



Running a large scale animal facility

MRC | Harwell

Mary Lyon Centre



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- Facts and staffing
- Science
- The building, barrier and accommodation
- Environmental controls and Saving energy
- Training
- Data
- Welfare
- Quality





Just the facts

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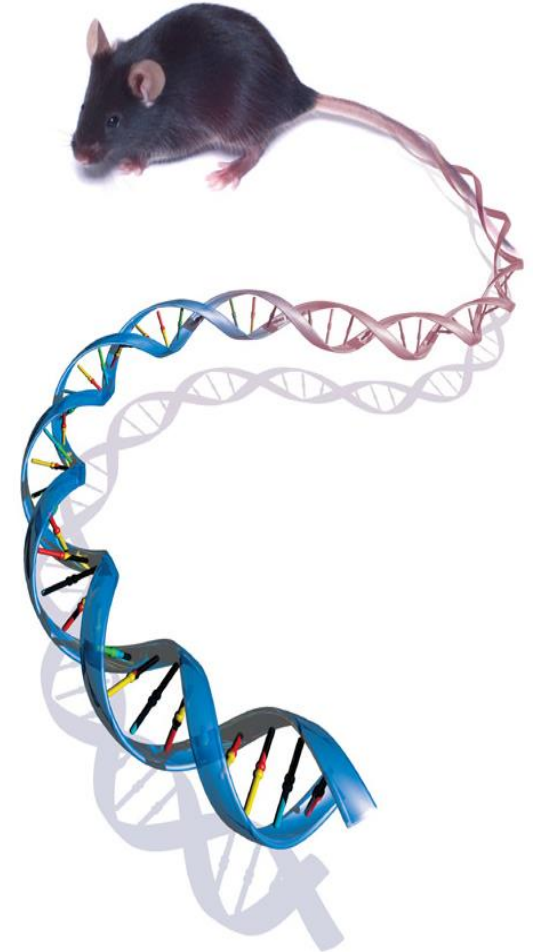
- 52,000 Mice
- 4015 sqm

MLC

- 4 Ward Managers, 1 Supervisor
- 2 Resource Managers
- 23 F/T, 12 P/T Animal Technicians
- 11 F/T, 1 P/T Maintenance Staff

Quarantine

- 1 Manager
- 3 F/T Animal Technicians
- 1 Maintenance Staff





Scientific Groups at Harwell

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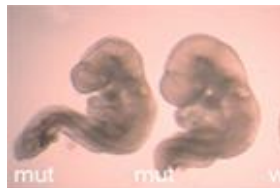
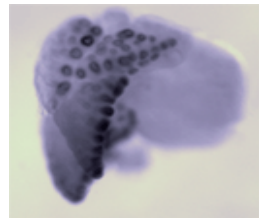
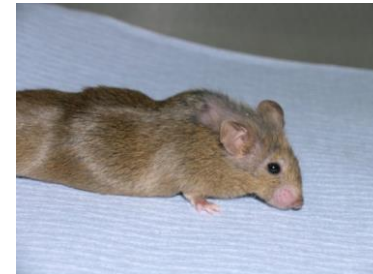
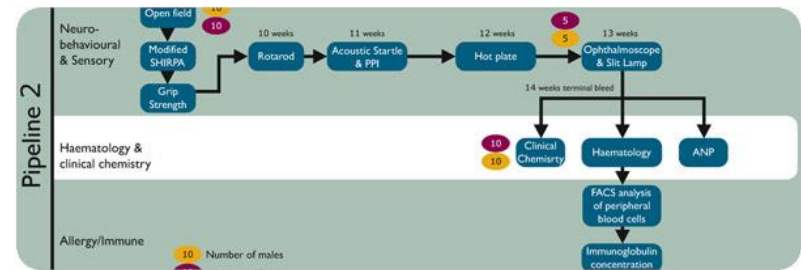
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Embryo development

Diabetes and Kidney disease

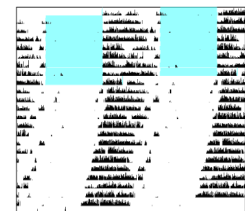
Deafness and Biological clocks

Ageing and Disease discovery



CIRCAD4 (sib of circad5)

TYPICAL WILDTYPE





- International Phenotyping Consortium (IMPC)



- Other External collaboration



Types of test

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Observation

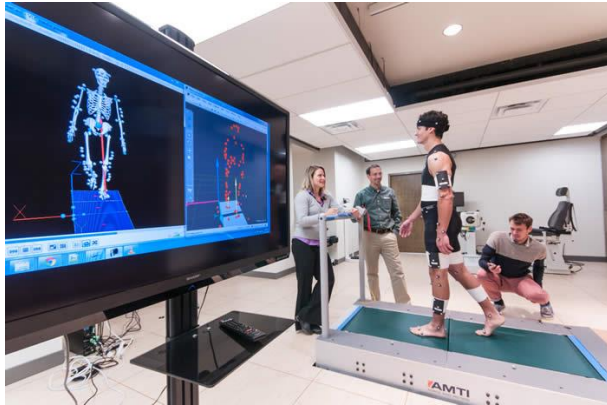


Blood Tests

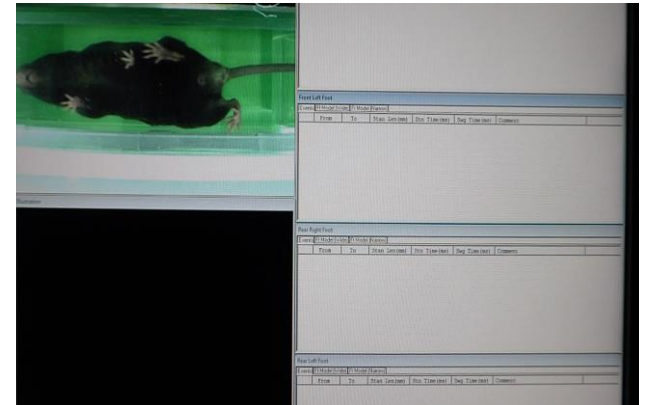




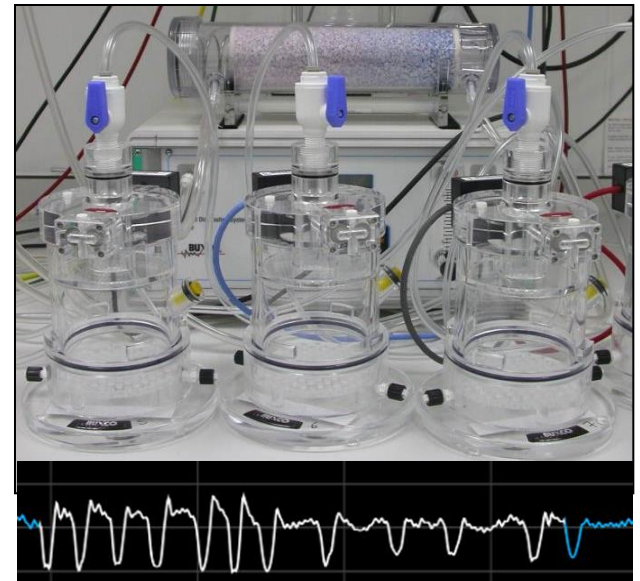
Types of test



Gait analysis



Lung function

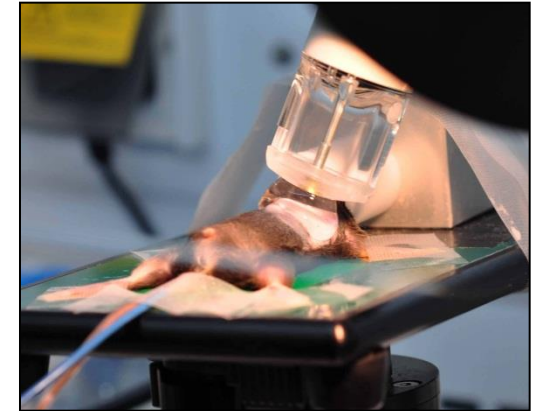
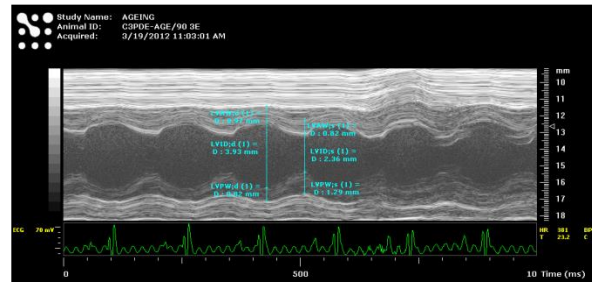




Types of test



Echocardiograph



X-rays





Entry to the Mary Lyon Centre

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- 48 hours barrier
- Staff cannot keep rodents as pets
- Full change of clothing, except underwear
- Shower on entry for some areas
- Hand washing
- Air showers
- Additional PPE, mob cap, over suit, beard guard





Access to the mice



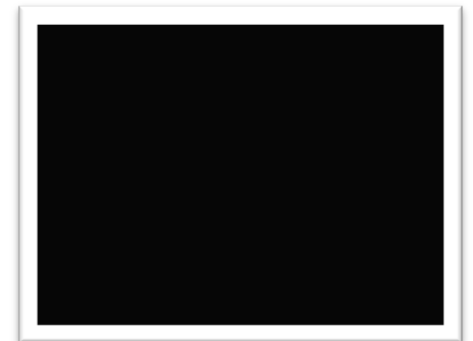
Entering a ward



Access to the Mice



Mouse Accommodation





Daily checks

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**Bank
Holidays**

Xmas



Weekends

**Privilege
holidays**



+



+

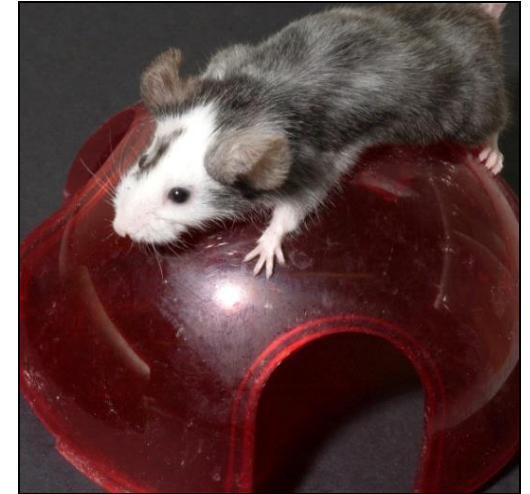




Environmental Enrichment

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Dedicated maintenance team

- 10,500 Cages and 15,000 bottles processed weekly
- Unit cleanliness
- Equipment / consumables management
- ATP monitor

CONTROL DUST CONTROL DISEASE



Illustration: Don Smith

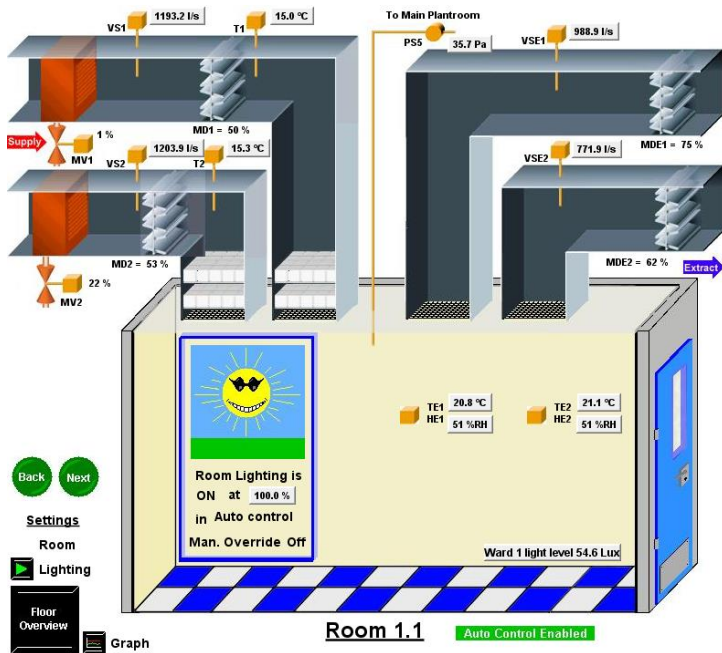




Environmental Controls

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24hr 365 day
computer
monitoring

24hr 365 day
engineering cover

24hr 365 MLC
Manager cover



- Run around coils
- Jockey compressors
- Trend Energy Manager
- AHU unit condense reclaim
- New efficient chillers

Future

- Biomass burner
- LED lighting
- RO water for boilers





It's all about the mice





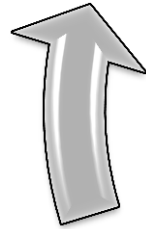
**Re-
Assessment,
Audit,
Document**

Review



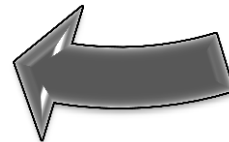
Plan

**SOP,
Training
program**



**Competency
Assessment,
Document**

Check



Do

**Nominated
Trainers,
Document**



AnonyMus LIMS

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Mr Mark Gardiner
[Working on Non-licenced procedures](#)

[Logout](#) | [Change password](#) | [Email](#)

[Cart Empty](#) | [Get popup report...](#)

- ANONYMUS
 - Home - Welcome
 - Reports
 - Background Tasks
 - Completed Genotyping
- ANIMAL MANAGEMENT
 - User Barcodes
 - HUSBANDRY
 - MATING
 - Standard Mating Entry
 - Modify Mating
 - Modify Multiple Matings
 - End Mating
 - End Multiple Matings
 - Travel Animal
 - Comments
 - Plus Checks
 - Change Mating Stockcode
 - LITTER
 - WEANING
 - INDIVIDUAL
 - PEDIGREE CHARTS
 - MICROCHIPPING
 - REPORTS
 - Pop-Up Reports
 - Husbandry Report
 - List by StockCode
 - List by Location
 - Weight Sheets
 - Auto Reporting
- HOME OFFICE
 - PROCEDURES
 - Record Procedure Book
 - Review Procedure Book
 - Add Adverse Effect Comment
 - Personal Competency Register
 - DELEGATION
- GENOTYPE MANAGEMENT
- SAMPLE MANAGEMENT
- TISSUE STORAGE
- WELFARE
 - Add Welfare
- FACILITY ADMINISTRATION
- FESA
- MICRO-INJECTION
- REQUESTS
- ANONYMUS SETTINGS

Welcome Mark

Welcome to AnonyMus version 2.10 © 2016 (Release Date : Aug 18 2016)

Please ensure that you use this database for genuine data entry only

Main updates in this release include:

- BRG
 - Auto-positioning in Cryo samples (replaces browse archive drag and drop)
 - Companion animals added to embryo transfer cage cards
 - Delete comment bug fix in IVF dispersion
- Histopathology
 - New histopathology report to search studies by stock code
- Home office licencing
 - Transfer PPL caching bug fix
- Phenotyping
 - Prevents X-Ray file loading from automatically annotating animals with default values





External Quality Program

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ISO 9001:2008 certificated since
July 2013



Accredited July 2016



Finally.....





Special Thanks

MRC | Harwell

Mary Lyon Centre

- The MLC Team
- Engineering and Estates
- The Ward and Resource Managers
- Director





Any Questions?

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