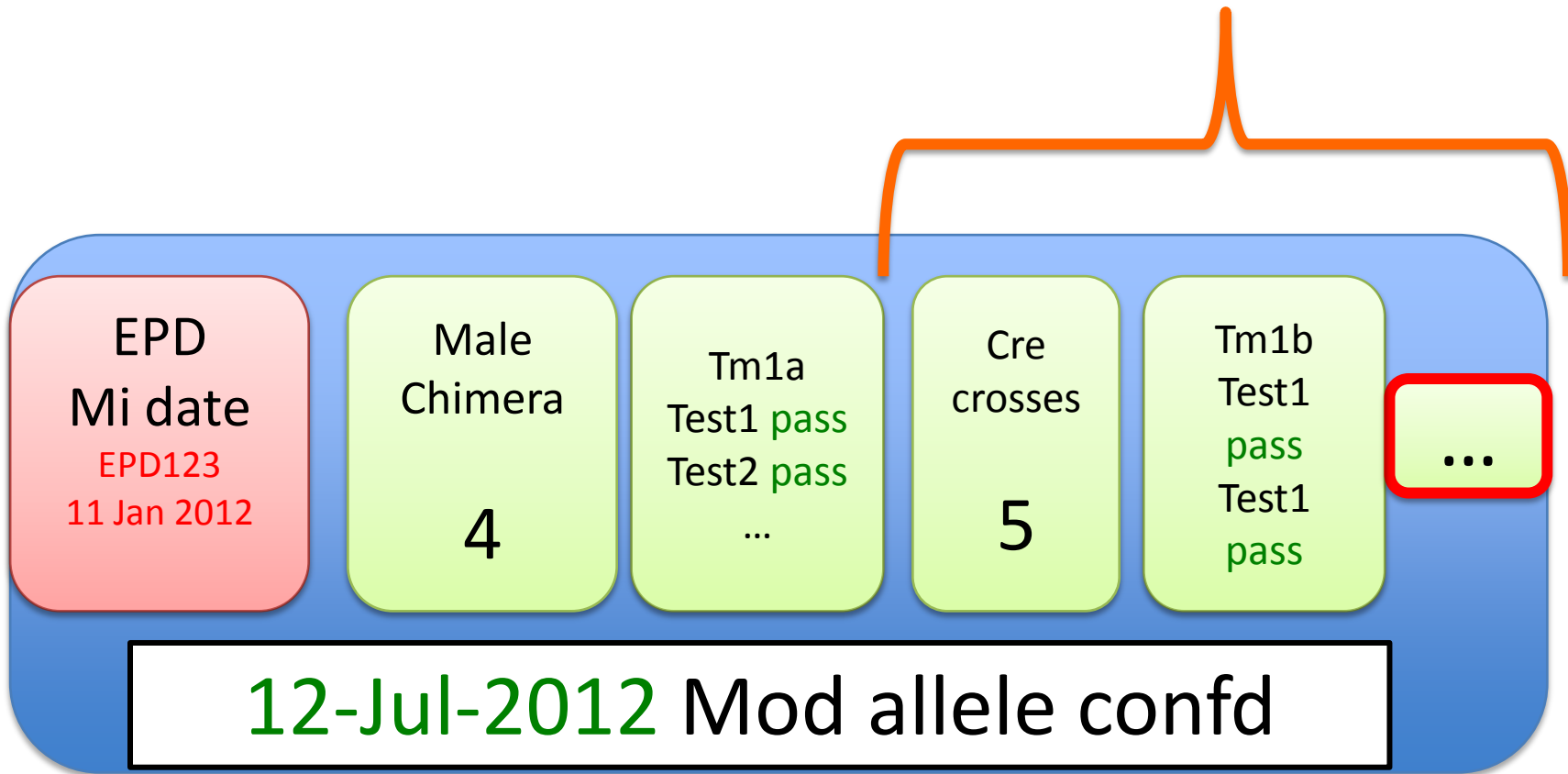
Tm1a
Test1 pass
Test2 pass
...

Cre
crosses
5

Tm1b
Test1
pass
Test1
pass

...

12-Jul-2012 Mod allele confd



ISSUE 2

- Action
 - We are preparing a list of statuses / data internally
 - We will forward to each production centre shortly