AMDCC

THE ANIMAL MODELS OF DIABETIC
COMPLICATIONS CONSORTIUM

AMDCC Coordinating and Bioinformatics Unit

1) Web portal overview

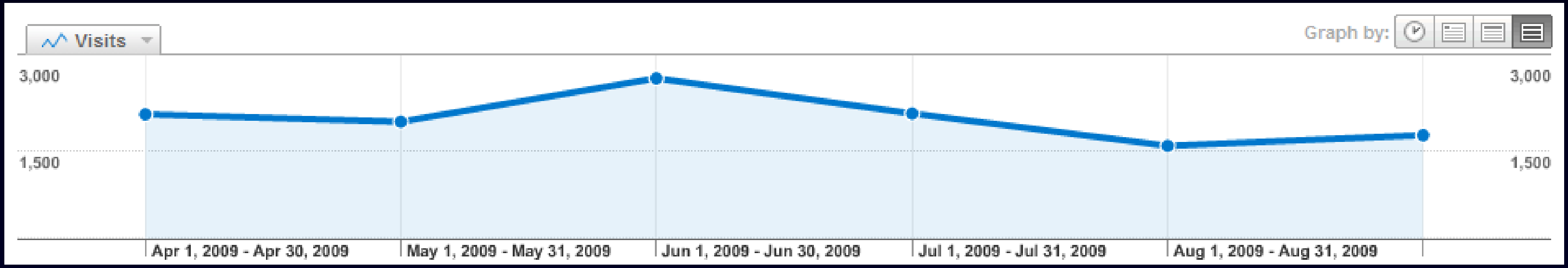
2) Website Structure Changes

Web Portal Overview

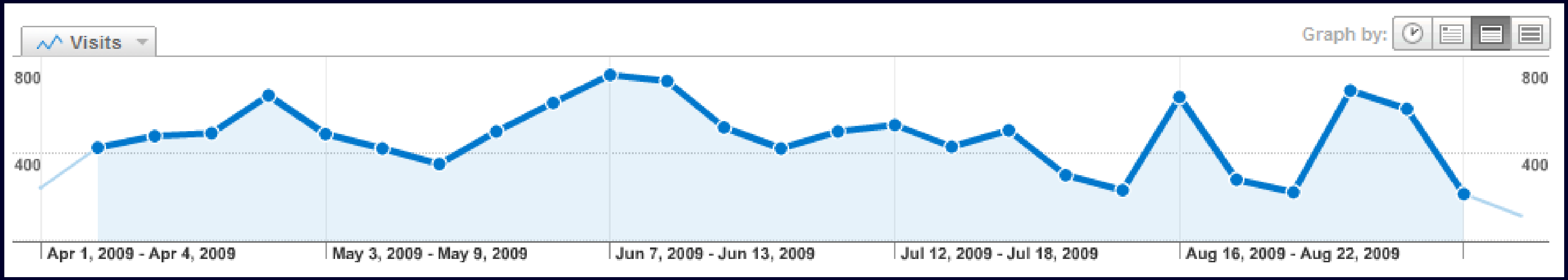
Average number of visitors per month: 2064

Average number of visits per week: 458

Monthly variation



Weekly variation



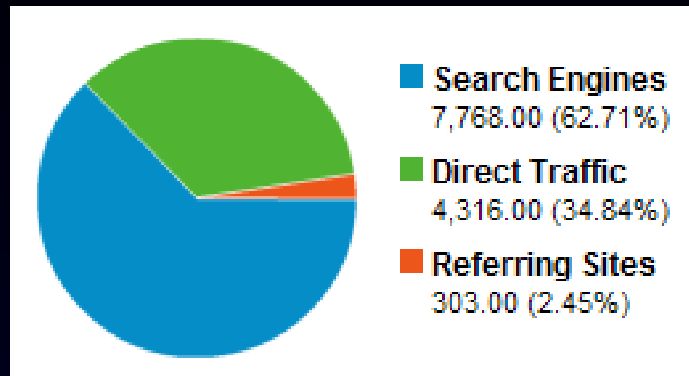
All numbers reflect non-AMDCC members

Where are the visitors coming from?

94 Countries (84% USA)

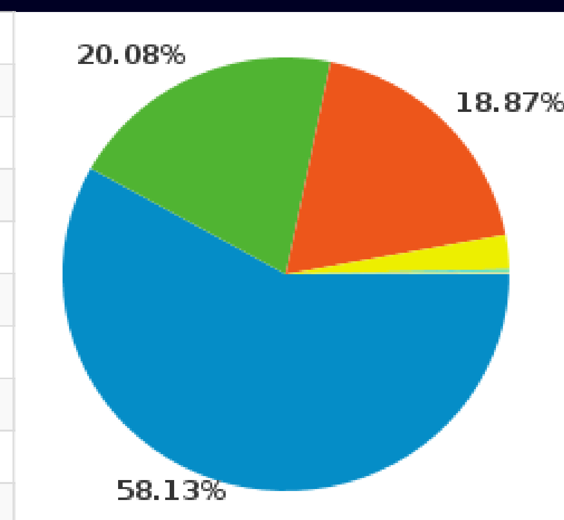
993 Cities

Traffic Sources



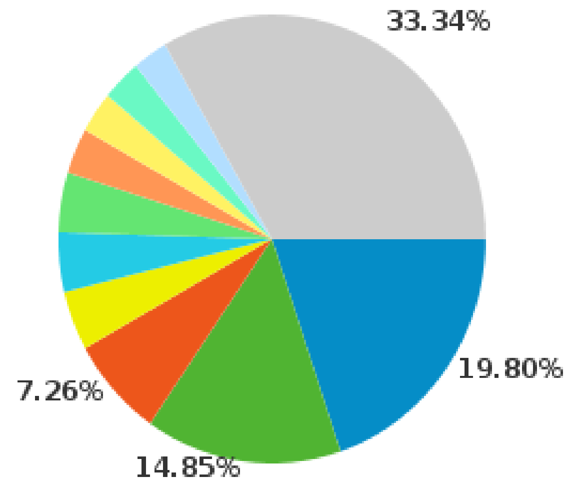
Search Engines

1.	live
2.	google
3.	bing
4.	yahoo
5.	msn
6.	aol
7.	search
8.	ask
9.	netscape
10.	altavista



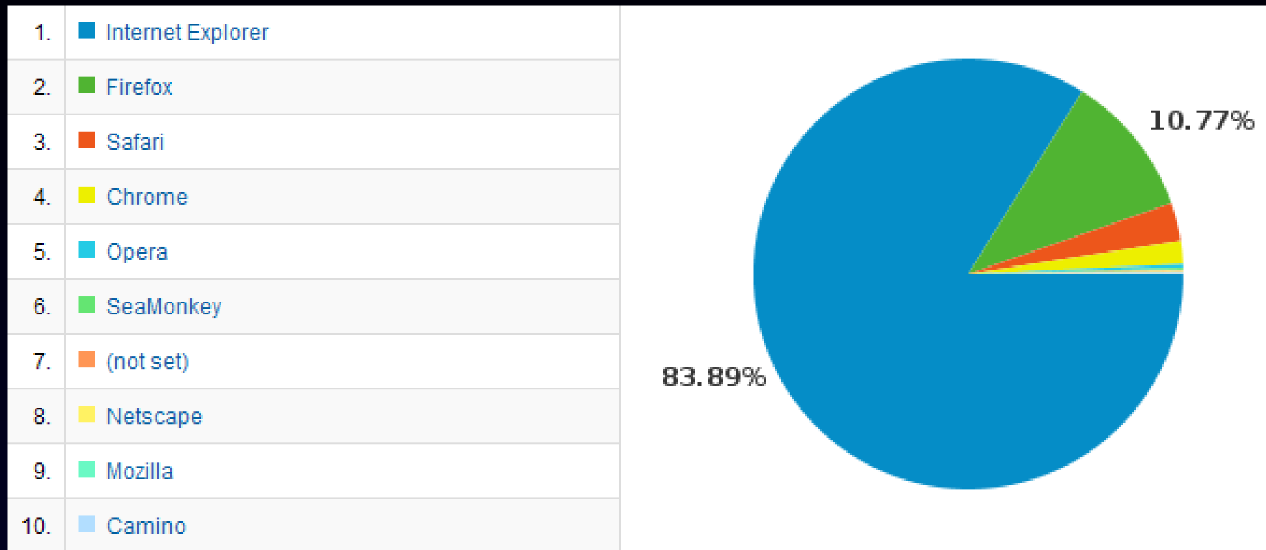
Referring Sites

1.	scientistsolutions.com
2.	bioinformatics.oxfordjournals.org
3.	pubmedcentral.nih.gov
4.	images.google.com
5.	scientific.thomsonwebplus.com
6.	webmail.jax.org
7.	t1diabetes.nih.gov
8.	dxy.cn
9.	thebesthosting.org
10.	notebooks-brasil.blogspot.com

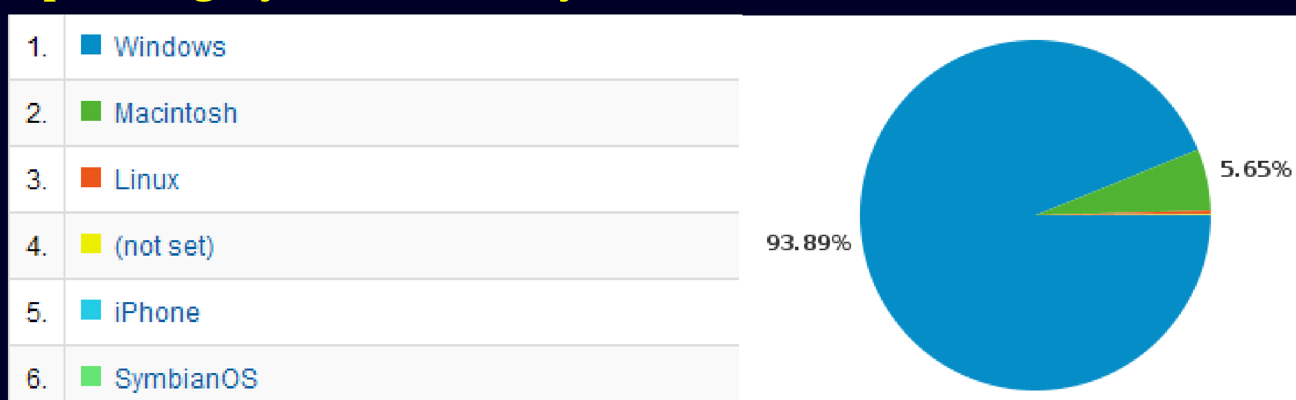


1.	scientistsolutions.com	Protocols
2.	bioinformatics.oxfordjournals.org	HPCluster Paper
3.	pubmedcentral.nih.gov	Publications

Browsers used to visit the site



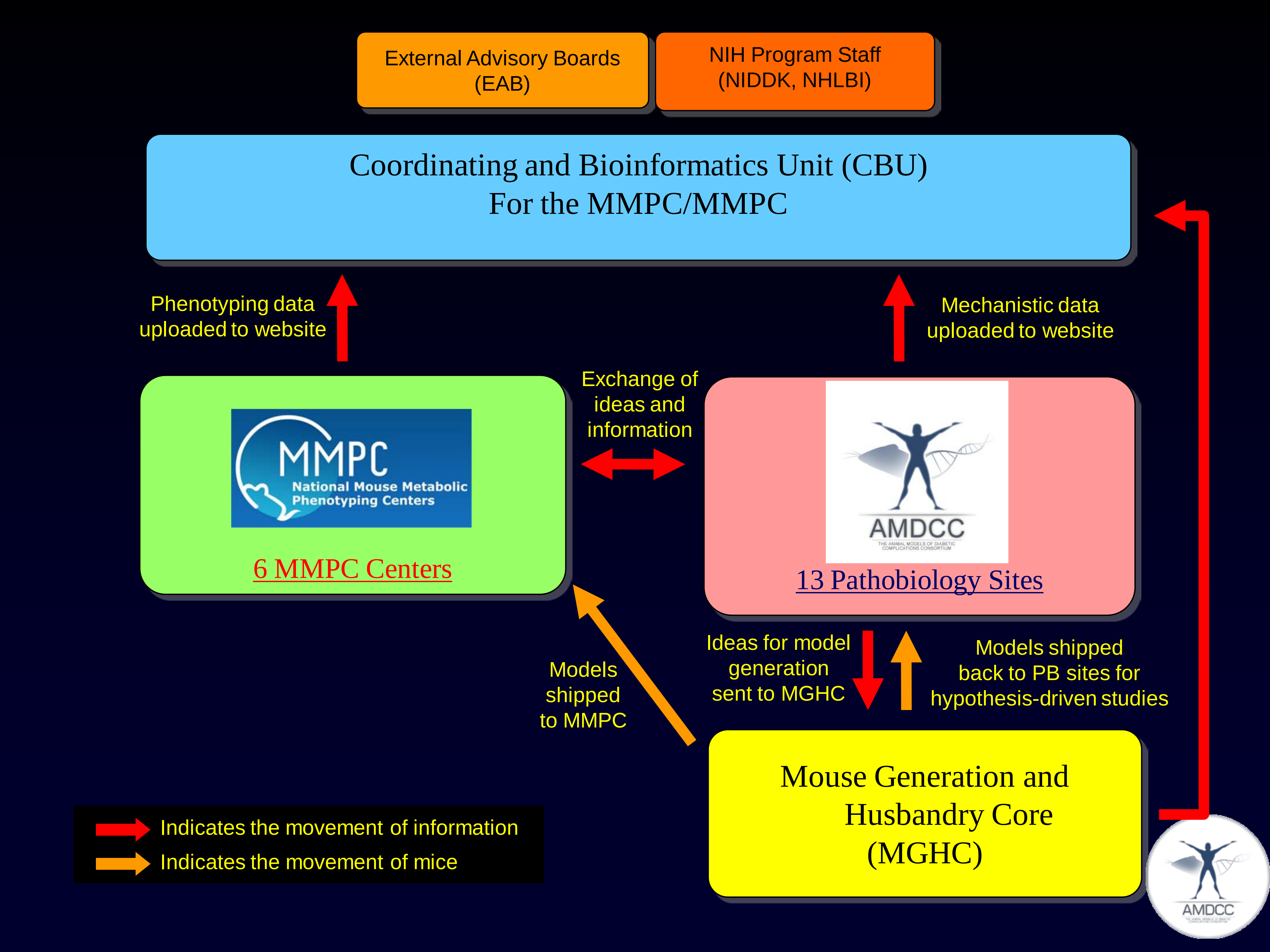
Operating Systems used by visitors



What are the visitors viewing?

1. Protocol Pages
2. Pilot & Feasibility Program
3. Model Phenotypes
4. Experiments Pages
5. Member Information
6. Validation Criteria Pages

AMDCC Website


External Advisory Boards (EAB)
NIH Program Staff (NIDDK, NHLBI)
Coordinating and Bioinformatics Unit (CBU) For the MMPC/MMPC
Phenotyping data uploaded to website
Mechanistic data uploaded to website
Exchange of ideas and information
MMPC
National Mouse Metabolic Phenotyping Centers
6 MMPC Centers
AMDCC
13 Pathobiology Sites
Models shipped to MMPC
Ideas for model generation sent to MGHC
Models shipped back to PB sites for hypothesis-driven studies
Mouse Generation and Husbandry Core (MGHC)
Indicates the movement of information
Indicates the movement of mice
AMDCC

Data in the system is grouped into two broad categories:

ARCHIVED

AMDCC first round
2001-2006

11 Investigators

Independent strain creation

Independent phenotyping

Variable # of assays

Large number of strains

CURRENT

AMDCC second round
2007-20011

14 Investigators

MGHC Creating Strains

MGHC/MMPC Phenotyping

More structured # of assays

Limited number of strains

All the archived data can be easily accessed.
The site lets the user know they are looking at archived data by changing the header.

Added the ability for lab members from different labs to enter data.

Refined the Experiment Criteria Definitions

Animal Models of Diabetic Complications Consortium

MAIN | RESOURCES | DATA SEARCH | DATA ANALYSIS | DATA SUBMISSION | ABOUT AMDCC | CONTACT | MEMBER AREA | LOGOUT

Experiment Criteria | Edit Definition | Edit Criteria

Experiment Criteria

Baseline Metabolic Phenotyping

Type	Metabolic
Dataset	Baseline Phenotyping
Animal Age	*Measured In:* week(s) post-natal (w)
Description	The AMDCC performs baseline phenotyping on all the mouse strains developed by the consortium. This experiment contains the data for these measurements. The phenotyping is done over a 25 week time frame were samples are taken at 4, 8, 12, 16, 20, 24 and 25 weeks of age.

CRITERIA

Animal Age (w)	HbA1c (%)	ualb-spot (µg/ml)	TC (mg/dL)	sBP (mmHg)	HDL-UC (mg/dL)	pGlucose (mg/dL)	ucreatinine-spot (mg/dL)	A/N (rodent) (cm)	NEFA (mmol/l
4-26		3x	x	x	x	5x	3x	x	x

Models

Welcome to the AMDCC models page. This page will provide model phenotyping information for AMDCC members.

Please click search to display all models or use the filter options below to limit your search by investigator and/or strain name. You may also filter results by using the limitations specified by the checkboxes to the right. You can specify whether the strain name should contain or start with the search term by using the toggle buttons. The search is **not** case sensitive.

Click here to filter search results...

Summary Statistics	⦿ Metabolic ○ Cardiovascular ○ Nephropathy ○ Neuropathy	Select a complication type and click 'Summary Statistics' then select the filter criteria for the analysis and click the 'Get Stats' button. Basic statistical information will be calculated for the data based on the filter criteria.
Comparative Analysis	⦿ Metabolic ○ Cardiovascular ○ Nephropathy ○ Neuropathy	Select a complication type and click 'Comparative Analysis' then select the filter criteria for the analysis and click the 'Get Stats' button. An ANOVA analysis (One way or Two way) will be performed on the data based on the filter criteria.
Plotting	⦿ Metabolic ○ Cardiovascular ○ Nephropathy ○ Neuropathy	Select a complication type and click 'Plotting' to plot the dataset generated from the validation criteria then select the type of chart to be generated and the filter criteria for the data to be plotted, finally, click the 'Get Chart' button.

Options: view edit

Model	Phenotyped For						Other Resources			
Jax Nomenclature	Metabolic	Cardiovascular	Nephropathy	Neuropathy	Retinopathy	Uropathy	Tissues	Reagents	Publications	Options
129(B6)-Nos3$^{tm1.1Rhrs}$/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View	
B6.129-Ins2^{Akita} Bdkrb2^{tm1Jfh}/SmiJ	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View	

BKS.Cg-m Lepr^{db}/+ +	Coming Soon	Coming Soon	Coming Soon	Complete
C57BL/6-Ins2^{Akita} Bdkrb1/Bdkrb2^{tm2Mki}/J	Complete	Partial	Partial	Coming Soon
C57BL/6J	Complete	Partial	Partial	Partial
C57BL/6J-Ins2^{Akita}	Complete	Partial	Partial	Coming Soon
D2.129(B6)-Nos3$^{tm1.1Rhrs}$/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon
D2.B6-Ins2^{Akita}/MatbJ	Complete	Partial	Partial	Coming Soon
D2.Cg-Ins2 ^{Akita} Nr1h4^{tm1Gonz}/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon
DBA/2J	Complete	Partial	Partial	Partial
FVB.B6-Ins2^{Akita}/MlnJ	Complete	Partial	Partial	Coming Soon
FVB.BKS(D)-Lepr ^{db}/ChuaJ	Complete	Partial	Partial	Coming Soon

NOD/LtJ	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View	
NOD/Shi	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View	
SWR/J	Coming Soon	Coming Soon	Coming Soon	Partial	Coming Soon	Coming Soon	View	View	View	

AMDCC

Refined the Validation Criteria Definitions

Edit Validation Criteria

Nephropathy Models

Assay

Begin typing to search for phenotype assay...

Validate

Set the criteria for validating phenotype measurements...

Average Categorical Percent Change

	Operator	Average	
☑	>		(min)
☑	<		(max)

When

Specify the conditions for when this validation should apply...

	Operator	Minimum	Operator	Maximum
Animal Age	>		<	

mouse diet Add

	Experimental Condition	Operator	Value	Operator	Value
☑	IP STZ dose	>		<	
☑	mouse diet	Equal	LabDiet 5001		

Reset Add Back

Options	Phenotype Assay	Units	Validate	When
	Arteriolar Hyalinosis (Arteriolar Hyalinosis)		value equal Present	
	GFR inulin clearance (FITC-inulin IV bolus injection) (GFR FITC)	µl/min	dec >= 50% over Animal Age	
	glomerular basement membrane thickness (GBM Width)	nm	inc > 50% over Animal Age	
	Mesangial Sclerosis (Mesangial Sclerosis)		value equal Present	
	Tubulo-interstitial fibrosis (Tubulo-interstitial fibrosis)		value equal Present	
	urine albumin (Exocell Albulwell M ELISA) (ualb)	µg/ml	inc > 5000% over Animal Age	

AMDCC

Primary Data | Primary Data, Continued | Primary Data, Kidney | Primary Data, CV

Baseline Metabolic Phenotyping Data

Animal Age (w)	HbA1c (%)	pGlucose (mg/dL)	plasma insulin (pg/ml)	W rodent (g)	fat body mass (g)	lean body mass (g)	%BF (rodent) (%)
4		338.09		23.26			
5		368.00		27.56			
6		593.67		34.23			
7							
8		606.64	36252.41	42.57			
9							
10				46.01			
11							
12		569.77		48.13			
13							
14				49.94			
15							
16		462.09	33303.36	52.56			
17							
18				53.67			
19							
20		370.32		54.34			
21							
22				55.92			
23							
24		317.76	21495.29	58.00			
25				60.19	26.36	32.90	44.32
26		419.52		59.47			

26 419.52 59.47

Cardiovascular Validation

AALA (µm²)	pGlucose (mg/dL)	plasma insulin (pg/ml)
.00	452.62	30486.58

Validation Criteria automatically evaluated.

Nephropathy Validation

Arteriolar Hyalinosis	GFR FITC (µl/min)	GBM Width (nm)	Mesangial Sclerosis	Tubulo-interstitial fibrosis	ualb (µg/ml)
Absent	Coming Soon	Coming Soon	Absent	Absent	602.00

Breyer, Matthew | View Models | *Not Available* | View Annual Reports | View Publications | View Presentations

Animal Models of Diabetic Complications Consortium

Logged in as: **Richard McIndoe**
View Profile | Edit Profile

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View Archive | Model Definitions | Metabolic Phenotype Data | Add Model | Strains | Add Strain

Models

Welcome to the AMDCC models page. This page will provide model phenotyping information for AMDCC members.

Please click search to display all models or use the filter options below to limit your search by investigator and/or strain name. You may also filter results by using the limitations specified by the checkboxes to the right. You can specify whether the strain name should contain or start with the search term by using the toggle buttons. The search is **not** case sensitive.

Summary Statistics	◉ Metabolic ○ Cardiovascular ○ Nephropathy ○ Neuropathy	Select a complication type and click 'Summary Statistics' then select the filter criteria for the analysis and click the 'Get Stats' button. Basic statistical information will be calculated for the data based on the filter criteria.
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B6.Cg-Sod2^{tm1Shs}/Elf J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
B6.Cg-Sod2^{tm1Shs}Tg(Tagln-cre/ESR1)1Feil/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
B6;129-Gt(ROSA)26Sor$^{tm1(Ntn1)Abel}$/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
BKS.Cg- Lepr^{db} Sod2^{tm1Shs} Tg(Nes-cre)1Kln/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
BKS.Cg-Lepr^{db} Sod2^{tm1Shs}/ElfJ	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
BKS.Cg-Lepr^{db} Tg(Nes-cre)1Kln/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
BKS.Cq-m Lepr^{db}/+ +	Coming Soon	Coming Soon	Coming Soon	Complete	Coming Soon	Coming Soon	View	View	View
C57BL/6-Ins2^{Akita} Bdkrb1/Bdkrb2^{tm2Mki}/J	Complete	Partial	Partial	Coming Soon	Coming Soon	Coming Soon	View	View	View
C57BL/6J	Complete	Partial	Partial	Partial	Coming Soon	Coming Soon	View	View	View
C57BL/6J-Ins2^{Akita}	Complete	Partial	Partial	Coming Soon	Coming Soon	Coming Soon	View	View	View
D2.129(B6)-Nos3$^{tm1.1Rhrs}$/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
D2.B6-Ins2^{Akita}/MatbJ	Complete	Partial	Partial	Coming Soon	Coming Soon	Coming Soon	View	View	View
D2.Cg-Ins2 ^{Akita} Nr1h4^{tm1Gonz}/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
DBA/2J	Complete	Partial	Partial	Partial	Coming Soon	Coming Soon	View	View	View
FVB.B6-Ins2^{Akita}/MlnJ	Complete	Partial	Partial	Coming Soon	Coming Soon	Coming Soon	View	View	View
FVB.BKS(D)-Lepr ^{db}/ChuaJ	Complete	Partial	Partial	Coming Soon	Coming Soon	Coming Soon	View	View	View
FVB.Cg-Ins2^{Akita} Nr1h4^{tm1Gonz}/J	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
NOD	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
NOD/LtJ	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
NOD/Shi	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	Coming Soon	View	View	View
SWR/J	Coming Soon	Coming Soon	Coming Soon	Partial	Coming Soon	Coming Soon	View	View	View

NIDDK | National Heart Lung and Blood Institute | Department of Health and Human Services | National Institutes of Health

AMDCC

Basic Statistics

This page will allow the user to analyze a sing… wants for the analysis and click the 'Get Stats…

Select an experiment:

[Leiter] Baseline Metabolic Phenotyping for…

Select a saved dataset:

[None Selected] *Create N…*

Get Stats | Cancel

There is a total of 13327 measurements…

Select Assay(s), Strains and…

Assays

- %BF (rodent) (%)
- A/N (rodent) (cm)
- ACR (µg/mg)
- ACR-spot (µg/mg)
- aortic sinus (cross section) lesion ar…
- BMC (g)
- BMD (g/cm²)
- bone area (cm²)
- brain weight (rodent (g)
- BUN (mg/dL)
- EKG-PQ (msec)
- EKG-PR (msec)
- EKG-QRS (msec)
- EKG-QT (msec)
- EKG-QTc (msec)
- EKG-RR (msec)
- EKG-ST (msec)
- fat body mass (g)
- GLDH (U/L)
- Hct
- HDL-UC (mg/dL)
- HR (bpm)
- urine output (ml)
- W rodent (g)

Strains

- C57BL/6-Bdkrb1/Bdkrb2^{tm2Mki}/J
- C57BL/6-Ins2^{Akita} Bdkrb1/Bdkrb2^{tm2Mki}/J
- C57BL/6J
- C57BL/6J-Ins2^{Akita}
- D2.B6-Ins2^{Akita}/MatbJ
- DBA/2J
- FVB.B6-Ins2^{Akita}/MlnJ
- FVB.BKS(D)-+/?/ChuaJ
- FVB.BKS(D)-Lepr ^{db}/ChuaJ
- FVB/NJ

Sex

Both

Age @ Sample Date

from ____ to ____ *Leave blank for all*

Experimental Conditions

mouse diet

LabDiets-5LA6 | LabDiet 5K52

Basic Statistics Results

Select a chart type to view the data.

Column Chart | Line Chart | X-Y Chart

Y Axis: pGlucose (mg/dL) | Get Chart

Data Filter Criteria:
Sex: Both
Age: No age filter given.

Experimental Factors:
None Selected.

Experiment(s):
Baseline Metabolic Phenotyping for AMDCC Mouse Strains

Assay	Strain	Sex	Num	Avg	Stdev	Median	Min	Max	Var	Skewness	Kurtosis
pGlucose (mg/dL)	C57BL/6-Bdkrb1/Bdkrb2^{tm2Mki}/J	Both	106	170.991	49.548	161	99	373	2455.047	1.978	4.828
		Females	53	163.736	50.918	161	99	361	2592.685	2.291	6.024
		Males	53	178.245	47.033	161	118	373	2212.147	1.798	4.259
	C57BL/6-Ins2^{Akita} Bdkrb1/Bdkrb2^{tm2Mki}/J	Both	120	490.783	167.064	513.5	111	867	27910.436	-0.607	-0.282
		Females	55	373.473	152.223	513.5	111	769	23171.813	-0.024	-0.682
		Males	65	590.046	102.09	513.5	160	867	10422.352	-0.908	3.574

Assay	Strain	Sex	Num	Avg	Stdev	Median	Min	Max	Var	Skewness	Kurtosis
W rodent (g)	C57BL/6-Bdkrb1/Bdkrb2^{tm2Mki}/J	Both	181	29.641	7.348	29.9	14.9	45.7	53.999	0.083	-0.866
		Females	89	26.581	6.3	29.9	14.9	39.8	39.691	0.177	-0.997
		Males	92	32.602	7.072	29.9	17.4	45.7	50.013	-0.193	-0.772
	C57BL/6-Ins2^{Akita} Bdkrb1/Bdkrb2^{tm2Mki}/J	Both	202	21.938	2.54	22.1	13.4	29.4	6.452	-0.46	0.536
		Females	93	21.529	3.09	22.1	13.4	29.4	9.549	-0.082	-0.261
		Males	109	22.287	1.883	22.1	15	26.1	3.545	-0.841	1.242
	C57BL/6J	Both	212	26.698	6.236	26.2	11.5	43.8	38.893	0.112	-0.326
		Females	96	22.698	3.925	26.2	11.5	31.9	15.407	-0.27	0.244
		Males	116	30.008	5.842	26.2	13.6	43.8	34.133	-0.532	0.555
	C57BL/6J-Ins2^{Akita}	Both	230	21.637	2.917	22.2	12	27.4	8.500	-1.032	1.276
		Females	138	21.33	2.772	22.2	12	26.8	7.683	-1.192	1.703
		Males	92	22.097	3.065	22.2	12.6	27.4	9.392	-0.986	0.905
	D2.B6-Ins2^{Akita}/MatbJ	Both	224	20.769	3.119	21.2	9.6	26.6	9.725	-0.851	0.57
		Females	114	20.36	3.251	21.2	11.7	26.5	10.57	-0.597	-0.097
		Males	110	21.194	2.915	21.2	9.6	26.6	8.497	-1.156	1.78
	DBA/2J	Both	131	24.347	6.194	23.9	11.9	43.9	38.363	0.738	0.751
		Females	62	21.55	3.453	23.9	12	26.8	11.924	-0.918	0.142
		Males	69	26.899	6.984	23.9	11.9	43.9	48.777	0.273	-0.343
	FVB.B6-Ins2^{Akita}/MlnJ	Both	264	23.703	3.665	23.6	14.9	30.3	13.429	-0.199	-1.005
		Females	143	21.476	2.799	23.6	14.9	29.3	7.835	0.204	0.115
		Males	121	26.336	2.691	23.6	18	30.3	7.24	-1.391	1.522
	FVB.BKS(D)-+/?/ChuaJ	Both	149	27.823	6.415	26.5	14.2	43.4	41.154	0.37	-0.607
		Females	75	23.328	3.247	26.5	14.2	31.1	10.541	-0.369	0.613
		Males	74	32.38	5.562	26.5	17.6	43.4	30.938	-0.417	-0.035
	FVB.BKS(D)-Lepr ^{db}/ChuaJ	Both	265	49.188	10.455	50.3	17.3	73.5	109.301	-0.735	0.503
		Females	120	50.136	10.739	50.3	17.3	68.1	115.333	-0.907	0.724
		Males	145	48.404	10.146	50.3	18.1	73.5	102.951	-0.600	0.408
	FVB/NJ	Both	194	24.168	4.756	23.3	14.6	34.4	22.621	0.278	-0.625
		Females	119	21.495	2.898	23.3	14.6	28	8.399	-0.385	-0.101
		Males	75	28.408	3.984	23.3	16.8	34.4	15.871	-0.771	0.173

Comparative Analysis

ANOVA Analysis

Based on the filter options either a One way ANOVA or Two way ANOVA is performed.

If the number of Strains > 2 and all animals of one sex, then a One way ANOVA is performed.

If the number of Strains > 2 and data has both males and females, then a Two way ANOVA is performed to determine if there are Sex by Strain interactions.

For each ANOVA, the user can decide whether to compare two groups of strains (contrasts) or output all possible pairwise comparisons for the strains selected. The Two way ANOVA can handle data from an unbalanced design.

Select Assay: W rodent (g)

Options:

- Analyze groups of strains
- All pairwise strain comparisons

Perform ANOVA

Age @ Sample Date

from 24 **to** 26 *Leave blank for all*

Experimental Conditions

mouse diet

LabDiets-5LA6 LabDiet 5K52

NIDDK National Heart Lung and Blood Institute Department of Health and Human Services National Institutes of Health

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Select Assay: W rodent (g)

Options:

- Analyze groups of strains
- All pairwise strain comparisons

Perform ANOVA

Average			
Strain	**F**	**M**	**Ove**
C57BL/6J	25.7313	34.1650	30.4
C57BL/6J-Ins2^{Akita}	23.5333	22.7800	23.2
D2.B6-Ins2^{Akita}/MatbJ	23.7200	21.3667	22.6
DBA/2J	25.1250	33.6833	30.2
FVB.B6-Ins2^{Akita}/MlnJ	23.5350	28.4056	25.8
FVB/NJ	23.6125	32.1583	27.2
Overall	24.0300	28.9575	26.3

Two Way ANOVA Results: ***Strain by Sex Interaction is significant***

Source	Degrees of Freedom	Sum of Squares	Mean Square	F statistic	P value
Strain	5	1270.921	254.184	38.615	**0.00000000**
Sex	1	677.626	677.626	102.942	**0.00000000**
Interaction	5	767.249	153.450	23.311	**0.00000000**
Error	158	1040.051	6.583		
Total	169	4029.865			

Requested Details for: ***All Pairwise Comparisons (Tukey Correction) - Females***

Strain 1	Strain 2	P value	Chart	
C57BL/6J	C57BL/6J-Ins2^{Akita}	0.09059459		
C57BL/6J	D2.B6-Ins2^{Akita}/MatbJ	0.37913618		
C57BL/6J	DBA/2J	0.99825255		
C57BL/6J	FVB.B6-Ins2^{Akita}/MlnJ	0.11562209		
C57BL/6J	FVB/NJ	0.18611741		
C57BL/6J-Ins2^{Akita}	D2.B6-Ins2^{Akita}/MatbJ	0.99996213		
C57BL/6J-Ins2^{Akita}	DBA/2J	0.86006008		
C57BL/6J-Ins2^{Akita}	FVB.B6-Ins2^{Akita}/MlnJ	1.00000000		
C57BL/6J-Ins2^{Akita}	FVB/NJ	0.99999886		
D2.B6-Ins2^{Akita}/MatbJ	DBA/2J	0.93938915		
D2.B6-Ins2^{Akita}/MatbJ	FVB.B6-Ins2^{Akita}/MlnJ	0.99996856		
D2.B6-Ins2^{Akita}/MatbJ	FVB/NJ	0.99999827		
DBA/2J	FVB.B6-Ins2^{Akita}/MlnJ	0.86759997		
DBA/2J	FVB/NJ	0.89837069		
FVB.B6-Ins2^{Akita}/MlnJ	FVB/NJ	0.99999915		

Strain 1	Strain 2	P value	Chart	
C57BL/6J-Ins2^{Akita}	FVB/NJ	0.99999886		
D2.B6-Ins2^{Akita}/MatbJ	DBA/2J	0.93938915		
D2.B6-Ins2^{Akita}/MatbJ	FVB.B6-Ins2^{Akita}/MlnJ	0.99996856		
D2.B6-Ins2^{Akita}/MatbJ	FVB/NJ	0.99999827		
DBA/2J	FVB.B6-Ins2^{Akita}/MlnJ	0.86759997		
DBA/2J	FVB/NJ	0.89837069		
FVB.B6-Ins2^{Akita}/MlnJ	FVB/NJ	0.99999915		

AMDCC

Plot Data

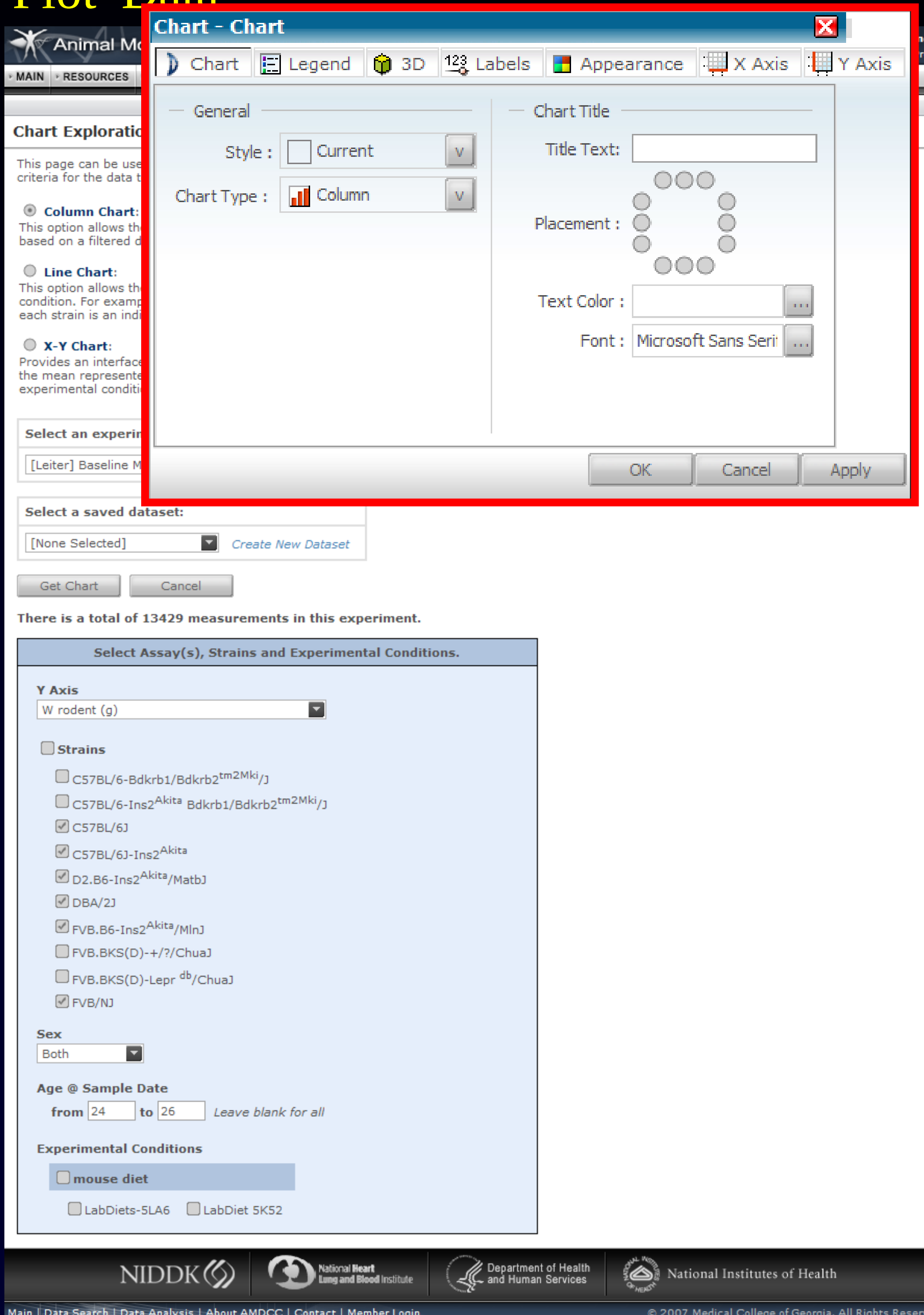
Chart - Chart
Chart
Legend
3D
Labels
Appearance
X Axis
Y Axis
General
Style :
Current
Chart Type :
Column
Chart Title
Title Text:
Placement :
Text Color :
Font :
Microsoft Sans Serif
OK
Cancel
Apply
MAIN
RESOURCES
Chart Exploratio
This page can be use
criteria for the data t
Column Chart:
This option allows th
based on a filtered d
Line Chart:
This option allows th
condition. For examp
each strain is an indi
X-Y Chart:
Provides an interface
the mean represente
experimental conditi
Select an experim
[Leiter] Baseline M
Select a saved dataset:
[None Selected]
Create New Dataset
Get Chart
Cancel
There is a total of 13429 measurements in this experiment.
Select Assay(s), Strains and Experimental Conditions.
Y Axis
W rodent (g)
Strains
C57BL/6-Bdkrb1/Bdkrb2tm2Mki/J
C57BL/6-Ins2Akita Bdkrb1/Bdkrb2tm2Mki/J
C57BL/6J
C57BL/6J-Ins2Akita
D2.B6-Ins2Akita/MatbJ
DBA/2J
FVB.B6-Ins2Akita/MlnJ
FVB.BKS(D)-+/?/ChuaJ
FVB.BKS(D)-Lepr db/ChuaJ
FVB/NJ
Sex
Both
Age @ Sample Date
from 24 to 26 Leave blank for all
Experimental Conditions
mouse diet
LabDiets-5LA6
LabDiet 5K52
NIDDK
National Heart Lung and Blood Institute
Department of Health and Human Services
National Institutes of Health
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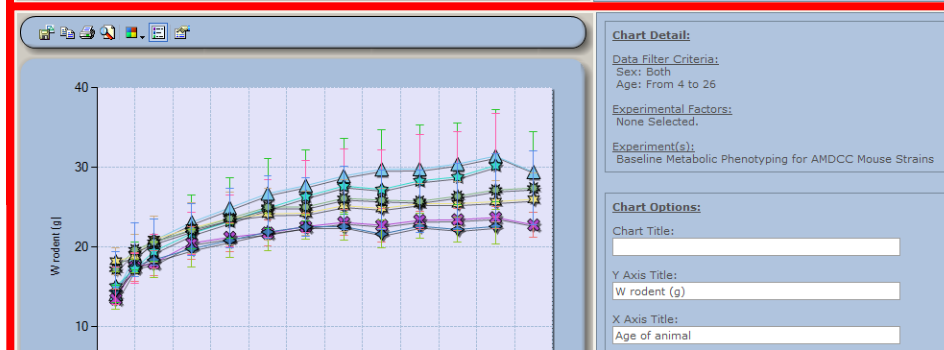
W rodent (g)
C57BL/6J
C57BL/6J-Ins2<Akita>
D2.B6-Ins2<Akita>/MatbJ
DBA/2J
FVB.B6-Ins2<Akita>/MlnJ
FVB/NJ
Chart Detail:
Data Filter Criteria:
Sex: Both
Age: From 24 to 26
Experimental Factors:
None Selected.
Experiment(s):
Baseline Metabolic Phenotyping for AMDCC Mouse Strains
Chart Options:
Chart Title:
Y Axis Title:
W rodent (g)
Y Axis:
W rodent (g)
Refresh Chart
Related Links:
View Basic Statistics
View ANOVA Analysis


W rodent (g)
Chart Detail:
Data Filter Criteria:
Sex: Both
Age: From 4 to 26
Experimental Factors:
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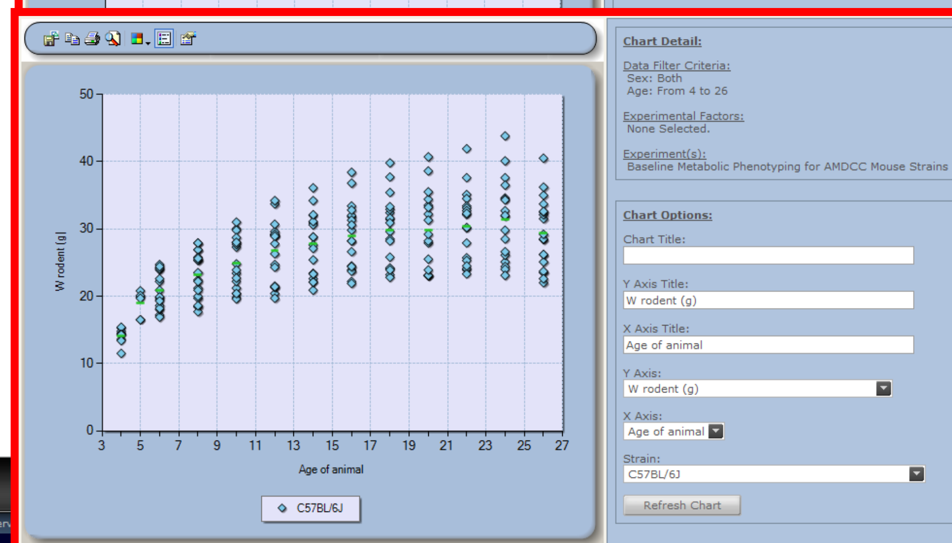
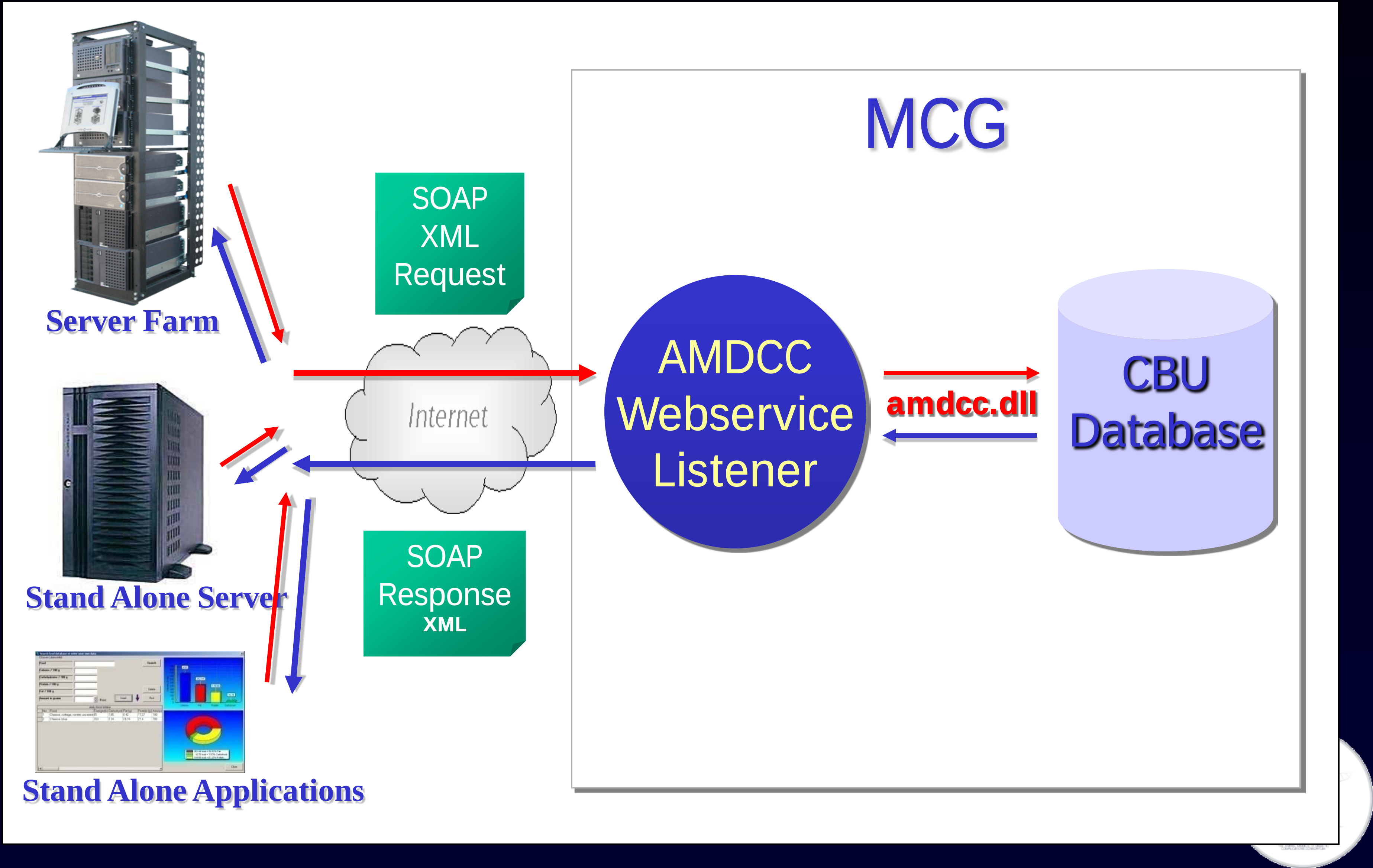
Experiment(s):
Baseline Metabolic Phenotyping for AMDCC Mouse Strains
Chart Options:
Chart Title:
Y Axis Title:
W rodent (g)
X Axis Title:
Age of animal


W rodent (g)
Age of animal
C57BL/6J
Chart Detail:
Data Filter Criteria:
Sex: Both
Age: From 4 to 26
Experimental Factors:
None Selected.
Experiment(s):
Baseline Metabolic Phenotyping for AMDCC Mouse Strains
Chart Options:
Chart Title:
Y Axis Title:
W rodent (g)
X Axis Title:
Age of animal
Y Axis:
W rodent (g)
X Axis:
Age of animal
Strain:
C57BL/6J
Refresh Chart

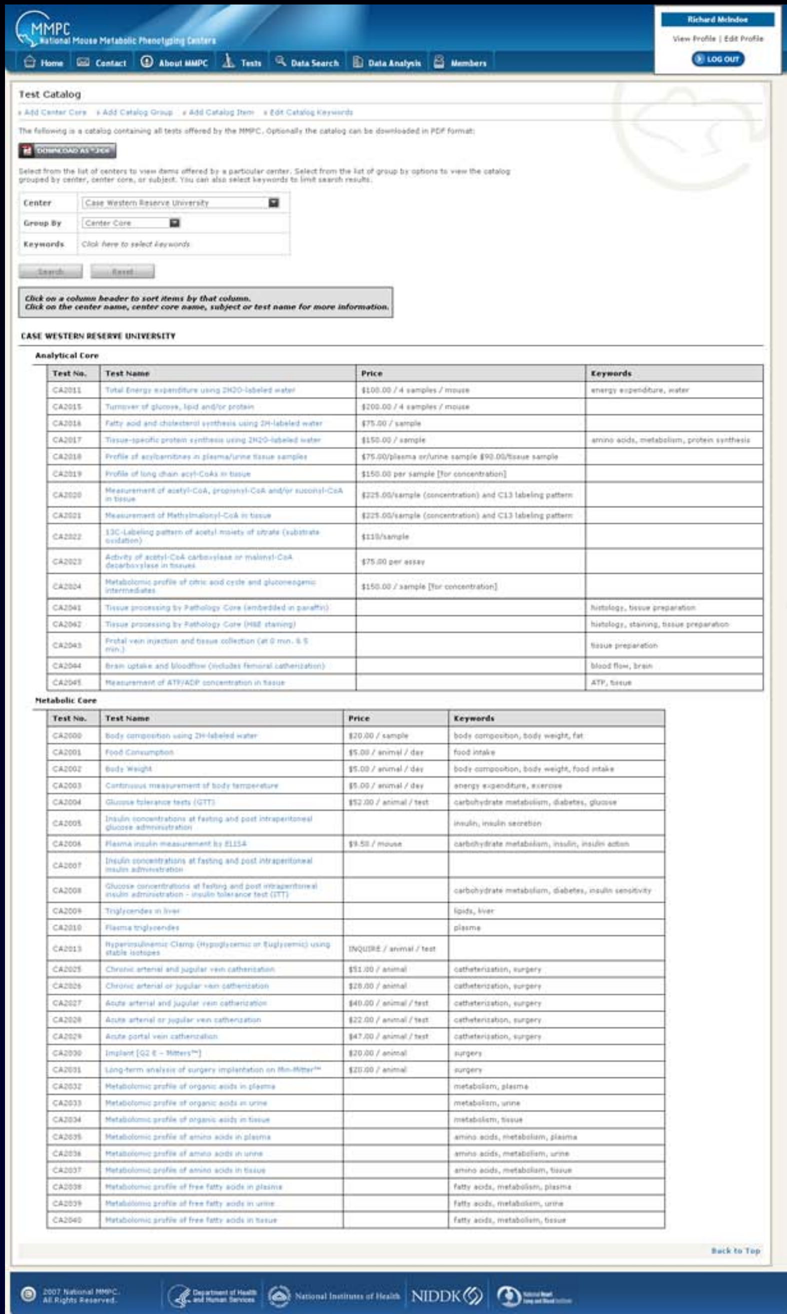
All the AMDCC Webservices have been updated to the new object model.

Provide programmatic service for other platforms to access data using SOAP/HTTP



MMPC Catalog Web Services

http://gosox.info



MMPC National Mouse Metabolic Phenotyping Centers

Home | Contact | About MMPC | Tests | Data Search | Data Analysis | Members

Richard McIndoe

View Profile | Edit Profile

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Test Catalog

» Add Center Core » Add Catalog Group » Add Catalog Item » Edit Catalog Keywords

The following is a catalog containing all tests offered by the MMPC. Optionally the catalog can be downloaded in PDF format:

DOWNLOAD AS *.PDF

Select from the list of centers to view items offered by a particular center. Select from the list of group by options to view the catalog grouped by center, center core, or subject. You can also select keywords to limit search results.

Center	Case Western Reserve University
Group By	Center Core
Keywords	Click here to select keywords

Search | Reset

Click on a column header to sort items by that column.
Click on the center name, center core name, subject or test name for more information.

CASE WESTERN RESERVE UNIVERSITY

Analytical Core

Test No.	Test Name	Price	Keywords
CA2011	Total Energy expenditure using 2H2O-labeled water	$100.00 / 4 samples / mouse	energy expenditure, water
CA2015	Turnover of glucose, lipid and/or protein	$200.00 / 4 samples / mouse	
CA2016	Fatty acid and cholesterol synthesis using 2H-labeled water	$75.00 / sample	
CA2017	Tissue-specific protein synthesis using 2H2O-labeled water	$150.00 / sample	amino acids, metabolism, protein synthesis
CA2018	Profile of acylcarnitines in plasma/urine tissue samples	$75.00/plasma or/urine sample $90.00/tissue sample	
CA2019	Profile of long chain acyl-CoAs in tissue	$150.00 per sample [for concentration]	
CA2020	Measurement of acetyl-CoA, propionyl-CoA and/or succinyl-CoA in tissue	$225.00/sample (concentration) and C13 labeling pattern	
CA2021	Measurement of Methylmalonyl-CoA in tissue	$225.00/sample (concentration) and C13 labeling pattern	
CA2022	13C-Labeling pattern of acetyl moiety of citrate (substrate oxidation)	$110/sample	
CA2023	Activity of acetyl-CoA carboxylase or malonyl-CoA decarboxylase in tissues	$75.00 per assay	
CA2024	Metabolomic profile of citric acid cycle and gluconeogenic intermediates	$150.00 / sample [for concentration]	
CA2041	Tissue processing by Pathology Core (embedded in paraffin)		histology, tissue preparation
CA2042	Tissue processing by Pathology Core (H&E staining)		histology, staining, tissue preparation
CA2043	Protal vein injection and tissue collection (at 0 min. & 5 min.)		tissue preparation
CA2044	Brain uptake and bloodflow (includes femoral catherization)		blood flow, brain
CA2045	Measurement of ATP/ADP concentration in tissue		ATP, tissue

Metabolic Core

Test No.	Test Name	Price	Keywords
CA2000	Body composition using 2H-labeled water	$20.00 / sample	body composition, body weight, fat
CA2001	Food Consumption	$5.00 / animal / day	food intake
CA2002	Body Weight	$5.00 / animal / day	body composition, body weight, food intake
CA2003	Continuous measurement of body temperature	$5.00 / animal / day	energy expenditure, exercise
CA2004	Glucose tolerance tests (GTT)	$52.00 / animal / test	carbohydrate metabolism, diabetes, glucose
CA2005	Insulin concentrations at fasting and post intraperitoneal glucose administration		insulin, insulin secretion
CA2006	Plasma insulin measurement by ELISA	$9.50 / mouse	carbohydrate metabolism, insulin, insulin action
CA2007	Insulin concentrations at fasting and post intraperitoneal insulin administration		
CA2008	Glucose concentrations at fasting and post intraperitoneal insulin administration - insulin tolerance test (ITT)		carbohydrate metabolism, diabetes, insulin sensitivity
CA2009	Triglycerides in liver		lipids, liver
CA2010	Plasma triglycerides		plasma
CA2013	Hyperinsulinemic Clamp (Hypoglycemic or Euglycemic) using stable isotopes	INQUIRE / animal / test	
CA2025	Chronic arterial and jugular vein catherization	$51.00 / animal	catheterization, surgery
CA2026	Chronic arterial or jugular vein catherization	$28.00 / animal	catheterization, surgery
CA2027	Acute arterial and jugular vein catherization	$40.00 / animal / test	catheterization, surgery
CA2028	Acute arterial or jugular vein catherization	$22.00 / animal / test	catheterization, surgery
CA2029	Acute portal vein catherization	$47.00 / animal / test	catheterization, surgery
CA2030	Implant [G2 E – Mitters™]	$20.00 / animal	surgery
CA2031	Long-term analysis of surgery implantation on Min-Mitter™	$20.00 / animal	surgery
CA2032	Metabolomic profile of organic acids in plasma		metabolism, plasma
CA2033	Metabolomic profile of organic acids in urine		metabolism, urine
CA2034	Metabolomic profile of organic acids in tissue		metabolism, tissue
CA2035	Metabolomic profile of amino acids in plasma		amino acids, metabolism, plasma
CA2036	Metabolomic profile of amino acids in urine		amino acids, metabolism, urine
CA2037	Metabolomic profile of amino acids in tissue		amino acids, metabolism, tissue
CA2038	Metabolomic profile of free fatty acids in plasma		fatty acids, metabolism, plasma
CA2039	Metabolomic profile of free fatty acids in urine		fatty acids, metabolism, urine
CA2040	Metabolomic profile of free fatty acids in tissue		fatty acids, metabolism, tissue

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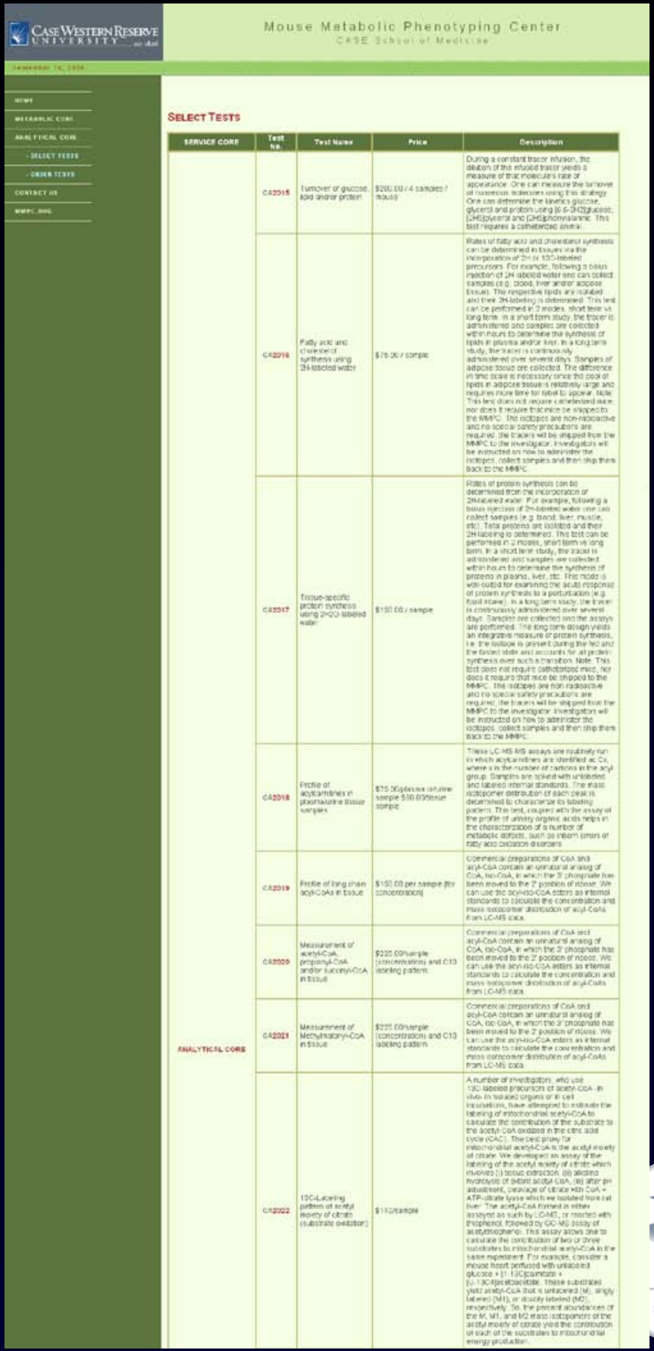
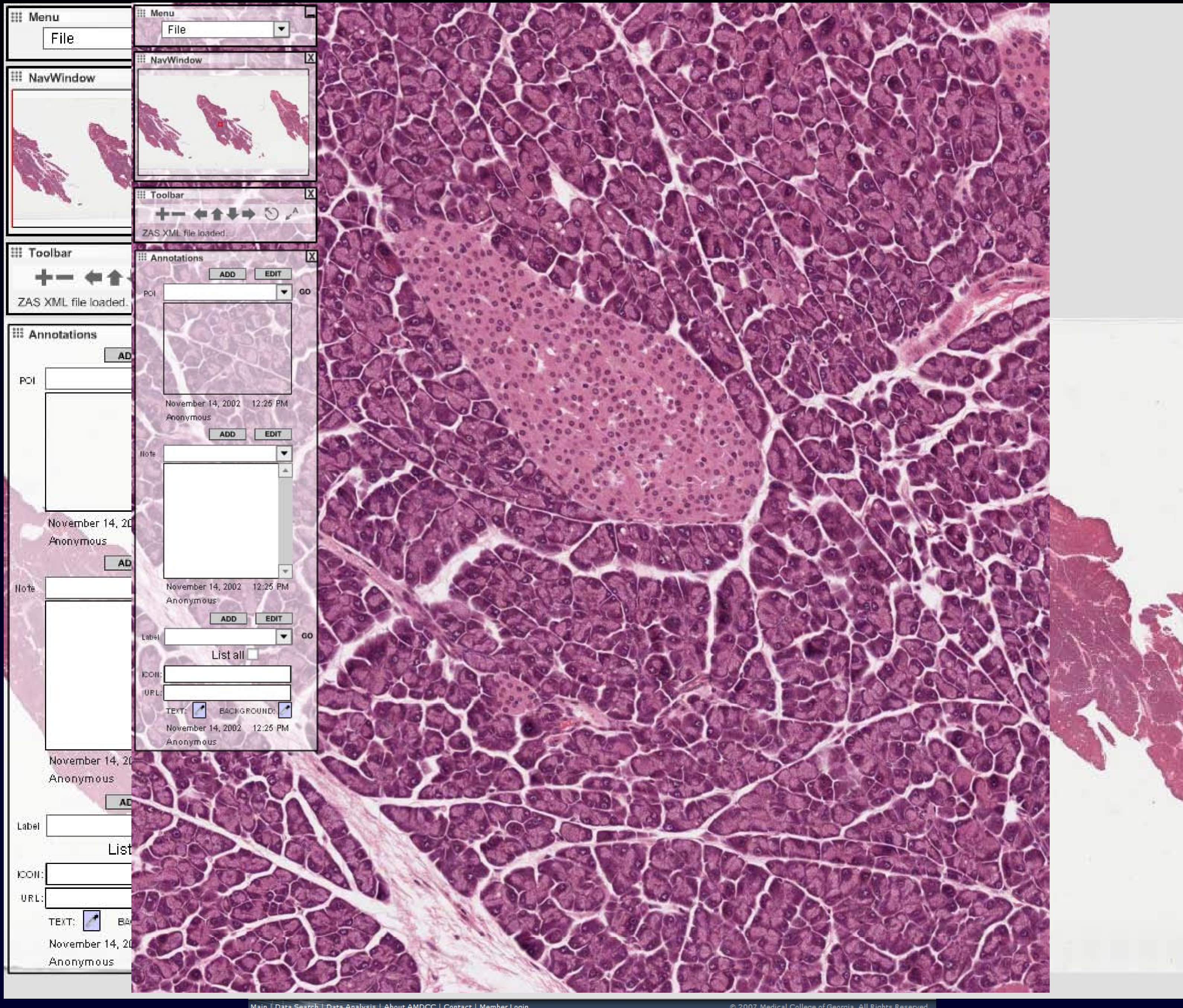


Have started to scan slides for investigators using Aperio Slide Scanner.



The End

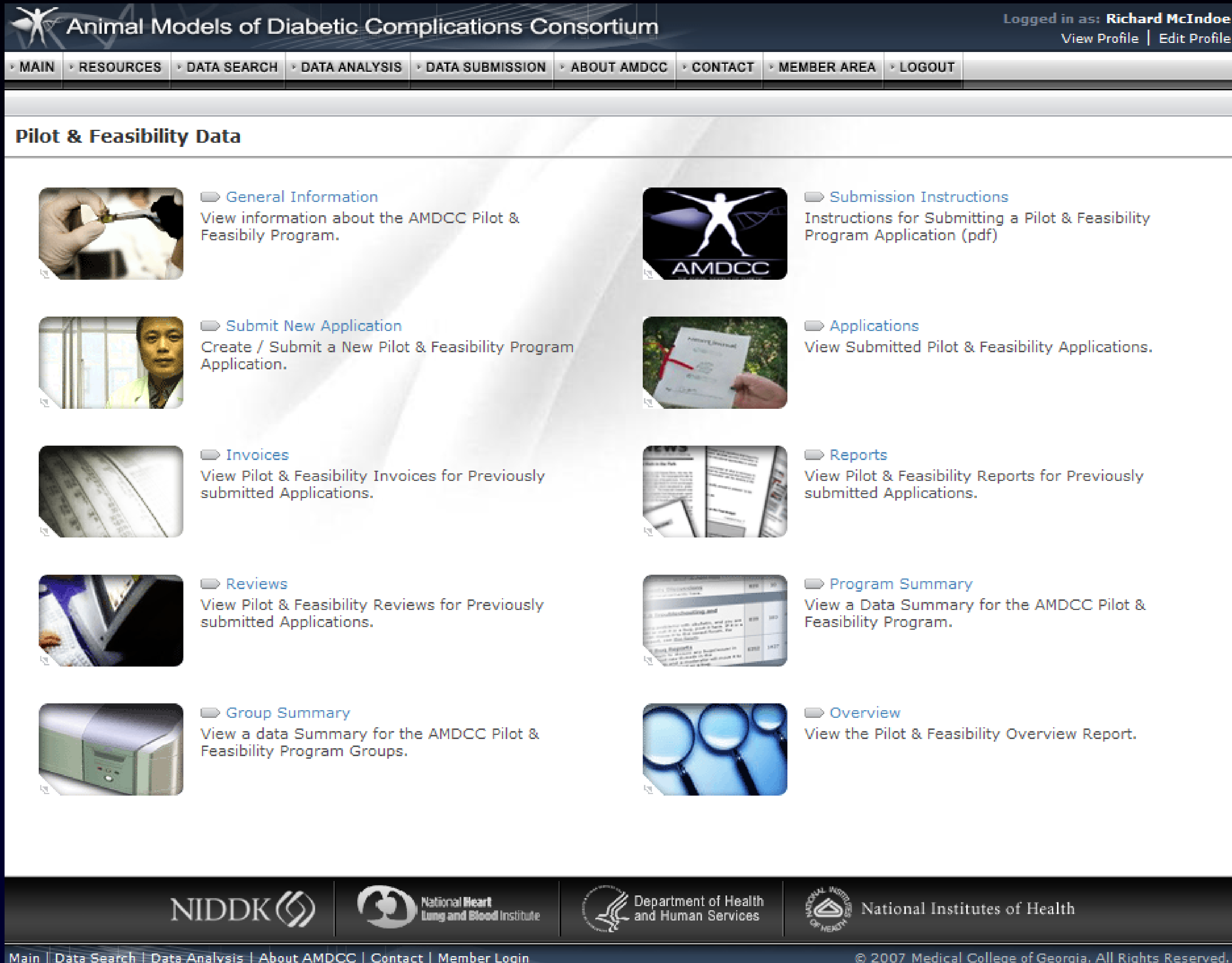
If you have any problems, questions or concerns don't hesitate to email us.
Use any of the following addresses:

General web:
amdcc_web-l@lists.amdcc.org (Listserv)

Data, assays, experiment help:
miaufiero@mail.mcg.edu (Michael Aufiero)

Website
vdoshi@mail.mcg.edu (Vishal Doshi)

Activated the Pilot & Feasibility infrastructure to manage and review applications.



AMDCC