

2008 Steering Committee Meeting

Database Discussion

MMPC 2008 Steering Committee meeting – Database Discussion

- 1) Review of current data in the system
- 2) Future requirements for data and data entry
- 3) Examples of what can be done once data is in system



	Center	Orders Pending	Orders Accepted	Orders Completed	Orders Rejected	Experiments	PhenoAssays	Measurements	Animals	Strains	Publications
Current Year	Case Western Reserve University	9	0	0	0	0		0	0	0	0
	University of Cincinnati Medical Center	2	1	0	0	1		0	0	0	8
	University of Texas Southwestern Medical	0	0	0	0	0		0	0	0	16
	Vanderbilt University School of Medicine	5	14	15	4	4	51	1387	18	2	80
	University of Washington, Seattle	6	10	6	1	3	11	375	15	2	0
	Yale University School of Medicine	11	5	2	0	4	38	406	29	2	53
Second Round	Case Western Reserve University	9	0	0	0	0		0	0	0	NA
	University of Cincinnati Medical Center	6	10	28	0	1		0	0	0	NA
	University of Texas Southwestern Medical	2	0	0	0	0		0	0	0	NA
	Vanderbilt University School of Medicine	5	27	112	14	4	51	1387	18	2	NA
	University of Washington, Seattle	6	11	35	1	5	11	375	15	2	NA
	Yale University School of Medicine	30	7	6	0	4	38	406	29	2	NA
First Round	University of Cincinnati Medical Center	1	8	123	9	0		0	0	0	NA
	Center	5	0	18	3	0		0	0	0	NA
	Vanderbilt University School of Medicine	0	1	807	138	47	82	22230	1245	45	NA
	Yale University School of Medicine	16	34	51	3	12	23	4413	247	11	NA

First Round data has been entered into the new system



IPGTT and Insulin Sensitivity(TSC1c vs. C57BL/6J)- May 3, 2007

SUMMARY	DATA SUMMARY			
Investigator	Yeung, Raymond	Туре	Count	
	Performed IPGTT on two mice provided by Dr. Yeung. We also used our own five C57BL/6J mice as controls for this experiment. Mice were fasted for 16 hours and	Animals	7	
	1mg/g body glucose was injected intraperitoneally.	Experimental Conditions	5	
	Blood glucose measurements were obtained at 0, 5, 15, 30, 60, and 120 minutes with the OneTouch Ultra blood glucose monitoring system and test strips.	Catalog Items	0	
Description		Phenotype Assays	3	
	About 50ul of blood was collected at 30' during IPGTT for insulin analysis.	Phenotype Measurements	252	
	The purpose of this experiment was to compare and understand how Dr. Yeung's two mice reacted to intraperitoneal injection of glucose. This will help Dr. Yeung	Histology Images	0	
	understand the mice's insulin levels and how sensitive they are to glucose.			
Status	Completed			
Public Release	9/17/2010			

ANIMALS Add / Edit

Strain Name	Common Name	Females	Males	Unknown	
C57BL/63	C57BL/6J	5	0	0	
STOCK Tsc1 ^{tm1Djk} /J	STOCK Tsc1 ^{tm1Djk} /J	2	0	0	

EXPERIMENTAL CONDITIONS	Add / E
EXI EIGHENTAL CONDITIONS	

Name	Units				
Experimental Group	one of [Control, Experiment]				
fast duration	hour (hr)				
glucose dose	milligrams per kilogram (mg/kg)				
insulin dose	units per kilogram (U/kg)				
time sample taken	minute (min)				

PHENOTYPE ASSAYS	Add / Edit

N	lame	Abbreviation
Ь	lood glucose	blood glucose
Ь	ody weight (rodent)	W rodent
Ь	olood insulin	blood insulin

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Mouse Diet

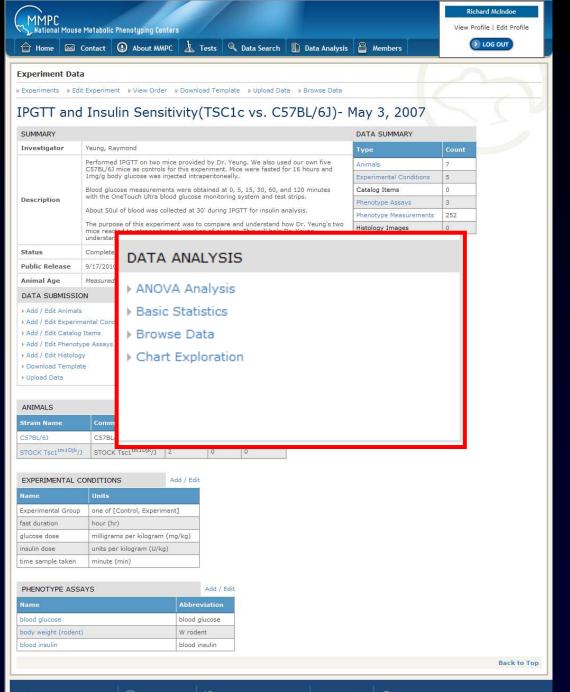
	Name *	Description
-	Experimental Factor: m	ouse diet
	3mAIN76(HF0.18)	AIN76 high-fat 0.18% cholesterol fed 3mos @ 3mos old
	3mAIN76(HF0.18)early	AIN76 high-fat 0.18% cholesterol fed 3mos @ 4wks old
	3mAIN76(HF0.3)	AIN76 high-fat 0.3% cholesterol fed 3mos @ 3mos old
	3mAIN76(HF0.3)early	AIN76 high-fat 0.3% cholesterol fed 3mos @ 4wks old
	3mAIN76(LF0.1)	AIN76 low-fat 0.1% cholesterol fed 3mos @ 3mos old
	3mAIN76(LF0.1)early	AIN76 low-fat 0.1% cholesterol fed 3mos @ 4wks old
	3mAIN76(LF0.15)	AIN76 low-fat 0.15% cholesterol fed 3mos @ 3mos old
	3mAIN76(LF0.15)early	AIN76 low-fat 0.15% cholesterol fed 3mos @ 4wks old
	4mAIN76(LF0.0)early	AIN76 low-fat 0.0% cholesterol fed 4 months @ 4wks old
	4mAIN76(LF0.02)	AIN76 low-fat 0.02% cholesterol fed 4mos @ 4wks old
	4mAIN76(LF0.15)early	AIN76 low-fat 0.15% cholesterol fed 4 months @ 4wks old
	4mAIN76(LF0.3)early	AIN76 low-fat 0.3% cholesterol fed 4 months @ 4wks old
	4mAIN76(LF0.5)early	AIN76 low-fat 0.5% cholesterol fed 4 months @ 4wks old
	4wAIN76(HF)	AIN76 high-fat fed 4wks @ 3mos old
	4wAIN76(LF)	AIN76 low-fat fed 4wks @ 3mos old
	AIN76(HF)	AIN76 high-fat
	AIN76(HF0.18)	AIN76 high-fat 0.18% cholesterol
	AIN76(HF0.30)	AIN76 high-fat 0.30% cholesterol
	AIN76(LF)	AIN76 low-fat
	AIN76(LF0.00)	AIN76 low-fat 0.00% cholesterol
	AIN76(LF0.02)	AIN76 low-fat 0.02% cholesterol
	AIN76(LF0.10)	AIN76 low-fat 0.10% cholesterol
	AIN76(LF0.15)	AIN76 low-fat 0.15% cholesterol
	AIN76(LF0.30)	AIN76 low-fat 0.30% cholesterol
	AIN76(LF0.50)	AIN76 low-fat 0.50% cholesterol

BioServ F3282	Rodent Hig Fat Diet. Protein 20.%, Fat 35.5%, Fiber 0.0%, Ash 3.2%, Moisture <5.0%, Carbohydrate 36.3%. Ingredients: Lard, Casein, Dextrose, Sucrose, DL-Methionine, Choline Chloride, Vitamin Mix and Mineral Mix
Harlan8604	Harlan Teklad No.8604 (6% fat by weight)
Harlan90221	Harlan Teklad No. 90221 75% chow, 7.5% casein, 7.5% cocoa butter, 2.5% dextrose, 1.625% sucrose, 1.625% dextrin, 1.25% cholesterol, 1.25% cellulose, 0.875% mineral mix (AIN- 76), 0.25% vitamin mix (Teklad 40060), 0.125% choline chloride, and 0.5% cholate
HarlanTD 7012	Crude Protein (Min) 19.0%, Crude Fat (Min) 5.0%, Crude Fiber (Max) 5.0%, Protein %19.92, Fat %5.67, Fiber % 4.37, Ash %6.48, Ingredients - Ground corn, dehulled soybean meal, ground oats, wheat middlings, dehydrated alfalfa meal, soybean oil, corn gluten
HarlanTD88317	Harlan Teklad TD.88317 (Western Diet)
LabDiet 5001	crude protein (23.0%), crude fat (4.5%), crude fiber (6.0%), Ash (< 8.0%), minerals (2.5%)
LabDiet 5008	crude protein (23.0%), crude fat (6.5%), crude fiber (4.0%), Ash (< 8.0%), minerals (2.5%)
LabDiet 5K52	LabDiet JL Rat and Mouse/Auto 6F This is a breeding diet used at the Jackson Laboratory. Protein 19.3%, Fat (ether extract) 6.2%, Fat (acid hydrolysis) 7.2%, Fiber 4.3%, Ash 6.5%. Ingredients: Ground wheat, ground corn, wheat middlings, grounoats, fish
LabDiet 5LG4	LabDiet JL Rat and Mouse/Irr 6F diet formulas used for breeding and maintenance at The Jackson Laboratory. Protein 19.3%, Fat (ether extract) 6.2%, Fat (acid hydrolysis) 7.2%, Fiber 4.3%, Ash 6.5% Ingredients: ground wheat, ground corn, wheat middlings
LabDiets-5LA6	NIH Rat & Mouse/Auto 11F 19.7% Protein, 12.2% Fat (ether extract), 13.1% Fat (acid hydrolysis), 4% Fiber, 6.3% Ash. Ingredients: ground wheat, wheat middlings, grounoats, dehulled soybean meal, fish meal, groun corn, soybean oil, corn gluten meal, dehydr
Surwit58Cornstarch	Surwit 58% kcal fat with cornstarch (Research Diets D12330)
Surwit58Sucrose	Surwit 58% kcal fat with Sucrose (Research Diets D12331)
Western	Western Diet (Research Diets #D12079B)

Need to unify assay names so they are consistent from center to center

Need to start collecting protocols for the MMPC tests.









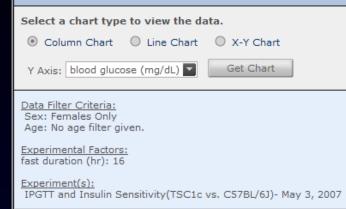




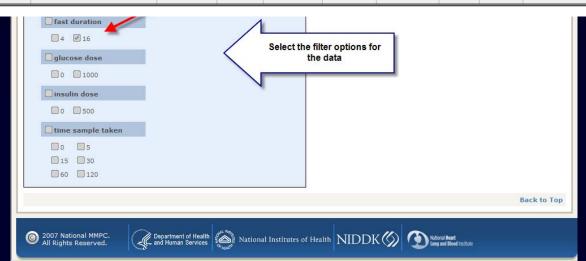




Basic Statistics Results



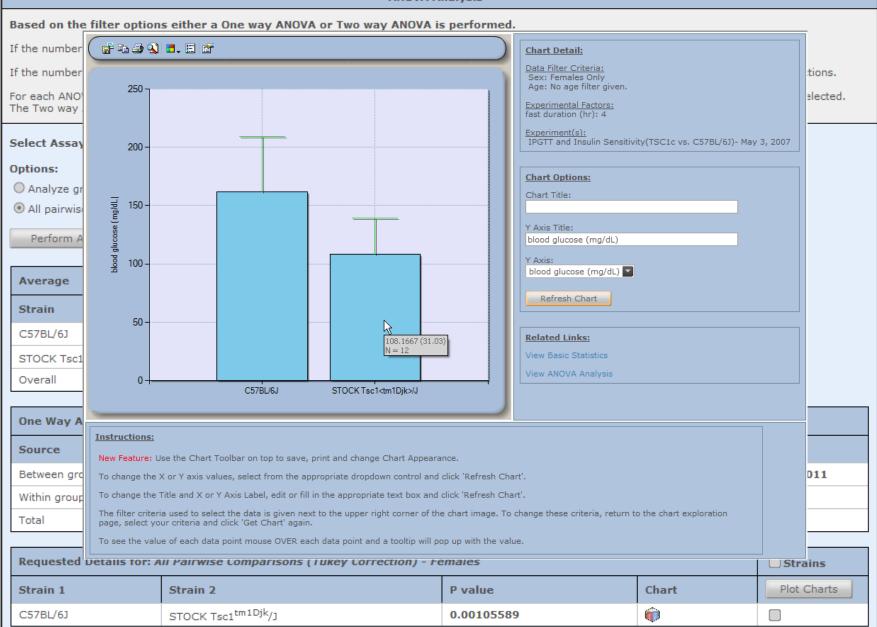
Assay	Strain	Sex	Num	Avg	Stdev	Median	Min	Max	Var	Skewness	Kurtosis
blood glucose (mg/dL)	C57BL/6J	Females	30	180.333	77.743	185.5	66	331	6043.956	0.14	-1.169
	STOCK Tsc1 ^{tm1Djk} /J	Females	12	106.417	48.023	101.5	53	210	2306.243	0.858	-0.35
W rodent (g)	C57BL/6J	Females	30	20.56	0.761	20.3	19.6	21.5	0.578	0.157	-1.666
	STOCK Tsc1 ^{tm1Djk} /J	Females	12	21.05	0.45	21.05	20.6	21.5	0.202	0	-2







ANOVA Analysis





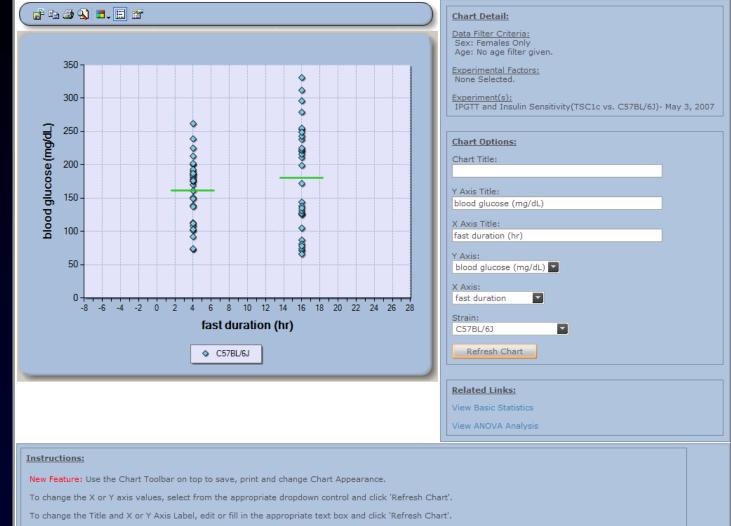












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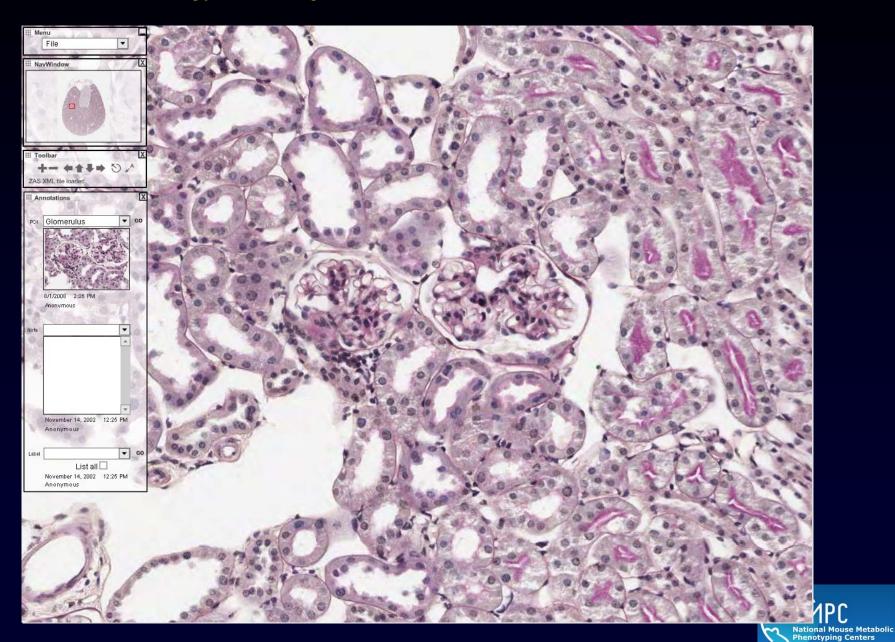
The filter criteria used to select the data is given next to the upper right corner of the chart image. To change these criteria, return to the chart exploration

To see the value of each data point mouse OVER each data point and a tooltip will pop up with the value.

page, select your criteria and click 'Get Chart' again.



Histology and image data can be added and annotated.



The End

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

General help: help@mmpc.org

Data, assays, experiment help: datahelp@mmpc.org

Website problems webadmin@mmpc.org

