

**Animal Models of Diabetic Complications Consortium
(U24 DK076169-01)**

**Annual Report
(2008)**

**“Coordinating and Bioinformatics Unit for the AMDCC/MMPC”
Medical College of Georgia**

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**Animal Models of Diabetic Complications Consortium
(U24 DK076169-01)**

Part A:

Principal Investigator's Summary

1. Program Accomplishments:

AMDCC/MMPC Infrastructure Re-Design

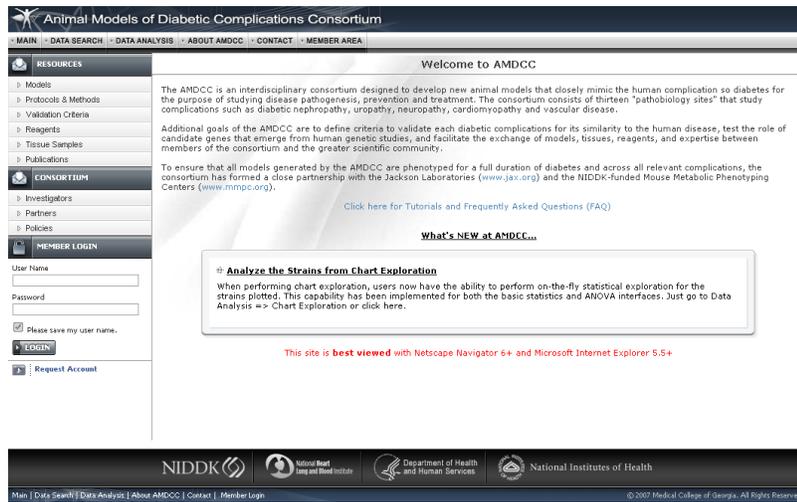
During this last funding period, with respect to the web portals for the AMDCC and MMPC we were focused on the re-design of the AMDCC web portal and the addition of the Funding Program software infrastructure for the MMPC. This effort required us to re-write/create key pages of the AMDCC, develop a better overall theme of data flow through the AMDCC website, add object models enhancements to both and redesign the database schemas for both. These design changes are technological advancements for the websites as a whole while others are more functional additions and enhancements. The following sections will describe these changes in more detail with example figures presented when appropriate.

AMDCC Portal re-design The current design of the AMDCC web portal is more consortium centric in its flow with overall consortium metrics provided. In general the current incarnation is more akin to an electronic laboratory notebook and requires outside users to understand the infrastructure of the consortium. While this design is functional and provides excellent data management capabilities, it does not provide the public with an easy and conceptual flow to get the information on the strains phenotyped and developed by the consortium. In addition, during this second round of the AMDCC, the focus of the models/strains is much more restricted with their phenotyping being highly regimented and coordinated via the Mouse Generation and Husbandry Core. We have decided to re-focus the web portal to be more model/strain centric relative to the animals being phenotyped/developed during this second round of the AMDCC. Also, we want to make it easier to find complication specific information as it relates to the models/strains, protocols, reagents, etc. In order to make these changes as flexible as possible it required that we develop a software engine to automate the complication validation and experiment criteria.

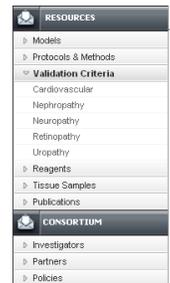
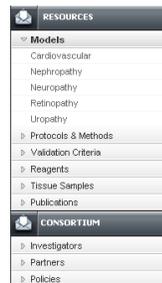
Model Centric Web Portal Because the strains in the second round of the AMDCC are very specific, we will focus the new website on these strains/models. The MGHC will provide the baseline phenotyping and data for all the animal models developed during this second round. The implications of these two concepts is that the data from the first round will be essentially “archived” with the default view of the web pages being the new data generated during the second round of the AMDCC. Although we will archive the old first round data, we want this data to be available to the public if they request it. However, since we have decided that the web pages and data presented to the public will default to the new data generated in the second round, we will have to develop a strategy that allows us to essentially flag the old vs new data. Because our new system has the concept of multiple consortium, we decided to create a new “consortium ID” (ID=3) for the second round with all new data added to the system being tagged with this ID (meaning the old data would be ID=1). New pages on the site will default to consortium ID = 3 with the older archived data being available by passing an ID=1 to the page when we want to grab the older data. This change required a re-write of web pages, not only to default to the new ID, but also re-focus the context to be strain/model centric.

Complication Specific Information. As stated previously, to make the portal easier to find complication specific resources and information we will re-design the web site. The figure below is a picture of the new home page for the AMDCC. As can be seen, we have significantly reduced the amount of “clutter” on the home page and focused the portal to be complication

specific. For example, clicking on the Model resource provides the user with access to each of the complication specific models/strains. We are in the process of updating and creating all the web pages necessary for the new portal (more examples will be given below).



Models/Strains information
 Protocols and Methods used
 Validation Criteria for the various complications
 Tissue Samples used (reagents)
 Publications of the AMDCC



Complication Validation Criteria One of the main goals of this new redesign is to provide a bird's eye view of each mouse model and how well the strain phenotype fits specific complication phenotypes. Each of the complication committees is responsible for determining what experimental outcomes define a valid model for a particular complication. These validation criteria can be quite complicated and include criteria that are not simple mathematical inequalities (e.g. blood glucose ≥ 200 mg/dL). They can include quantitative ranges, change of values over time or categorical conclusions (e.g. presence of fibrosis). In order to provide a flexible system, we decide to develop an algorithm that allows us to define specific rules for the validation criteria and use those rules to determine whether or not a strain passes the criteria. To accomplish this goal, we created the database schema to store the rules as well as the object model to interpret and implement the rules. Because we had previously developed the concept of datasets, the validation criteria API uses a dataset object as the input for the data to validated against. We will store predefined datasets for each complication as well as the baseline phenotyping protocol. An advantage of using datasets as the input is that it provides the user with the ability to run "what-if" scenarios on different data. We have completed the database schema, object model and validation criteria generation pages and will be implementing them on the new web pages. As an example of what will be possible, the figures below illustrate the pages to create and view the validation criteria (Figures 1 and 2) and a hypothetical page for the Nephropathy Models using the nephropathy validation at the AMDCC (Figure 3). As can be seen, all the nephropathy models are listed with the various complication specific phenotyping criteria. For each of the assays that define the validation criteria, the system will automatically color code the cells based on whether or not that model passes those specific criteria. In addition, we can develop AJAX based data retrieval that occurs during mouse over events to present more data (this is illustrated by the graph generated while hovering over the GFR cell).

Animal Models of Diabetic Complications Consortium

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

Validation Criteria View Edit Definition

Edit Validation Criteria

Cardiovascular

Assay:

Criteria	Operator	Value	
<input checked="" type="checkbox"/>	>	70	(min)
<input checked="" type="checkbox"/>	<	80	(max)

Conditions:

No experimental conditions found.

Options	Phenotype Assay	Criteria	Units	Conditions
<input type="button" value="✎"/> <input type="button" value="✕"/>	blood glucose	x > 30	mg/dL	
<input type="button" value="✎"/> <input type="button" value="✕"/>	fasting glucose	70 < x < 80	mg/dL	
<input type="button" value="✎"/> <input type="button" value="✕"/>	glomerular filtration rate	x < 150	g/kg	

Figure 1. Interface to create validation criteria. Validation criteria can be any number of conditions based on assays or experimental factors.

Animal Models of Diabetic Complications Consortium

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

Validation Criteria Edit Definition Edit Criteria

Validation Criteria

Cardiovascular

Type	Cardiovascular
Dataset	AMDCC Baseline Phenotyping
Description	The AMDCC Cardiovascular Committee has the principal function of developing strategies and protocols for the creation and/or modification of animals models for diabetic complications of the heart and cardiovascular system. This committee develops strategies for creating these animal models using transgenic and knockout technologies. Standard protocols and criteria for the induction, analysis and interpretation of the heart and vascular pathology are also developed.

CRITERIA

Phenotype Assay	Criteria	Units	Conditions
blood glucose	x > 30	mg/dL	
fasting glucose	70 < x < 80	mg/dL	
glomerular filtration rate	x < 150	g/kg	

VALIDATION RESULT

Model	blood glucose	fasting glucose	glomerular filtration rate
129.A	39.00	76.42	144.75
C57BL/6	29.33	74.00	89.17
STOCK-Ins ^{1lox/lox}	49.83	87.33	179.42

Figure 2. Interface to view validation criteria. Validation criteria can be any number of conditions based on assays or experimental factors.

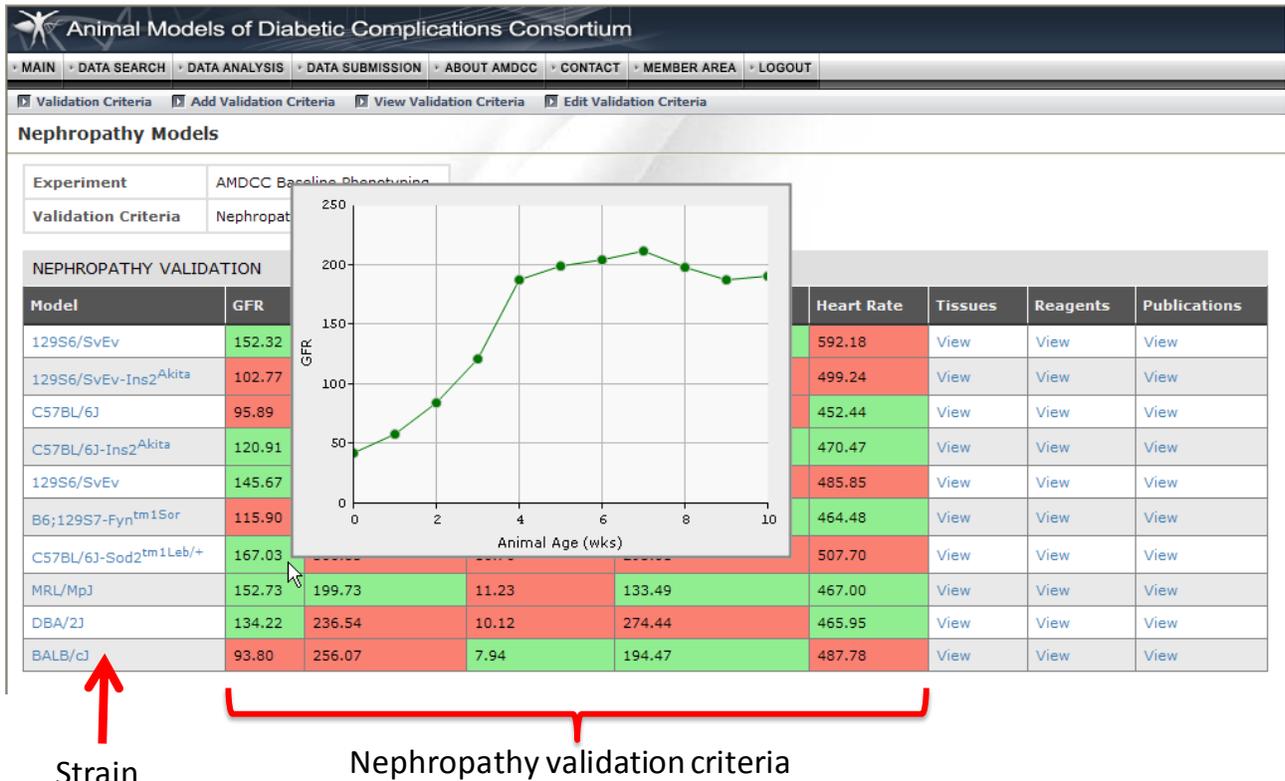


Figure 3. Example of the validation criteria being used on the Nephropathy models page. The cells for each of the conditions required for Nephropathy Validation are color coded as to whether or not that strain meets the criteria.

Tissues/Reagents/Publications As part of the redesign effort and to make the AMDCC web portal more useful as a repository of information, we have added the concept of reagents to the system. Reagents are any of the biological materials used to create and evaluate the animals. We currently have the ability to accept both primers and vector information and will add additional reagents as necessary. We are also providing links to the reagents, tissues and publications as they relate to the various models/strains in the system. This can be seen in Figure 3 above in the right 3 columns.

MMPC Portal Updates

During the last year, the MMPC has increased the number of funding programs available to the public. As we increased these activities, it became clear that we will need to streamline the process of application submission/review and application tracking. To do this we created an extensive infrastructure to store, manage and organize the funding program activities of the consortium. This required us to develop the database schema, object model and web pages to deal with this information and workflow. As part of the workflow of the application and review process, automated emails are sent out to the investigators, reviewers and program staff at key points during the submission/review workflow. Applications require that investigators have an account in the system and provide the institutional finance and budget information. The actual application is a truncated form of the PHS398 application in PDF format. We can assign reviewers and have the review scores and critiques uploaded to the system. The figures below illustrate the application submission page and the reviewer assignment page. As can be seen, the applicant can navigate the tab based submission form to provide specific information followed by clicking the submission button. After the application has been submitted, the MMPC

administrators can assign reviewers to the application. This triggers an email to each of the reviewers. The system has been completed and is functional. The submission documentation is attached to this report as part of the appendix. In addition, since the AMDCC has decided to begin to fund Pilot & Feasibility projects, we can use the entire infrastructure we built for the MMPC on the AMDCC site.

MMPC
National Mouse Metabolic Phenotyping Centers

MMPC Client
View Profile | Edit Profile
LOG OUT

Home Contact About MMPC Tests Data Search Data Analysis Clients

Add Funding Program Application

Applications > Funding Programs

Please review your profile information displayed in the 'Applicant' tab then proceed to the 'Finance' tab and fill out as much information as possible regarding the Institution Financial Officer (IFO) and IACUC.

Under the 'Budget' tab enter the Salary, Supply, Equipment, and Travel Costs (direct costs) and indirect costs. Please ensure that the total costs proposed are less than or equal to the Funding Program maximum total costs.

Click the 'Application' tab to enter your Funding Program Application Project Title, Abstract, and upload your documentation (pdf). Finally, click the submit button.

Fields with an asterisk (*) are required.

*Funding Program Group:
Pilot & Feasibility [PF2008]

Applicant	Finance	Budget	Application
*First Name	MMPC		
*Last Name	Client		
*Position Title	Computer Programmer		
*Mailing Address Line 1	1120 15th Street		
Mailing Address Line 2	CA-4147		
*City	Augusta		
*State	GA		
*Zip Code	30919		
*E-Mail Address	client.mmpc@gmail.com		
*Telephone	(444) 555-6666		
Fax			

Submit Cancel

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MMPC
National Mouse Metabolic Phenotyping Centers

Richard McIndoe
View Profile | Edit Profile
LOG OUT

Home Contact About MMPC Tests Data Search Data Analysis Members

Funding Program Reviewers

Administration > Funding Programs > Funding Program Groups > Applications

Funding Program Group: Pilot & Feasibility [PF2008]

Select Application: MRI Phenotyping of Murine Diabetic Retinopathy

Reviewers			
<input type="checkbox"/> Abumrad, Nada	<input checked="" type="checkbox"/> Aufiero, Mike	<input type="checkbox"/> Bayliss, Douglas	<input type="checkbox"/> Moses, Hal
<input type="checkbox"/> Arafat, Hwyda	<input checked="" type="checkbox"/> Ayala, Julio	<input type="checkbox"/> Behar, Kevin	<input checked="" type="checkbox"/> Reviewer, MMPC
<input type="checkbox"/> Ashar, Hena	<input type="checkbox"/> Balasubramaniam, Ambikaipakan	<input type="checkbox"/> Doshi, Vishal	<input checked="" type="checkbox"/> Sheriff, Sulaiman
<input type="checkbox"/> Aufiero, Michael	<input type="checkbox"/> Bartke, Andrzej	<input type="checkbox"/> McIndoe, Richard	<input type="checkbox"/> Zuberi, Aamir

Click here to add a current MMPC user as a Reviewer

Submit Cancel

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MMPC Specific Information

During this last cycle, we will have conducted two funding program solicitations. The first is the yearly Pilot and Feasibility program and the second was the first two quarters for the newly created MICROMouse program. The 2007 P&F program had 18 applications with 7 being funded through the MMPC (two applications were full and partially funded through the AMDCC). These awarded applications will be completed in October of 2008. The newly created MICROMouse program accepts applications throughout the year with reviews occurring quarterly. We are in the process of completing the review of two applications during the first quarter of 2008 and soliciting applications for the second quarter.

Future Plans

We will continue the development of the web portals, increasing the functionality and accessibility of the data generated by the AMDCC and MMPC consortia. We will begin to develop the updated AMDCC web services and start to develop the MMPC web services. In addition, we will be developing better data exploration and statistics tools as we talk to investigators to understand what needs they have. We will also work on developing the microarray analysis/visualization tools that include network analysis. We will also continue our work on the controlled vocabularies for histology and enhanced analytical tools as well as work with the UTSW group to incorporate MRI data in the MMPC web portal

2. Address previous EAC comments:

NOT APPLICABLE THIS YEAR

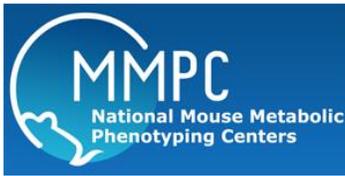
3. Publications:

ParaKMeans: Implementation of a Parallelized K-means algorithm Suitable for General Laboratory Use. Piotr Kraj, Ashok Sharma, Robert Podolsky, Nikhil Garge and Richard A McIndoe. 2008 BMC Bioinformatics 9:200

A Modified Hyper plane Clustering algorithm allows for efficient and accurate clustering of extremely large datasets. Ashok Sharma, Robert Podolsky, Nikhil Garge and Richard A. McIndoe. *Manuscript in preparation*

A parallelized version of the Significance Analysis of Microarrays algorithm provides a significant increase in speed and dataset size for gene expression analysis. Ashok Sharma, Robert Podolsky and Richard A. McIndoe. *Manuscript in preparation*

APPENDIX



MMPC Funding Programs Submission Documentation

Richard A. McIndoe, Ph.D.
MMPC Coordinating and Bioinformatics Unit

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FAX: 706-721-3688

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Statement of Purpose:

The purpose of this document is to provide an overview of the submission process for the MMPC Funding Programs.

What are the MMPC Funding Programs?

The Mouse Metabolic Phenotyping Centers provide access to multiple funding mechanisms to encourage the development of new and novel tests as well as enhance research activities that use the MMPC infrastructure. These funding programs are open to the public and submission requirements are variable based on the program. Each of the funding programs sponsored by the MMPC have a specific focus and intent.

The MMPCs currently have two funding programs available to the public, the Pilot and Feasibility program (P&F) and the MICROMouse (MM) program. The P&F program supports research into the development of new techniques and tests for the metabolic characterization of mice. The MM program provides support for high quality metabolic studies of mouse models in connection with one or more of the MMPCs.

What web browsers are compatible with the MMPC web portal?

The MMPC website can use any upper level browser (e.g. Java must be enabled). We have tested the portal on FireFox, Internet Explorer 6/7 and Opera. Occasionally we have had problems with the Safari browser on Macs. If this happens please try Firefox or IE. However, since we code in .NET 2.0, the best browser to use is Internet Explorer 7 (IE7) as Microsoft provides some added functionality with .NET sites.

What are the minimum technical requirements for submitting a Funding Program application to the MMPC?

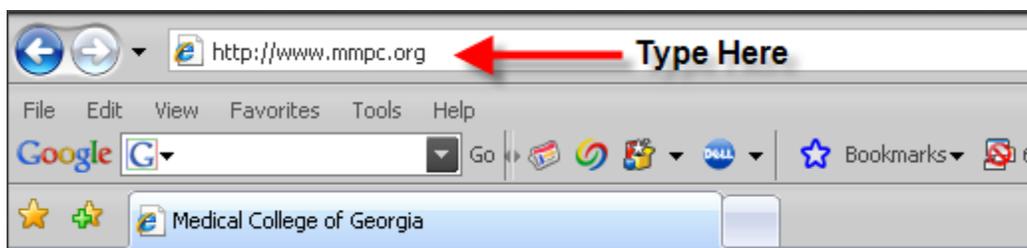
In order to submit an application for one or more MMPC Funding Programs, you must have:

- 1) A compatible web browser (see above)**
- 2) An MMPC user account (see below)**
- 3) The ability to create PDF documents.**

The application uses an abbreviated form of the NIH PHS398 format and is submitted as a single PDF document. Please go to the MMPC website for more detail on the specifics for each program application. If you don't have a PDF creator, there are free programs available via the internet. For example, OminFormat from Software995 is free and can be installed on a local machine to convert many document types to PDF (<http://www.omniformat.com/index.html>). Alternatively, if you use Microsoft Word, you can download the free addin that will allow you to save your document as a PDF file (<http://www.microsoft.com/downloads/details.aspx?FamilyId=4D951911-3E7E-4AE6-B059-A2E79ED87041>).

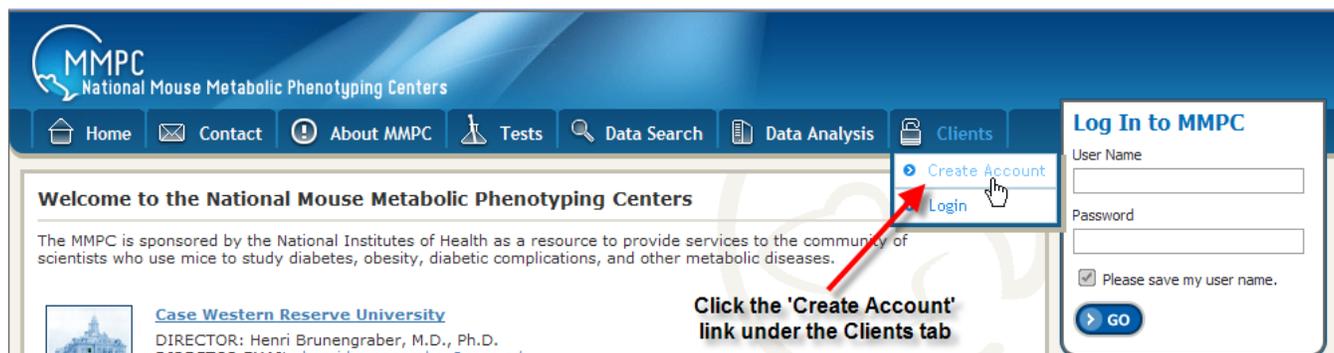
How do I get to the MMPC Web portal?

In order to connect to the MMPC Web Portal, open your web browser (IE7 preferred) and type the following URL in the web address bar: <http://www.mmpc.org>. Click enter to go to the MMPC Portal.



How do I get an account on the MMPC web portal?

As stated above, in order to submit an application, applicants must have an account on the MMPC web portal. If you do not have an account, you will need to create one before you can proceed. To create an account, go to the MMPC Web Portal (<http://www.mmpc.org>) and click the 'Create Account' link under the Clients tab on the menu across the top of the website (see below).



- ❖ In the 'Create Account' page, please provide the requested information. Please note that all items with a red asterisk (*) are required. For the institution, please begin to type the name of your institution and a drop down will fill with institutions matching the text you are typing. Once you see the institution, select it by scrolling to it or a mouse click. After completing the form, click the 'Submit' button to register with the MMPC. If the account was successfully created, the resulting page will confirm this and you will receive an email with a temporary password (see below).

Create Account

Fields with an asterisk (*) are required.

***First Name**

***Last Name**

***Institution**

***Address Line 1**

Address Line 2

***City**

***State**

***Zip Code**

***Email**

***Phone**

Phone Ext

Fax

***Title**

Provide the requested information

Click 'Submit' when you are ready

Create Account

 Account was successfully created. Your password will be emailed to you shortly.

First Name	John
Last Name	Doe
Institution	Medical College Of Georgia
Address Line 1	12345 Some Street
Address Line 2	
City	Somewhere
State	GA
Zip Code	30912
Email	myname@somewhere.edu
Phone	(706) 721-1234
Phone Ext	
Fax	
Title	Professor

MMPC Account Information Request

From: jhigdon@mcg.edu
 Sent: Mon 5/05/08 10:32 AM
 To: myname@somewhere.edu

Welcome to the MMPC,

This message was automatically generated.
 The information contained in this email is private and should not be shared with others.

You have been added as a user to the MMPC Client Web Portal.
 The following information is required for you to log onto the system.
 You will be required to change your password during your first login.

If there are any problems or concerns, please email the MMPC Coordinator:
 Joann Higdon at jhigdon@mcg.edu

Your login information is given below:
 Username = myname@somewhere.edu ← **MMPC Username**
 Password = 84GnpP6G ← **Temporary Password**

You can log onto the site at www.mmpc.org and proceed to the client portal.

Your browser will notify you that a browser certificate is required.
 Install the certificate and proceed to log into the system.

To submit an application for services, please visit
www.mmpc.org/shared/orderTest.aspx

Sincerely,
 MMPC Coordinator

- ❖ Go to your email software and open the email you received from the MMPC web portal. Highlight the password and copy it to your clipboard. Open a browser and go to the MMPC website, type your email address and paste the password you received into the password textbox. The first time you log onto the MMPC web portal, you will be asked to change your password to something you will be able to remember. **NOTE:** If you forget your password, you can always get it by entering your username (email address) and clicking the 'click here' link under the 'Forgot your Password?' text at the login page.

The screenshot shows the MMPC website home page. At the top left is the MMPC logo and the text "National Mouse Metabolic Phenotyping Centers". A navigation bar contains links for Home, Contact, About MMPC, Tests, Data Search, Data Analysis, and Clients. A "Log In to MMPC" pop-up window is open on the right, containing fields for "User Name" (with "myname@somewhere.edu" entered) and "Password" (with "*****" entered). There is a checkbox for "Please save my user name." and a "GO" button. Red arrows point from a text box "Enter your email address and temporary password" to the User Name and Password fields in the pop-up.

The screenshot shows the "New User Login" page. It contains a message: "Our records show you have not logged into the MMPC Member Portal before. In order to continue, you will need to change your password." Below this is a note: "To confirm your password, please enter it twice in the fields provided. NOTE: Passwords are CASE SENSITIVE." There is a form with three rows: "User ID" (with "myname@somewhere.edu" entered), "New Password" (with an empty field), and "Confirm Password" (with an empty field). Red arrows point from a text box "Type your new password twice to confirm and click" to the New Password and Confirm Password fields. There are "Continue" and "Cancel" buttons at the bottom left, and a "Back to Top" link at the bottom right.

The screenshot shows the "Client Login" page. It has two main sections: "Not an MMPC Client?" and "Already registered?". The "Not an MMPC Client?" section has a sub-section "Register for an account" with a list of bullet points and a link "Create your profile here.". The "Already registered?" section has fields for "User Name" (with "myname@somewhere.edu" entered) and "Password" (with an empty field). Below the password field is a note: "Note: Passwords are case-sensitive." and a checkbox for "Please save my user name on this machine.". There is a link "Forgot your password?" with the text "Enter your user name and click here." below it. A red arrow points from a text box "If you forget your password, click this link." to the "click here." link. There are "Login" and "Cancel" buttons at the bottom left, and a "Back to Top" link at the bottom right.

How do I submit an application for one of the MMPC Funding Programs?

Once you have an account with the MMPC, you can submit an application for one or more of the available MMPC Funding Programs. The MICROMouse program accepts applications throughout the year but only reviews them quarterly. The Pilot & Feasibility Program only accepts applications once a year with the deadline being June 1st of each year. Please visit the MMPC web portal for more details regarding the details of the application and eligibility criteria for each of the funding programs (<http://www.mmpc.org/shared/fundingPrograms.aspx>). **PLEASE NOTE:** The MICROMouse program requires pre-approval before a submission can be accepted. This is accomplished by sending a brief (2-3 sentence) letter of intent to the MMPC CBU at least two weeks prior to the submission.

The basic steps involved in submitting an application for one of the MMPC Funding Programs are:

- 1) Log onto the MMPC web portal
- 2) Go to the MMPC Funding Program page and select the Program you want to apply to.
- 3) Click on the ‘Submit a New Funding Program Application’ link
- 4) Fill out the requested information and submit the application PDF document.

As an example, we will illustrate each of these steps by submitting an application for the new client created above, John Doe. Dr. Doe will be submitting an application for the 2008 Pilot & Feasibility Program. This program is reviewed once a year and does not require pre-approval before submission.

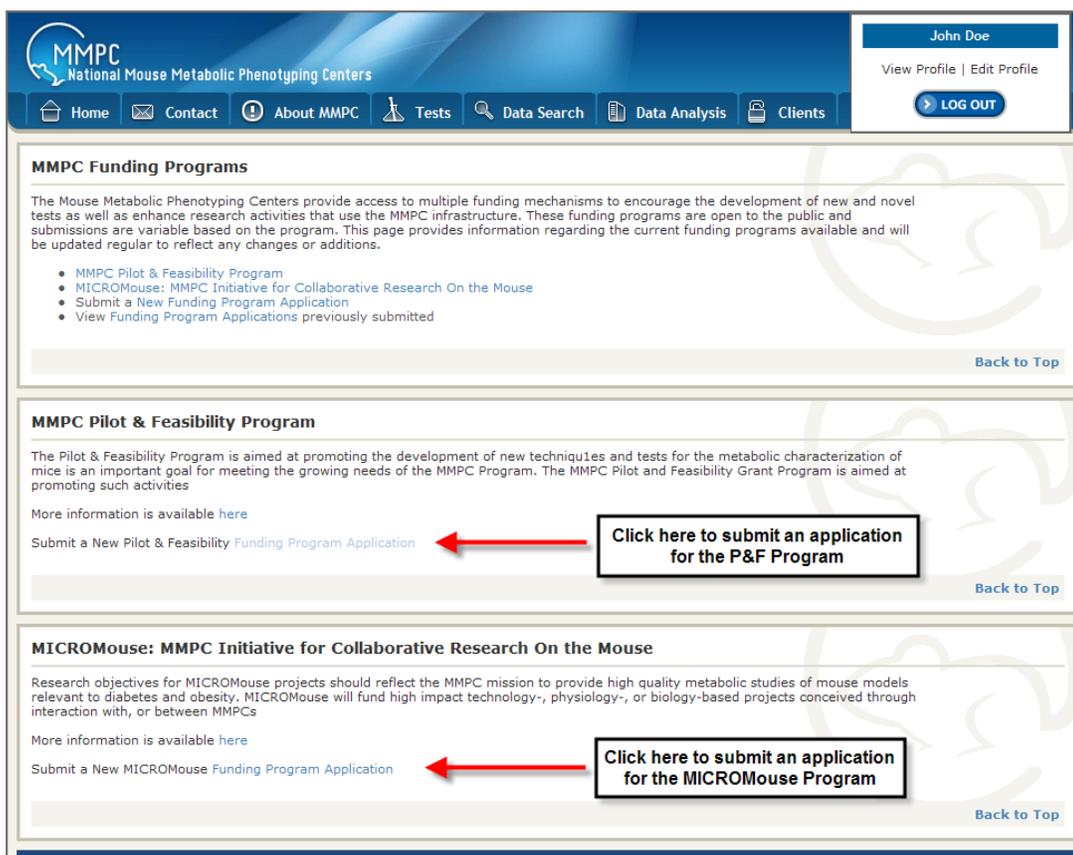
Step 1) As outlined above, the first step is to log onto the MMPC Web Portal. The figure to the right illustrates Dr. Doe logging onto the portal. Once Dr. Doe is authenticated, he/she will be taken to the Client home page. This page provides easy access to many of the common activities clients will perform on the website. By default a list of all your orders and *submitted funding program applications* will be presented as well as many of the links commonly used by clients. Since this is Dr. Doe’s first submission, there will not be any funding program applications listed.

Go to <http://www.mmpc.org> and log onto the web portal

Client Home Page

Step 2) The next step will be for Dr. Doe to go to the Funding Program page of interest and select the Program link for submitting an application. As illustrated above, the client home page provides direct links to the MMPC Funding Program page. In addition, this page can be reached at any time by selecting 'About MMPC' in the drop down menu in the page header and clicking Funding Programs. Click on the 'Funding Program' link to proceed.

Step 3) Once you arrive at the MMPC Funding Program page there will be links available for submitting new applications for each of the funding programs. As illustrated below, we will click on the link for the Pilot & Feasibility Program applications.



Step 4) Clicking the new application link for a specific program will take you to the online form that will need to be filled out to complete your application submission. The application submission page has a list of instructions and submissions are done in four steps with each step supplying specific information about the application. Each step is a specific TAB in the form. To complete each step, click on each TAB. The order of the tabs does not matter, but all required information (*) in each tab must be completed before clicking the SUBMIT button.

TAB 1: Applicant The first tab of the submission form provides the contact information for the investigator applying for funding. This information is taken directly from the client’s profile information stored in the MMPC database. Please review this information and make sure it is correct. If this information isn’t correct, you will need to update your profile before proceeding. This ensures we have the most up to date and accurate contact information.

Submission Instructions

Step 1: Please review your profile information displayed in the 'Applicant' tab. Click [here](#) to update your profile.
 Step 2: Proceed to the 'Finance' tab and fill out as much information as possible regarding the Institution Financial Officer (IFO) and IACUC.
 Step 3: Under the 'Budget' tab enter the Salary, Supply, Equipment, and Travel/Other Costs (direct costs) and indirect costs. Please ensure that the total costs proposed are less than or equal to the Funding Program maximum total costs.
 Step 4: Click the 'Application' tab to enter your Funding Program Application Project Title, Abstract, and upload your documentation (pdf). Finally, click the submit button.

Fields with an asterisk (*) are required.

Step 1: Applicant | Step 2: Finance | Step 3: Budget | Step 4: Application

*First Name: John
 *Last Name: Doe
 *Position Title: Professor
 *Mailing Address Line 1: 12345 Some Street
 Mailing Address Line 2:
 *City: Somewhere
 *State: GA
 *Zip Code: 30912
 *E-Mail Address: myname@somewhere.edu
 *Telephone: (706) 721-1234
 Fax:
 Submit | Cancel

Back to Top

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TAB 2: Finance The second tab of the submission form provides the information regarding the institutional finance officer, animal assurance (IACUC) and Institutional Entity ID information. All of this information is on the face page of the PHS398 application form and should be easily available for input. This information is necessary since awardees will be issued subcontracts from the Medical College of Georgia and this information is necessary to process and execute the subcontract.

The Finance tab provides much of the information that can be found on the face page of the NIH PHS398 form.

Step 1: Applicant | Step 2: Finance | Step 3: Budget | Step 4: Application

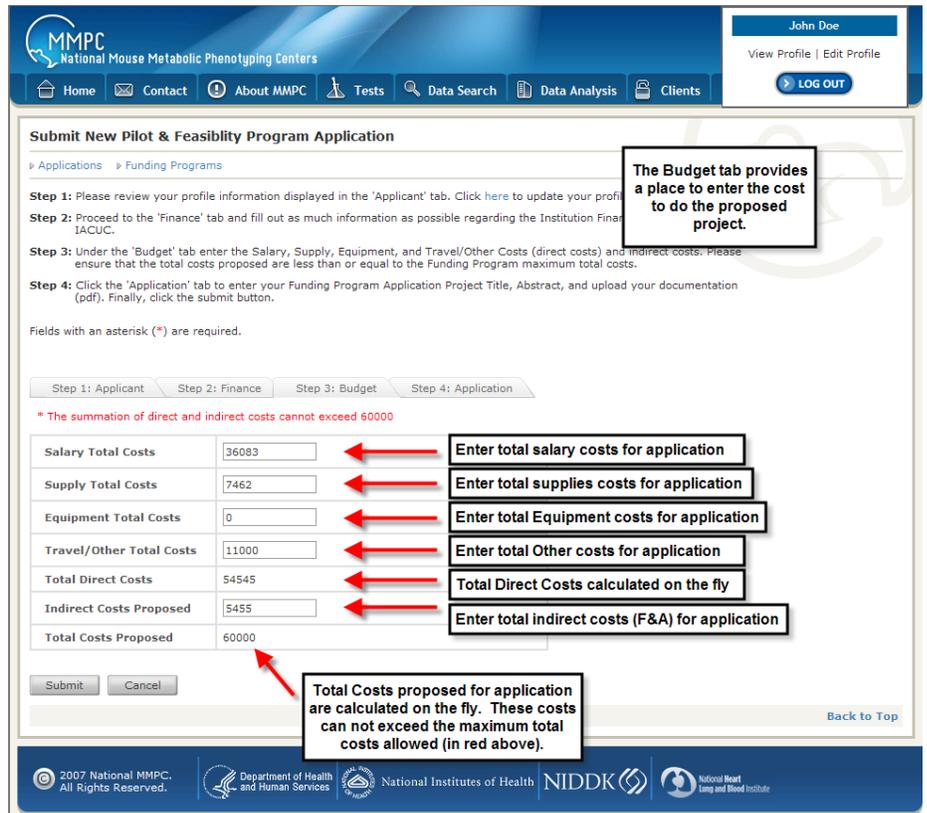
IFO = Institution Financial Officer

IFO First Name:
 IFO Last Name:
 IFO Telephone:
 IFO E-Mail Address:
 Type of Organization: [None Selected]
 IACUC No.: If pending, please type pending:
 IACUC Approval Date: Click the calendar image to select a date if pending, leave blank:
 IACUC Institution: Medical College Of Georgia
 Entity ID No.:
 IACUC Address Line 1: 12345 Some Street
 IACUC Address Line 2:
 IACUC City: Somewhere
 IACUC State: Georgia
 IACUC Zip Code: 30912
 Submit | Cancel

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TAB 3: Budget The third tab provides a place to enter the costs associated with doing the proposed project. Each funding program has a maximum allowable TOTAL COST (indirects + directs). This amount is highlighted in red and is dynamically presented based on the funding program. Enter the whole dollar value (no cents) for each of the budget categories. Please note that the direct and total costs are dynamically calculated as you enter values.



Submit New Pilot & Feasibility Program Application

Applications > Funding Programs

Step 1: Please review your profile information displayed in the 'Applicant' tab. Click [here](#) to update your profile.

Step 2: Proceed to the 'Finance' tab and fill out as much information as possible regarding the Institution Financials (IACUC).

Step 3: Under the 'Budget' tab enter the Salary, Supply, Equipment, and Travel/Other Costs (direct costs) and Indirect costs. Please ensure that the total costs proposed are less than or equal to the Funding Program maximum total costs.

Step 4: Click the 'Application' tab to enter your Funding Program Application Project Title, Abstract, and upload your documentation (pdf). Finally, click the submit button.

Fields with an asterisk (*) are required.

Step 1: Applicant | Step 2: Finance | **Step 3: Budget** | Step 4: Application

* The summation of direct and indirect costs cannot exceed 60000

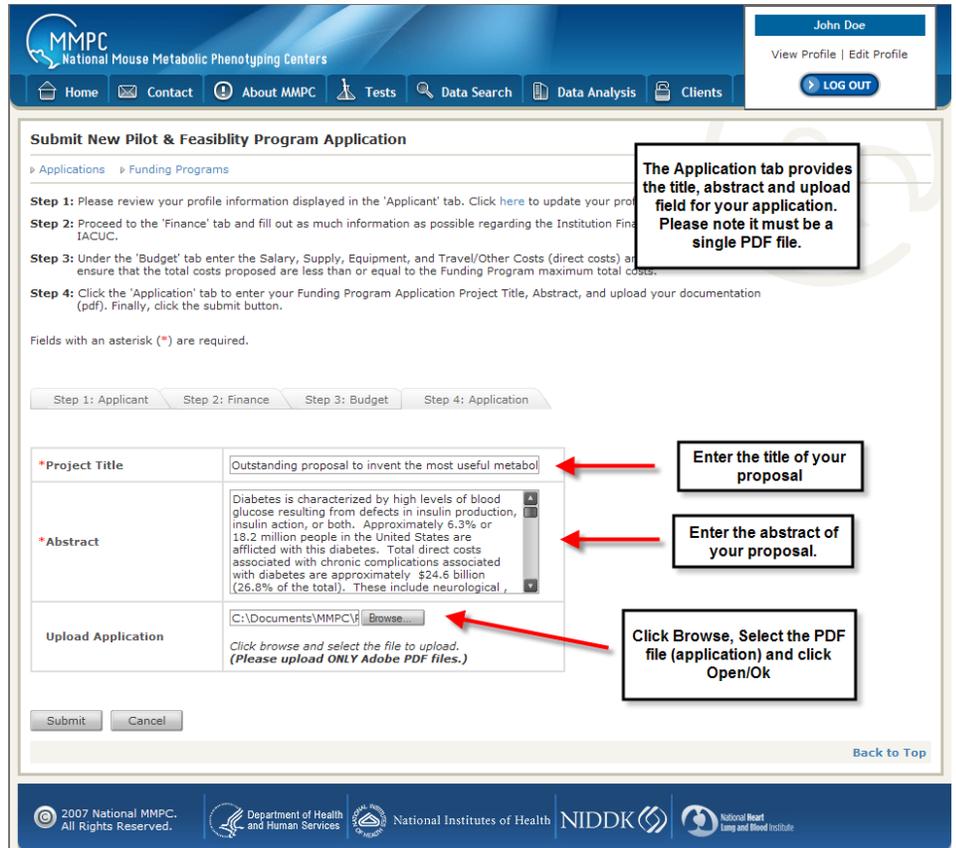
Salary Total Costs	36083	←	Enter total salary costs for application
Supply Total Costs	7462	←	Enter total supplies costs for application
Equipment Total Costs	0	←	Enter total Equipment costs for application
Travel/Other Total Costs	11000	←	Enter total Other costs for application
Total Direct Costs	54545	←	Total Direct Costs calculated on the fly
Indirect Costs Proposed	5455	←	Enter total indirect costs (F&A) for application
Total Costs Proposed	60000	←	Total Costs proposed for application are calculated on the fly. These costs can not exceed the maximum total costs allowed (in red above).

Submit Cancel

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TAB 4: Application The fourth and final tab provides a place to enter the title, abstract and upload the actual PDF file that contains the application. Enter the title of your proposal and the abstract in the appropriate fields. Click the browse button, navigate to your PDF file and click open. Once you have completed all four tabs, you are ready to submit the application!



Submit New Pilot & Feasibility Program Application

Applications > Funding Programs

Step 1: Please review your profile information displayed in the 'Applicant' tab. Click [here](#) to update your profile.

Step 2: Proceed to the 'Finance' tab and fill out as much information as possible regarding the Institution Financials (IACUC).

Step 3: Under the 'Budget' tab enter the Salary, Supply, Equipment, and Travel/Other Costs (direct costs) and Indirect costs. Please ensure that the total costs proposed are less than or equal to the Funding Program maximum total costs.

Step 4: Click the 'Application' tab to enter your Funding Program Application Project Title, Abstract, and upload your documentation (pdf). Finally, click the submit button.

Fields with an asterisk (*) are required.

Step 1: Applicant | Step 2: Finance | Step 3: Budget | **Step 4: Application**

*Project Title: Outstanding proposal to invent the most useful metabol...

*Abstract: Diabetes is characterized by high levels of blood glucose resulting from defects in insulin production, insulin action, or both. Approximately 5.3% or 18.2 million people in the United States are afflicted with this diabetes. Total direct costs associated with chronic complications associated with diabetes are approximately \$24.6 billion (26.8% of the total). These include neurological ,

Upload Application: C:\Documents\MMPC\ Browse

Click browse and select the file to upload. (Please upload ONLY Adobe PDF files.)

Submit Cancel

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CLICK THE SUBMIT BUTTON TO COMPLETE THE APPLICATION

Once you click the SUBMIT button, it may take a few minutes to upload the document as they can be multiple megabytes. Please be patient. If no errors occur, then you will be sent to your application page that provides an overview of the application as well as its status in the system. You may come back as often as you like to check on the status. Once the review has been complete, you will be able to download the critiques and see the average score. In addition, your client home page will be updated with applications that have been submitted to the system. The figures below illustrate both of these pages (application page and home page). If you have any problems with the submission process you may contact Dr. Richard McIndoe (contact information on page 1).

Application Overview Page
Provides general information and status of an application.

Outstanding proposal to invent the most useful metabolic phenotyping assay.

SUMMARY		DATA SUMMARY	
Project Title	Outstanding proposal to invent the most useful metabolic phenotyping assay.	Type	Count
Funding Program Group	Pilot & Feasibility [PF2008]	Invoices	0
Applicant's Name	Doe, John	Reports	0
E-Mail Address	myname@somewhere.edu		
Abstract	Diabetes is characterized by high levels of blood glucose resulting from defects in insulin product...[Mouseover for more]		
Uploaded File	Application Research Plan		
Status	Assign Reviewers		
Salary Total Costs	36083		
Supply Total Costs	7462		
Equipment Total Costs	0		
Travel/Other Total Costs	11000		
Direct Costs	54545		
Indirect Costs Proposed	5455		
Total Costs Proposed	60000		
Total Costs Approved			
Start Date			
End Date			
IFO Name	Finance, Joe		
IFO E-Mail Address	joefinance@somewhere.edu		
IACUC No.	pending		
IACUC Institution	Medical College Of Georgia		
Entity ID No.	123413243		
MCG ID			
External ID			
Report Request Date			
DATA SUBMISSION			
Add Report			

Click here to download your application PDF file

Application Status. In this case reviewer have not been assigned.

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National Mouse Metabolic Phenotyping Centers

John Doe
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LOG OUT

Home
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Clients

Client Area



Client Information
View / edit information about yourself.



Meetings / Workshops
Information on past / future meetings, workshops and itineraries.



Applications for Services
Submit a new order.



Logo Download
Download the MMPC logos for use in presentations, websites, and more.



Training / FAQ
View training and Frequently Asked Questions videos.



Funding Program Applications
View Submitted Funding Program Applications.

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Funding Program Applications

Options:  view

Drag a column header and drop it here to group by that column

Project Title	Applicant	Group	Status	Start Date	End Date	Options
Outstanding proposal to invent the most useful metabolic phenotyping assay.	Doe, John	PF2008	Assign Reviewers			

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List of submitted applications appears in the client home page for each client. Click on the proposal title to go to the overview page of that application.

Orders

Select Status: Pending ▼

No orders found.

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