NIA resources to support pre-translational and translational research

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Migraines with Aura in Middle Age Associated with Late-Life Brain Lesions
June 23, 2009 -- Women who suffer from migraine headaches in middle age accompanied by neurological aura (visual disturbances, dizziness or numbness that can precede migraines) are more likely to have damage to brain tissue in the cerebellum later in life, according to a recent study.
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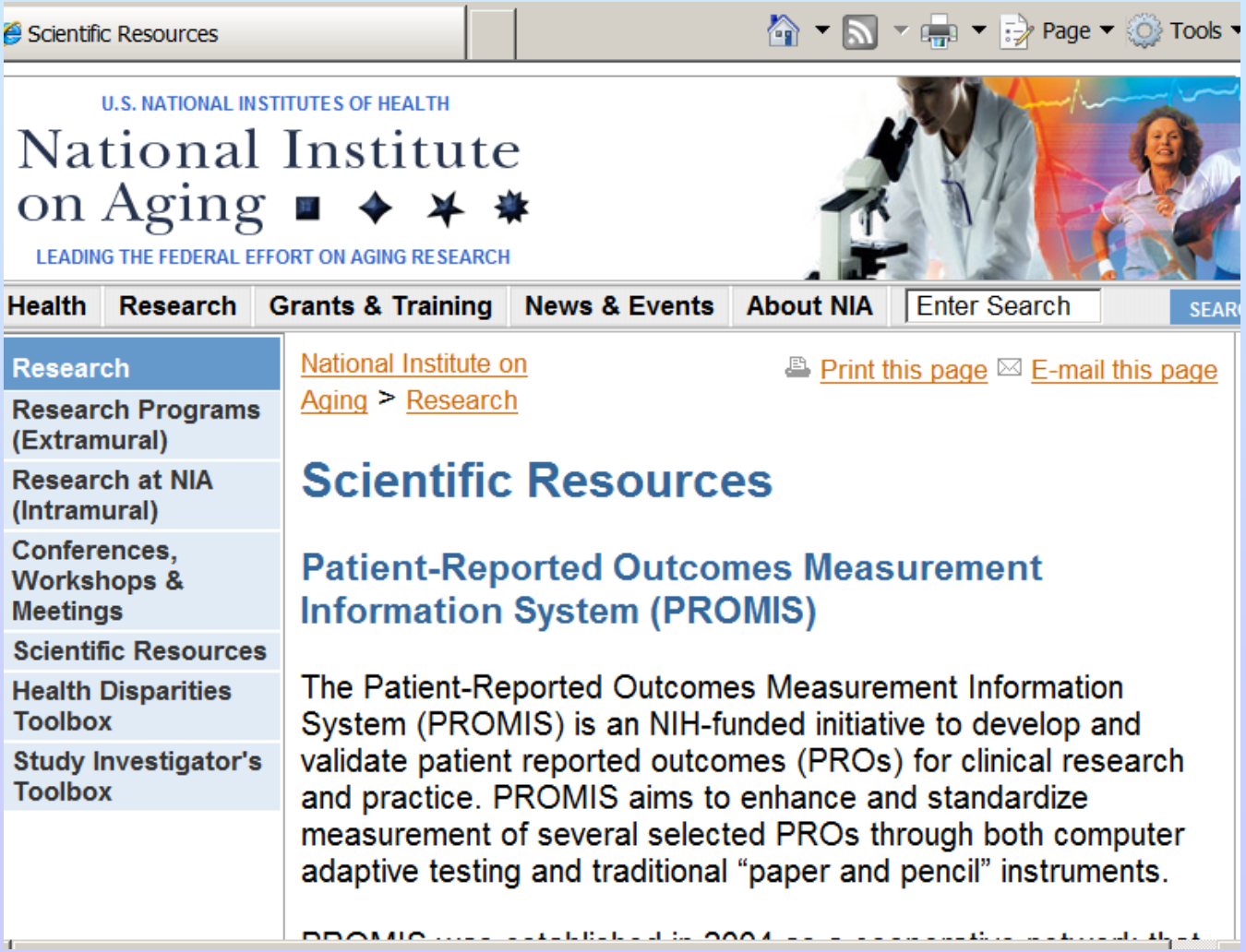

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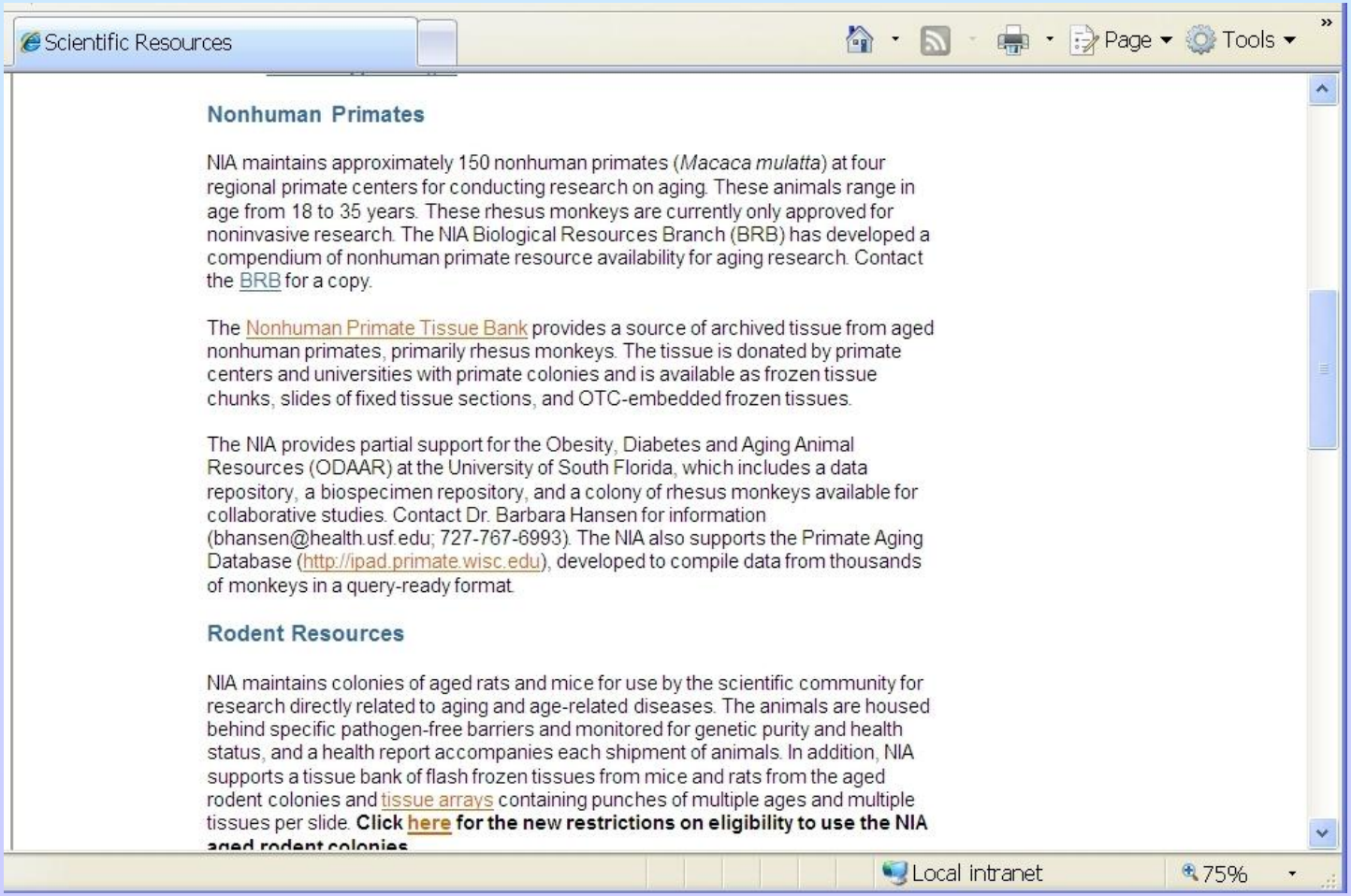


Rodent Resources

Aged rodent colonies

Mice (C57BL6, BALB/cBy, CBA, DBA/2, CB6F1, B6D2F1)

Rats (F344, BN and F344BN F1)

Caloric restricted rodent colony

C57BL/6, B6D2F1, F344, F344BN F1

Mutant mouse aging colony

Ames Dwarf, Snell Dwarf, GFP reporter, α-synuclein Tg

Aged Rodent Tissue Bank:

– Several strains from the aged rodent colonies, caloric restricted colony, and
Ames Dwarf mice

– 20 tissues plus serum, flash frozen

– Special collections

Tissue Arrays:

– F344BN F1 and C57BL/6 – 12 tissues X 5 ages

– caloric restricted and ad lib C57BL/6 -12 tissues, 4, 16 and 24 mo. AL plus 16 and 24 mo. CR)

NIA supports set-aside of aged rhesus monkeys at four NPRC:

Wisconsin – in-house use, predominantly non-invasive

Contact : Joe Kemnitz, kemnitz@primate.wisc.edu

Oregon – in-house use, predominantly non-invasive

Contact: Steve Kohama, kohamas@ohsu.edu

California – in-house use, predominantly non-invasive

Contact:: Nick Lerche, nwlerche@ucdavis.edu

Tulane – for purchase and transfer to NIA grantees home institution

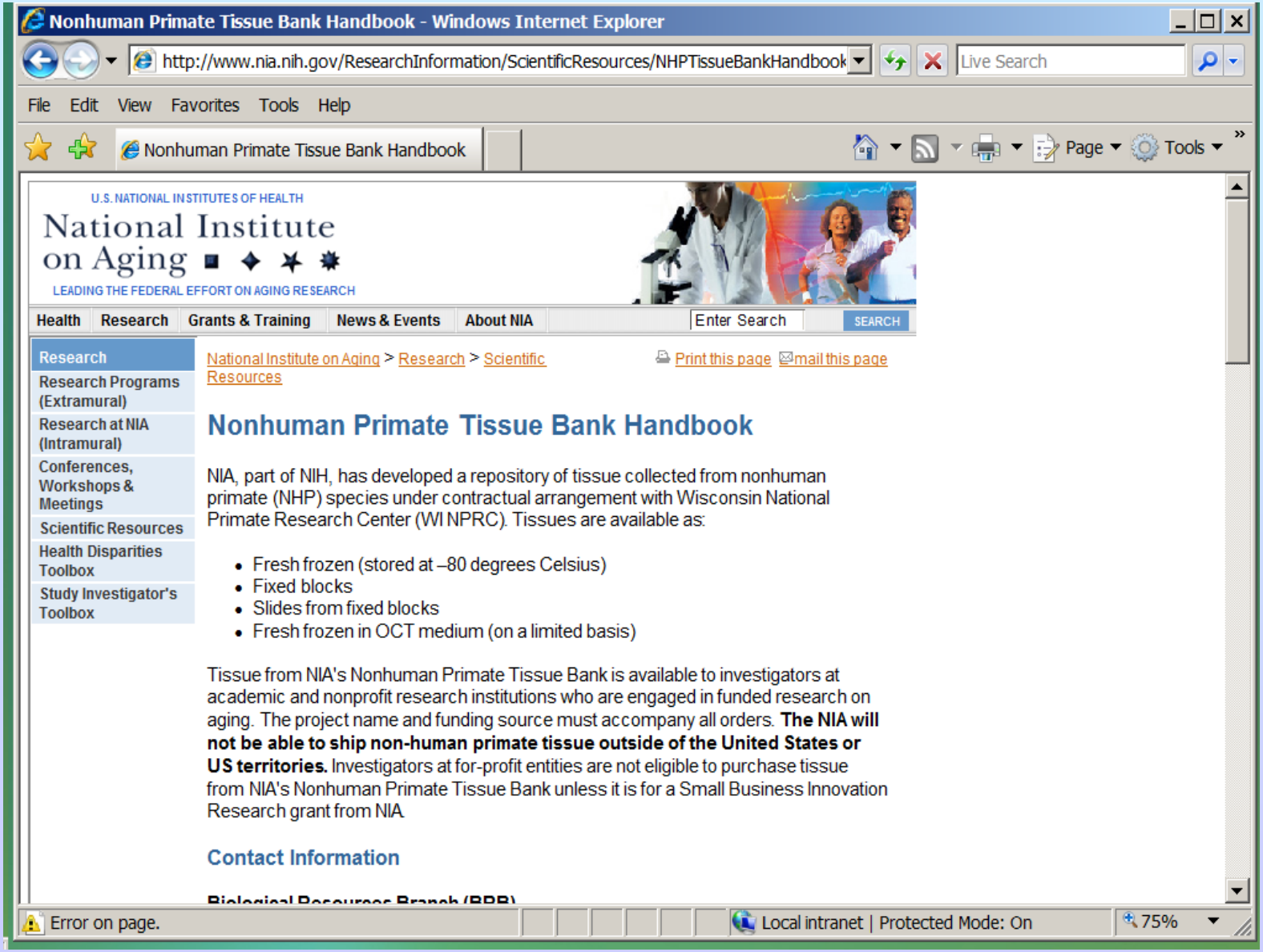
Contact the NIA, nadonn@nia.nih.gov

NIA resources

NHP tissue bank (WI NPRC)

- Fresh frozen and fixed tissue donated by primate centers and laboratories

http://www.nia.nih.gov/ResearchInformation/ScientificResources/NHPTissueBankHandbook.htm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Nonhuman Primate Tissue Bank Handbook
NIA, part of NIH, has developed a repository of tissue collected from nonhuman primate (NHP) species under contractual arrangement with Wisconsin National Primate Research Center (WI NPRC). Tissues are available as:
Fresh frozen (stored at –80 degrees Celsius)
Fixed blocks
Slides from fixed blocks
Fresh frozen in OCT medium (on a limited basis)
Tissue from NIA's Nonhuman Primate Tissue Bank is available to investigators at academic and nonprofit research institutions who are engaged in funded research on aging. The project name and funding source must accompany all orders. The NIA will not be able to ship non-human primate tissue outside of the United States or US territories. Investigators at for-profit entities are not eligible to purchase tissue from NIA's Nonhuman Primate Tissue Bank unless it is for a Small Business Innovation Research grant from NIA
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NIA Resources

Primate Aging Database (WI NPRC)

-data provided by primate centers and investigators

- http://ipad.primate.wisc.edu

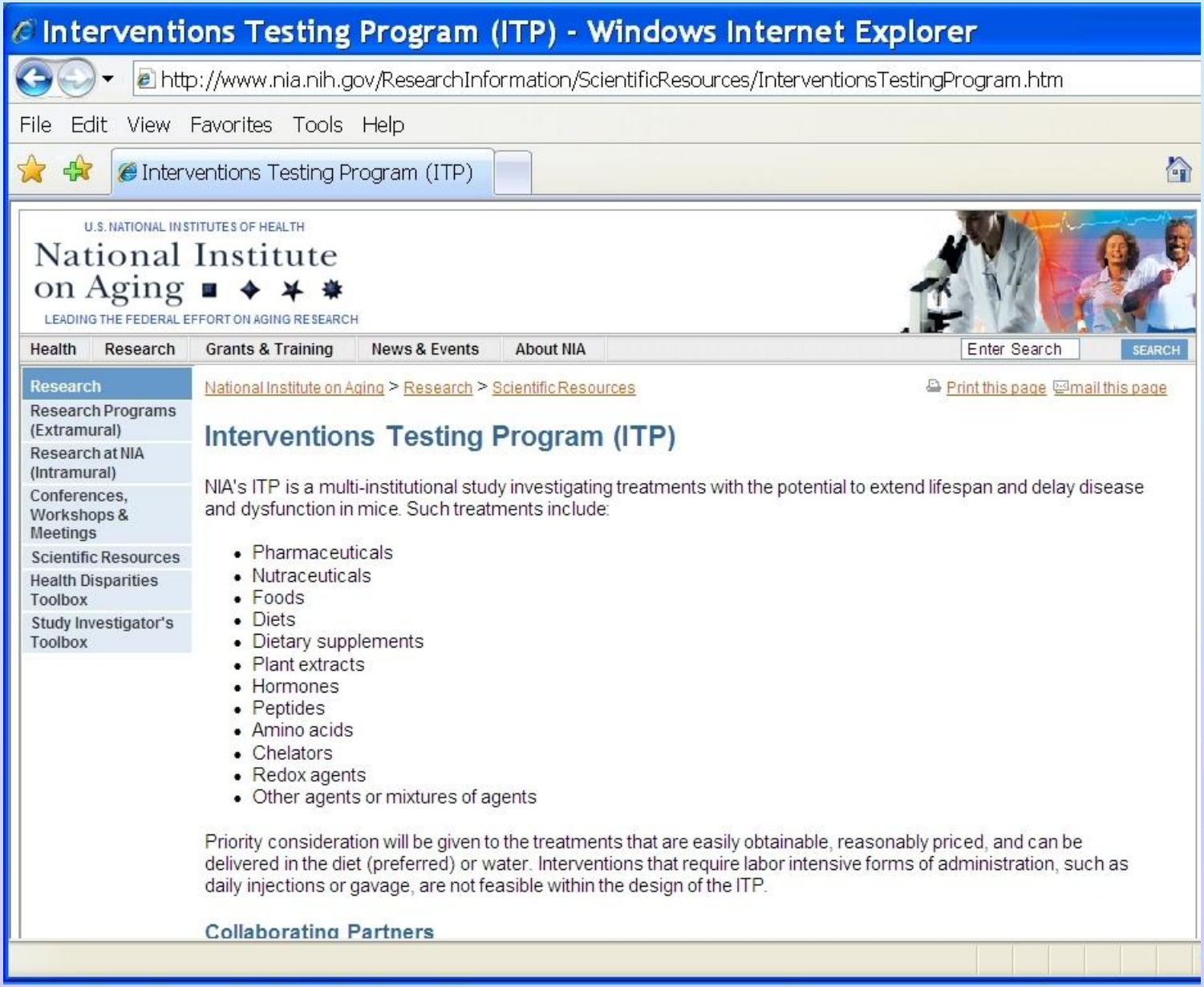
NIA Resources

Obese, Diabetic and Aging Animal Resource (diabetic monkey colony)

PI: Dr. Barbara Hansen (USF)

Contact: bchansen@aol.com

Access to monkeys, tissues, data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National Institute on Aging > Research > Scientific Resources
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Interventions Testing Program (ITP)
NIA's ITP is a multi-institutional study investigating treatments with the potential to extend lifespan and delay disease and dysfunction in mice. Such treatments include:
Pharmaceuticals
Nutraceuticals
Foods
Diets
Dietary supplements
Plant extracts
Hormones
Peptides
Amino acids
Chelators
Redox agents
Other agents or mixtures of agents
Priority consideration will be given to the treatments that are easily obtainable, reasonably priced, and can be delivered in the diet (preferred) or water. Interventions that require labor intensive forms of administration, such as daily injections or gavage, are not feasible within the design of the ITP.
Collaborating Partners

http://www.nia.nih.gov/ResearchInformation/ScientificResources/InterventionsTestingProgram.htm

D-SARM – database for sharing aging research models

(http://dsarm.niapublications.org/)

Mouse Phenome Database at The Jackson Laboratory.

http://phenome.jax.org/

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Welcome to the
Mouse Phenome Database

Search:

Other ways to search

Available phenotype strain survey data

How to contribute data

By subject area

Expand this list

- aging
- appearance and coat color
- behavior
- blood chemistry
- blood coagulation
- blood hematology
- blood lipids
- body composition
- body weight size and growth
- bone

By mouse strain

- find strains / list strains
- compare 2 strains
- strain panel data

By project / investigator

- list of all projects
- phenotyping collaborations

By intervention

- APAP (acetaminophen)
- diazepam

- **Correlations center**
  - Phenotype to Phenotype
  - Phenotype to Genotype
  - Phenotype to Gene Expression
  - Input your experimental data

- **Mouse SNPs**
  - Data sources
  - News
  - Data retrieval wizard

- **Gene expression** data

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http://phenome.jax.org/db/q?rtn=docs/agingstudies

Scroll down to

Yuan2 Yuan R, Paigen B Aging study: Lifespan and survival curves

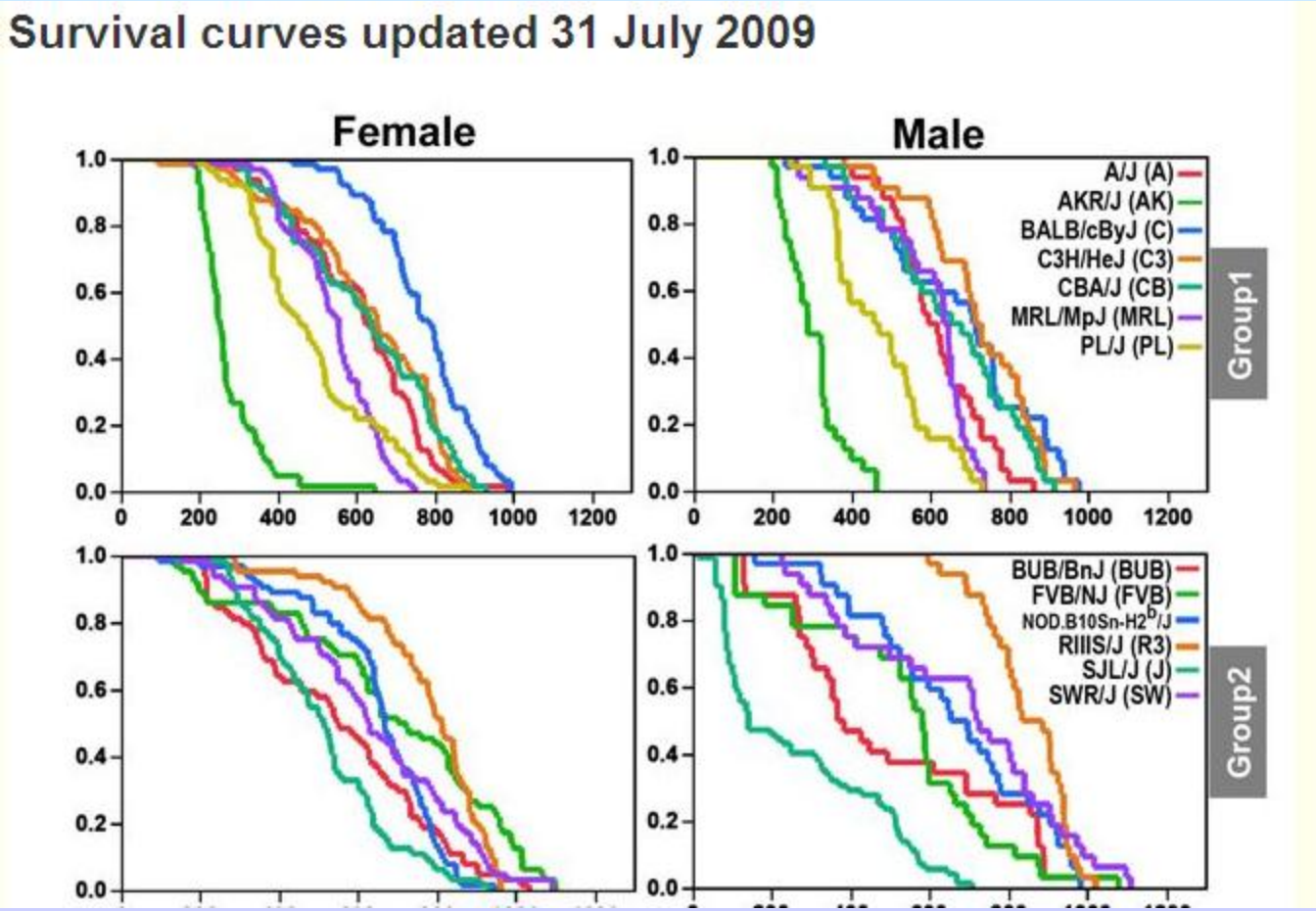
- longevity – survival curves

The Jackson Laboratory Jackson Aging Center

Lifespan and Survival Curve

Thirty-two inbred strains are in the process of being characterized for aging phenotypes as part of the Ellison Medical Foundation/Nathan Shock Center project at The Jackson Laboratory.

7 groups of survival curves…



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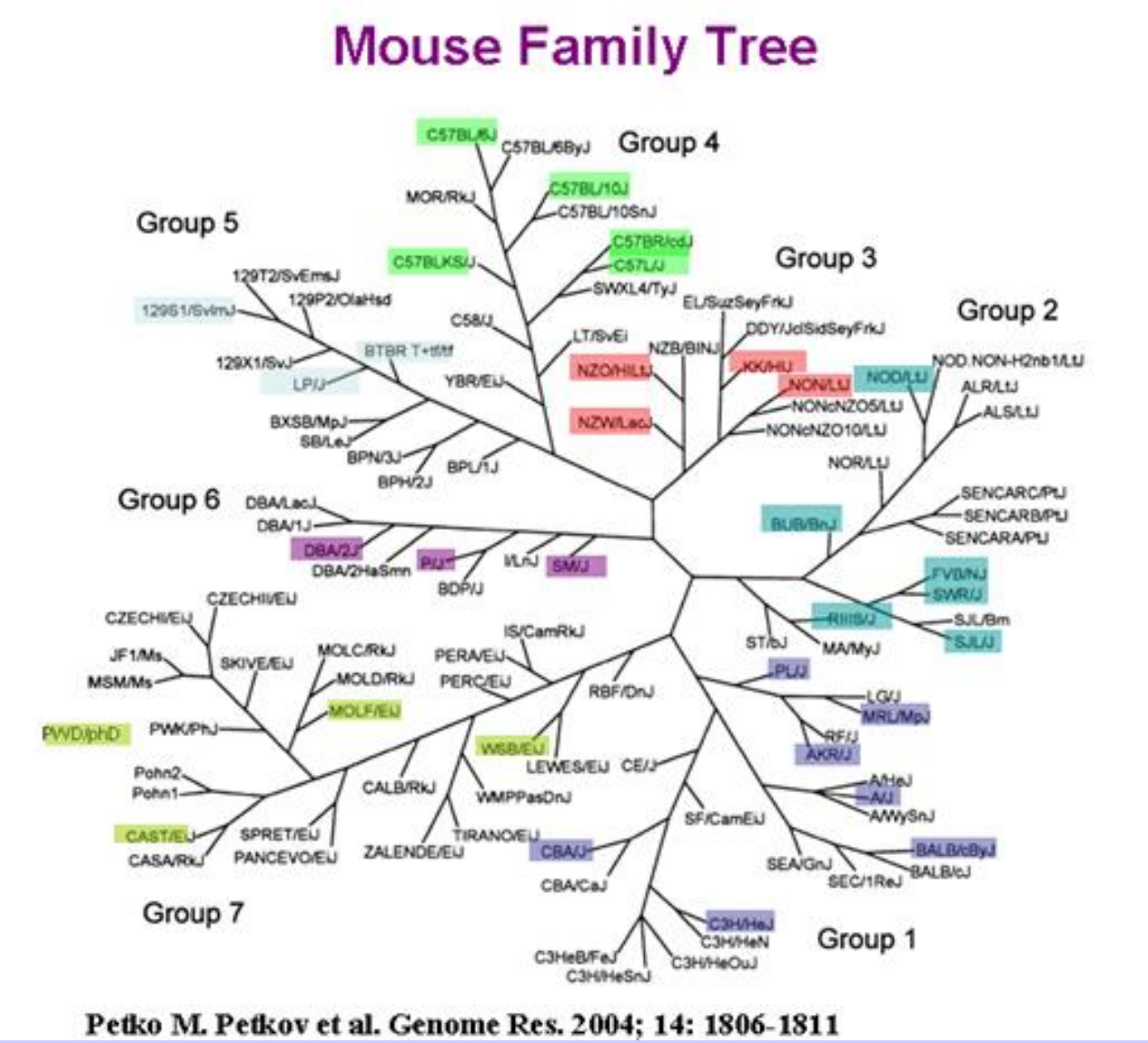
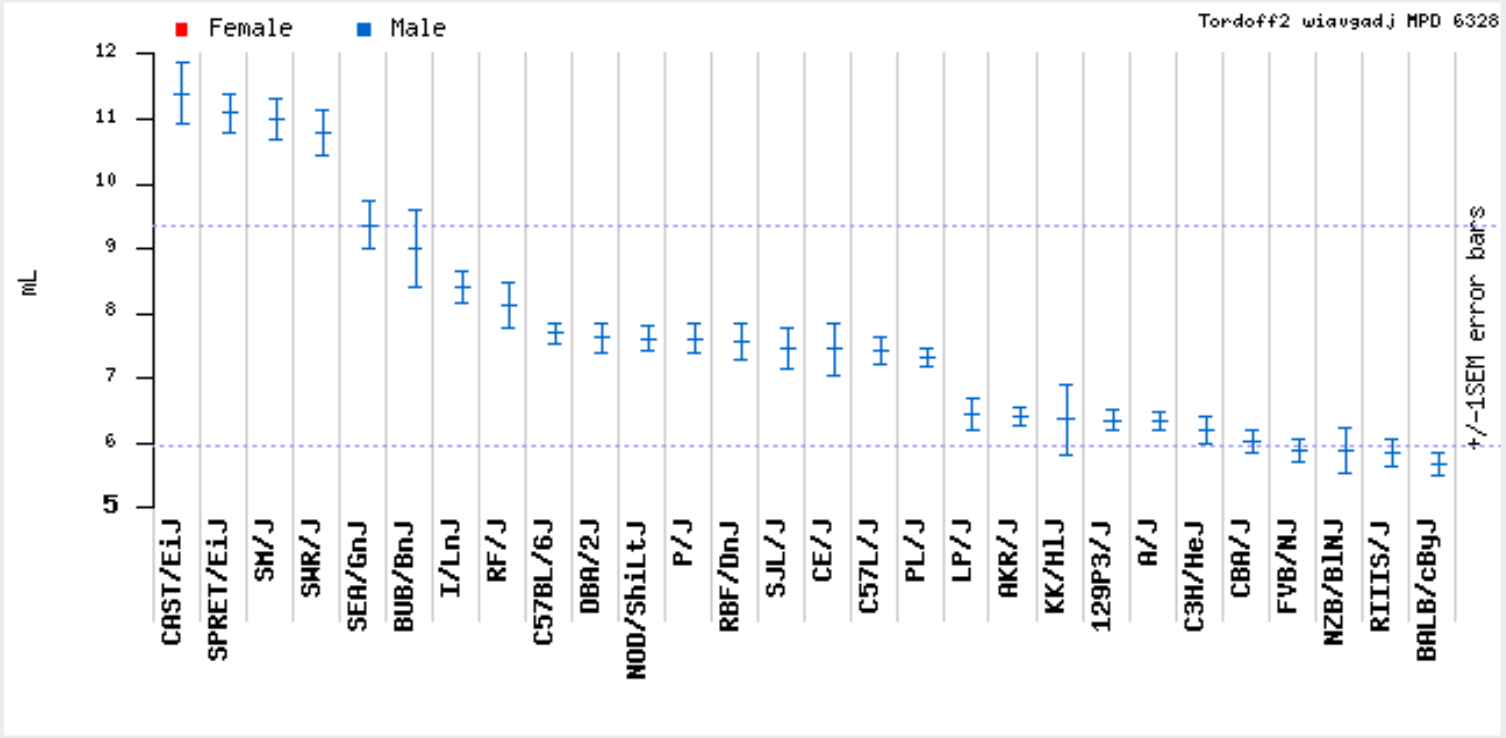


Example of use, strain differences in voluntary water intake



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