The Harwell Frozen embryo and sperm archive (FESA)

https://www.neurodegenerationresearch.eu/survey/the-harwell-frozen-embryo-and-sperm-archive-fesa/

Name of resource

The Harwell Frozen embryo and sperm archive (FESA)

Name of Principal Investigator

Title	Dr
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Summary

The MRC’s frozen embryo and sperm archive holds a collection of mouse models of human disease that are distributed to the wider scientific community. We also hold some mouse models that have been frozen for our own researchers that are not available to the community.

1a. The resource holds animal models relevant to the study of the following neurodegenerative diseases

Motor neurone diseases
Prion disease
Huntington’s disease
Neurodegenerative disease in general
Parkinson’s disease
Spinocerebellar ataxia (SCA)
Spinal muscular atrophy (SMA)

1b. The resource holds:

Animals
Frozen embryos
Frozen sperm

2a. The resource acts as a centre for access and distribution to external groups (who are not the PIs of the resource)

2b. Procedures and rules for access
Access independent of collaboration with PI
Local/ regional access
National access
International access
Access to industry
Charge for retrieval
3a. Does the resource develop animal models for external groups

1

3b. Types of models provided
Not applicable
4a This activity is supported as:
Independent of collaboration
4b. The supplied material deposited in a central repository

2

5a Disease models available

Disease	Species	Available to external user (Y/N)	Full phenotypic character (Y/N or partial)	Phenotypes	Genotypes or other subtypes
HD	Mouse	N	Partial	Short life span/tremors	Hets
Prion	Mouse	Y	Y	Suceptibility to disease	Hets/Homs
SMA	Mouse	Y	Partial	Neuropathology	Homs
PD	Mouse	Y	Partial	Olfactory memory and motor control	Het
MND	Mouse	Y	Y	Mice show dystrophic changes in mucscle histopathology	Hets/Homs

5b. Other models/phenotypes available through the resource relevant to neurodegenerative conditions

No. of models	Available to external users	Full phenotypic characterisation available (Y/N or partial)	Nature of phenotype
Low grip strength	3	Y	Partial
2	Y	Partial	Memory deficit
2	Y	Partial	Muscle tremors
Numerous	Y	Partial	Various phenotypes

6. European or international consortia or networks to which the resource is linked

Jackson Laboratories, USAInternational mouse knockout consortium

European Mutant Mouse Archive

International Mouse Knockout Consortium

7a. Maintenance of the resource is dependent on continued funding

1

7b. End date of current funding period

N/A

7c. Expected lifespan of the resource (in years)

1000

7d. Other plans affecting future use

FESA is a core funded MRC resource but it is also supported in part by the funds we receive from the EU through our membership of the EMMA consortium. The current EMMA grant will come to an end Dec 2012.