



**DIGITAL
PARADIGMS**



SYSTEM OVERVIEW





DIGITAL PARADIGMS

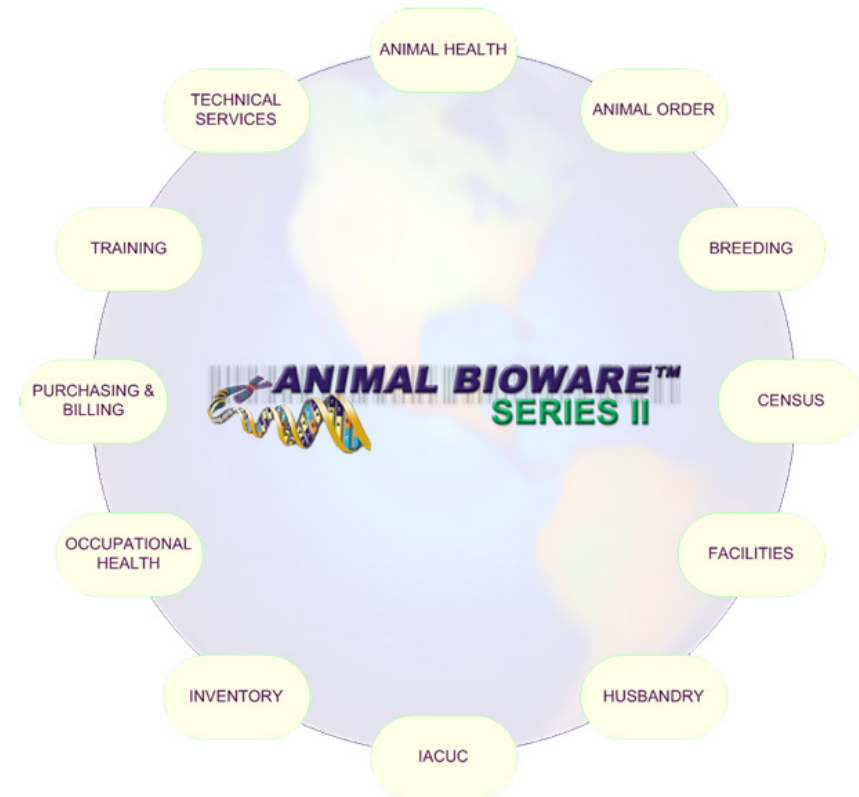
INTRODUCTIONS

- Digital Paradigms
- Our Company
- Our History
- Our Mission



OUR TECHNOLOGY

- Animal Bioware System Overview
 - Comprehensive Modules
 - One Stop Shopping
- Technology Overview
 - .NET
 - SQL Server
 - RFID and Barcode
 - Web/PC/Mobile Platforms
- Modularity
 - Snap-in Modules



COMPETITIVE ADVANTAGE

- Bespoke / Boutique Animal Informatics Software
- Our Core Competency – We do Nothing Else
- Implementation Record 100%
- 14 Year Mature Product
- 14 Year Uptime Record All Clients 99.9999%
- 14 Year 0% Record no Regulatory Issues
- Less Expensive Acquisition Cost
- No Yearly Licensing Fees (for non-subscription products)
- Dedicated Project Management Resource
- No Outside Investors
- Profitability Record 56 Quarters in a Row
- Utilizes the Agile Development Process
- Highly Flexible Data Feed Integration Models
- More than Double the Functionality of Any Competitor
- Software 100% Tailored to Client's Business Process
- Aggressive Code Release Schedule
- Dynamic Licensing
- Animal Industry Leader Software Standards
- Industry Innovation at our Core
- Industry Published Management Team
- Single Code Base / Single Schema Base
- Largest Data Schema in the Industry
- SOA Architecture
- Open Standards / Open Schema
- Sponsorship of New Modules
- Only Provider for RFID Smart Label
- Only Provider of a Cloud Based Solution
- Allows Sponsorship of New Modules
- Wide Acceptance of B2B electronic Data Standards

PUBLICATIONS

- Participant at National AALAS
- Many Joint Customer Poster Sessions
- Industry Visionary
- Regular Contributor to Industry Magazines
- Member of Microsoft Research Panel
- Motorola & Vendor Case Studies

Maximizing Per Capita Revenues Through More Frequent Cage Census



Standardization of Rodent Health Surveillance With Computerized Health Alerts: Animal Welfare and Economic Benefits

STANDARDIZED HEALTH ALERTS

Alert Name	Alert Type	Alert Description
Alert 1	Alert 1	Alert 1 Description
Alert 2	Alert 2	Alert 2 Description
Alert 3	Alert 3	Alert 3 Description
Alert 4	Alert 4	Alert 4 Description
Alert 5	Alert 5	Alert 5 Description
Alert 6	Alert 6	Alert 6 Description
Alert 7	Alert 7	Alert 7 Description
Alert 8	Alert 8	Alert 8 Description
Alert 9	Alert 9	Alert 9 Description
Alert 10	Alert 10	Alert 10 Description



Do-It-Yourself Breeding Colony Software

Tear this article out for your next plane ride or quiet moment with your laptop, and let me show you how to build your own breeding software in a few easy steps.

Michael Moore

Getting Started

For this article, you will need a computer with a Windows operating system. The software is designed to run on Windows XP, Vista, or 7. It is a simple program that you can run on a laptop or desktop computer. It is designed to be used by breeders of various animals, including dogs, cats, and horses. The software is designed to be used by breeders who are looking for a way to manage their breeding colonies. It is designed to be used by breeders who are looking for a way to manage their breeding colonies. It is designed to be used by breeders who are looking for a way to manage their breeding colonies.

RFID, the Promises, the Risks and the Dream

The promises and risks of RFID are many, but it's the dream we're really after.

Michael Moore

Before we jump into this article, the responsible thing to do is to pull back and get an understanding of where we are. What is RFID? What are the risks? What are the costs? What's been successful? Why aren't we better?

RFID 101

So, what is RFID anyway? RFID is basically a wireless ID system. There is a lot more complexity from there, but this is RFID 101, so we'll stay basic.

There's a tag that has a chip with memory and instructions to be a transmitter and responder (transponder). It has an antenna to communicate with. This is what you put on cages or into animals.

RFID TAG / TRANSPONDER

RFID READER

RFID is basically a wireless ID system that features a tag and a reader. The tag has a chip with memory and instructions to be a transmitter and responder (transponder). It has an antenna to communicate with. The reader works in a similar way, using radio frequencies, after powering up the chip, and gets a response back from whatever tag it is in range.

Antennas and Hardware

There are two main types of antennas: UHF and HF. UHF antennas are used for long-range applications, while HF antennas are used for short-range applications. The hardware used for RFID includes readers, tags, and antennas.

Proprietary vs. Standard

There are two main types of RFID: proprietary and standard. Proprietary RFID is used by companies that want to keep their data secure. Standard RFID is used by companies that want to share their data. The standard types of RFID are UHF and HF.

RFID 201

So, you've heard there's more about RFID than this simple phone conversation about your cages? There is, but by no means overlooked. A few things are worth mentioning.

Animal Welfare / Transponder

This is basically battery-powered versus power through induced electricity sent over the airwaves. I haven't found a single use of battery-powered (aka active tag) in our industry. So forget about it.

Proprietary vs. Standard

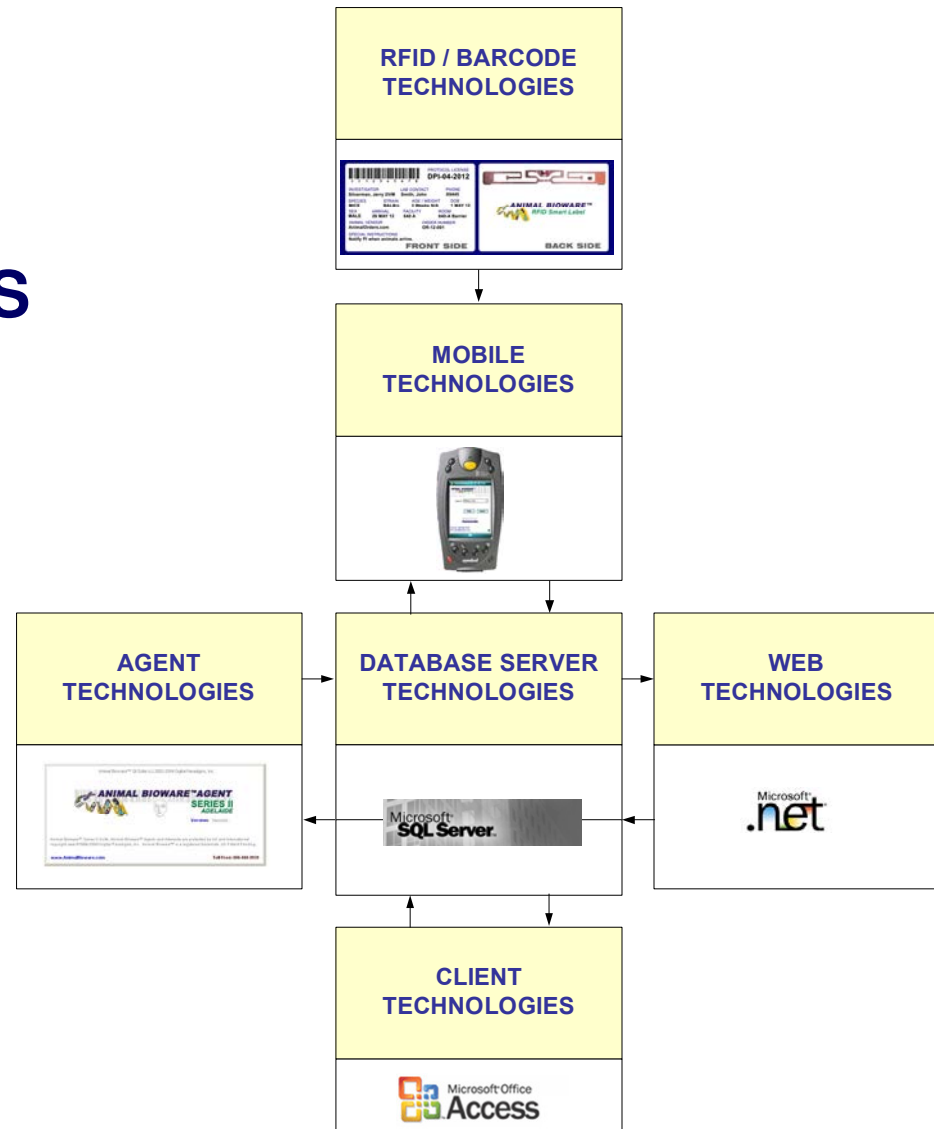
There are basically 4 frequency sets, Low Frequency < 135 KHz, High Frequency 13.56 MHz, Ultra High Frequency 900MHz MHz and Microwave 2.45 GHz. This is just like your car radio, you tune a frequency. The RFID tag and reader must be tuned to the same frequency.

Tag and Standard

There are more antennas and functionalities for tags than I'd care to discuss. Things like ISO 15963-4, IPC, IPC2 / Gen2, T10, EPC C1, EPC Global. This is where RFID gets its bad reputation. Like buying a new cell phone, just pick the latest technology. I like EPC Gen2, I wouldn't get hung up on what was hot in 1996.

BASIC BUILDING BLOCKS

- Barcode Technologies
- Mobile Technologies
- Database Server Technologies
- Web Technologies
- Client Technologies
- Agent Technologies



BARCODE & RFID TECHNOLOGY

Requestor: Lambert, Glenda	Investigator: Imani, Candy
Protocol: 00-143	Species: Mouse
Strain: Arrive	Strain: Mouse
House purchased (CF): 312	Gender: Court
Room: 114 B1 in 6 mouse	Sex: Female
Department:	Substr: Hydrone 1

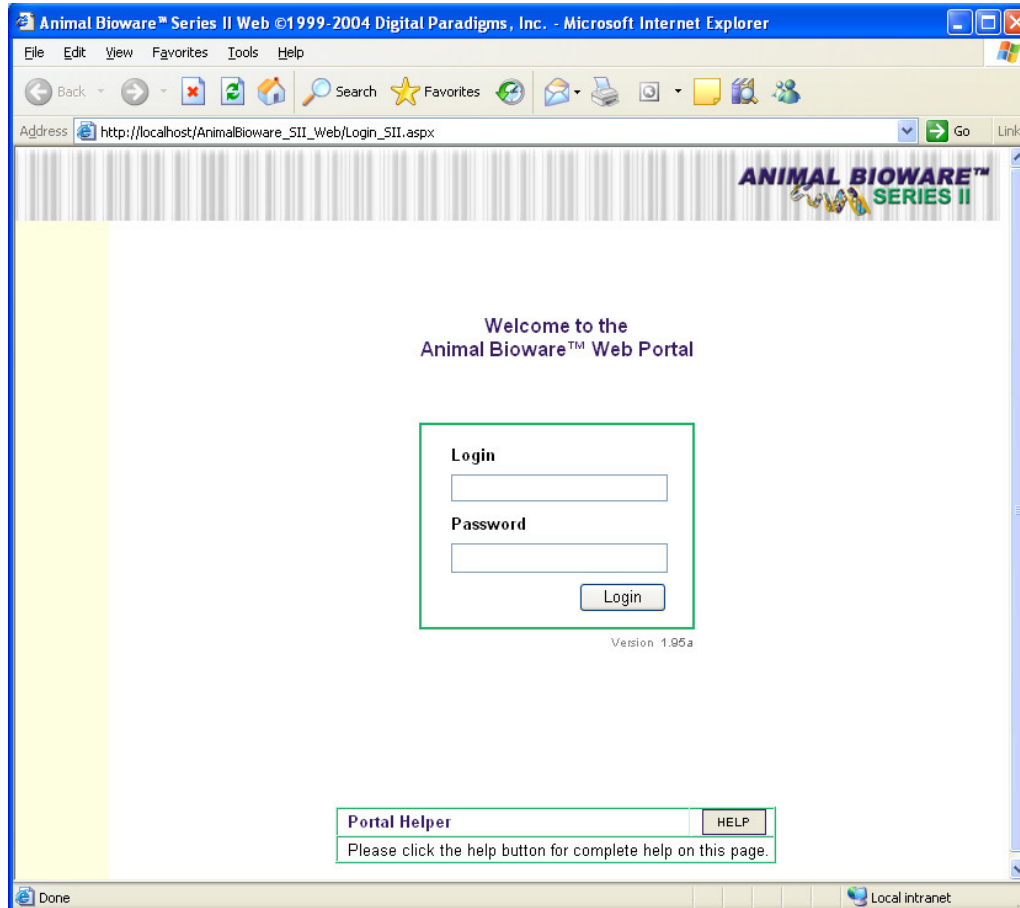
INVESTIGATOR: Silberman, Jerry DVM		LAB CONTACT: Smith, John	PHONE: 88443
SPECIES: MICE	STRAIN: BALB/c	AGE / WEIGHT: 3 Weeks N/A	DOB: 1 MAY 12
SEX: MALE	ARRIVAL: 28 MAY 12	FACILITY: 640 A	ROOM: 640-A Barrier
ANIMAL VENDOR: AnimalOrders.com	ORDER NUMBER: OR-12-001	SPECIAL INSTRUCTIONS: Notify PI when animals arrive.	

FRONT SIDE



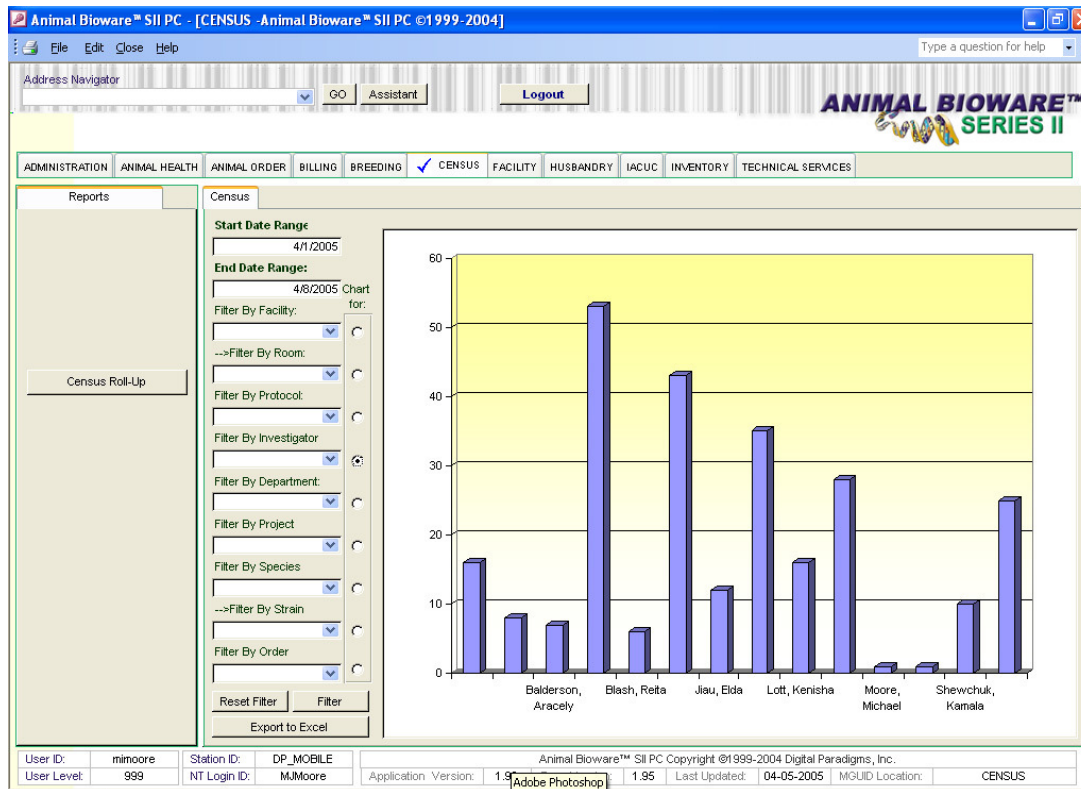
- **BARCODES / RFID**
 - Industry Standards
 - Unique Identifiers
 - Accurate Data
- **PDA Mobile Computing**
 - Highly Mobile
 - Information Right at Cage
 - Scalable Technology
 - Wireless
 - Can Support RFID
 - Can Include Phone / GPS
 - Additional Uses (Emails, Tasks)
- **Synergy**
 - Information & Accuracy
 - Fast & Mobile
 - Intuitive & Simple

WEB TECHNOLOGY



- Low Cost of Ownership
- No Workstation Installs
- Good for Large Populations
- Availability
- Available for Remote Users / VPN users.

PC DESKTOP TECHNOLOGY



- Powerful Technology
- Reliable & Standard
- Reporting Features
- Integrates with other Office Products

CAPTURE HEALTH INFORMATION

- Vet Tech / Care Staff Leveling
 - Initial Case Identification
 - Enhanced Case Information
- Room / Rack Information
- Follow-up Treatment Plan
- Pull-down Capture
- Barcode Capture
- Regulatory Information
 - Animal Health Case Tracking
 - Personnel Information
 - Date Time Information
- PI Notifications
- Email Reminders

The screenshots display the following screens:

- ANIMAL HEALTH:** Main menu with buttons for 'CARE STAFF REPORT', 'VET TECH CASE', and 'SAVE ALL'. Shows 38 Active Cases.
- CASES IN ROOM:** Table of active cases with columns for Case, PI, Cage, and Obser.
- ANIMAL HEALTH CARD:** Detailed view for case ccl2345678, including investigator info, protocol, and species.
- VET TECH CASE:** Observation and body part selection screen.
- ANIMAL HEALTH CASE:** Selection of scan room (23-4 Mouse Rm-S3) and rack (Rm S3 Mouse Rack 1), with cage card ID CC12345678.
- CARE STAFF REPORT:** Observation (Discharge), body part (Eyes), animal ID (0030028.1.2.m), and number of affected cases (1).
- VET TECH CASE (Technical):** Technical observation: 'Abdominal Distention and a lack of appetite.' Vet Tech: 'Abbasi, Lucy'.
- VET TECH CASE (Status):** Strain (B6-Card4 KO), status (New Report), sub-status (Improving), type (Health Case), and animal status (In Experiment).

REVIEW HEALTH INFORMATION

- PC Based Front End
- Centralized Administration
- Information Anywhere
- Near Real-time Reporting
- Historical Reporting
- Outbreak Tracking
- Protocol Pain Category Detail

The image displays three overlapping screenshots of the Animal Health software interface:

- Top Left:** "ANIMAL HEALTH CASE" window showing details for Facility 140-0, Room 8025A. It includes case information such as Case ID (CC1419891), Date Created (3/15/2004), Room Barcode, and Facility (140-0). A comment at the bottom states: "Comments: SPIs locked. No individual change".
- Top Right:** "ANIMAL HEALTH ROLL UP" window showing a summary table of cases. The table has columns for Case Number, Closed Date, Room, Rack, Date Created, Follow Up, and Equip Part. It lists several cases with their respective details.
- Bottom Left:** "ANIMAL HEALTH" window showing a detailed view of a case, including fields for Case Number, Date Created, Room, Rack, and Equip Part. It also includes a "Case Information" section with various status and action options.
- Bottom Right:** A detailed report window showing a list of cases with columns for Case Number, Date Created, Room, Rack, Date Created, Follow Up, and Equip Part. It includes a "Print Report" button and a "Page 1 of 1" indicator.

DRUG REQUEST SYSTEM

The screenshot shows a web browser window with the URL <http://localhost:8080/animalbioware/>. The page title is "Animal Health - Drug Request". The interface includes a navigation menu with items: Animal Health, Animal Services, Billing, Breeding, Card Printing, Committee, IACUC, Order, Training, Administration, and Logout. The main form contains the following fields:

- QTY: 5
- UNITS: Each
- DRUG: Ketamine/Xylazine
- PROTOCOL: 09:77-777
- DFI ACCOUNT: 12100-20
- STORAGE FACILITY: 23-4
- STORAGE ROOM: 23-4 Mouse Rm-63
- DATE NEEDED BY: A calendar for October 2013 is displayed, with the 15th selected.
- NOTES / SPECIAL HANDLING INSTRUCTIONS: We need this before next week, use veterinarian's DEA license.

A "Submit Request" button is located at the bottom right of the form. At the bottom left, there is a user selection dropdown menu with "Admin: Mark" selected and "Def: Drug Suite & Dispense" as an option.

- Barcode Enabled
- PI Email Notification
- Near Real-time Reporting
- Follow-Up Tracking
- Billable Data Information
- Cage / Rack Location Information

CAPTURE OVERCROWDING

The screenshot shows a web application window titled "ANIMAL HEALTH OVERCROWDING MAINTAIN ITEM". The interface includes a navigation menu on the left with buttons for "HOME CASE", "PRINT CASE", "PRINT PROTOCOL", and "EMAIL CASE". The main content area is titled "Overcrowding Case" and "Cage Information". It displays the following data:

- OVERCROWDING CASE ID: 001892
- Cage Number: C000066997
- Room: [Dropdown]
- Rack: Rm 47 Mouse Rack 2
- Protocol: 019-77-777
- Investigator Name: Myrddin, Mark
- Investigator Phone: 617-723-9400
- Investigator Email: mmark@tpiboston.com
- Recorded By: [Dropdown]
- Reason: Overcrowding
- Husbandry Separated: [Dropdown]
- PI Separated: [Dropdown]
- Date Created: 6/15/2009
- Follow Up Date: 6/17/2009
- Case Closed Date: [Text Field]
- Case Closed By: [Dropdown]
- Closed: Yes
- Emailed to PI: No
- Comments: [Text Area]

At the bottom of the window, there is a footer with the following information: "Animal Bioware™ SII PC Copyright ©1999-2012 Digital Paradigms, Inc. Application Version: 2.12 Form Version: 2.12 Last Updated: 06-29-2012 MGUD Location: ANIMAL HEALTH OVERCROWDING MAINTAIN ITEM".

- Barcode Enabled
- PI Email Notification
- Near Real-time Reporting
- Follow-Up Tracking
- Billable Data Information
- Cage / Rack Location Information

ONLINE ORDER WIZARD

Animal Bioware™ Animal Order Home Page

ALL SUBMITTED ORDERS

VIEW	CHANGE/DELETE	ORDER	DATE SUBMIT	PROTOCOL	SPECIES	BED FACILITY	EXPECTED DELIVERY	STATUS
VIEW	CHANGE/DELETE	05-021914	03-19-2005	DP1-77-777	Mouse	88-5	03-29-2005	SUBMITTED

ALL DRAFT ORDERS

EDIT	ORDER	PROTOCOL	SPECIES	BED FACILITY	EXPECTED DELIVERY	STATUS
EDIT	4192005-DRAFT	DP1-77-777		72	05-26-2005	DRAFT

User: Moore, Michael
Department: Drug Safety & Disposition

Portal Helper: Please click the help button for comp... HELP

- Wizard Based
- Drop Down Driven
 - Requested Facility / Room
 - Gender
 - Vendor
- Delivery Dates
- IACUC Balance Verification
- Species / Strain Verification
- Special Handling Instructions

Order Wizard - Number Animals

ORDER NUMBER: 4192005-DRAFT

Number Animals
Please enter the number of animals for this order, and the number of animals per cage. If the available number is 0, then please check that the species, strain, and protocol have been selected in the previous screen. When finished, please verify, and then Click Next.

Enter Number of Animals: 1

Selected Animals Per Cage: 1

Available Balance for Species/Strain: 0

Portal Helper: When finished, please click the Back button, use the menu on the left to navigate.

Order Wizard - Strain

ORDER NUMBER: 4192005-DRAFT

Strain
Please select a Strain from the list of strains approved for the protocol selected. If this list is empty, please make sure that you have selected a protocol on the previous screen. After selecting, please verify, and then Click Next.

Select Strain: 129C

Portal Helper: When finished, please click the Back button, use the menu on the left to navigate.

ONLINE ORDER CHECK / RULE AUDITOR

- Check Business Rules
- Check Mistakes
- Allow Draft Saving
- Check Totals
- Check Blackout & Delivery Dates

File Edit View Favorites Tools Help

Address http://localhost/AnimalBioware_SII_Web/Order/Wizards/OrderWizard_100_SII.aspx

Order Wizard - Submit Order

Animal Health Animal Services Breeding Order Census IACUC Committee Administrators Logout

ORDER NUMBER 4/18/2005-DRAFT

General Information

Animal Information

Fulfillment Information

Submit Order

Please review the issues box below for any issues or errors associated with this draft order. You will not be able to submit, until the issues box is empty.

The Order doesn't have a valid Number of Animals Per Cage.
The Order doesn't have a valid Quantity.
The Order doesn't have a valid Room.
The Order doesn't have a valid Species.
The Order doesn't have a valid Vendor.

<< Previous EMAIL ME DELETE DRAFT SUBMIT

User Moore, Michael

Department Drug Safety & Disposition

Portal Helper

When finished, please click Submit; use the menu on the left to navigate.

Done Local Intranet

PC MANAGEMENT & ORDER DESK

The screenshot displays the 'ANIMAL ORDER' module within the Animal Bioware SII PC software. The interface features a menu bar at the top with options like 'File', 'Edit', 'Close', and 'Help'. Below the menu bar is an 'Address Navigator' and a 'Log out' button. The main navigation pane on the left includes sections for 'After Delivery Reports' and 'Before Delivery Reports', with a sub-section for 'Orders' containing buttons for 'Add New', 'Copy Order', 'Delete Selected', and 'Maintain Order'. The central area shows a table of orders with the following columns: Order, Protocol, Requestor, Order Date, Requested Date, Status, and Species. The table contains 25 rows of data. To the left of the table are various filter options: 'Filter By Order Number', 'Filter By Protocol', 'Filter By Requestor', 'Filter By Status', 'Filter By Ordering Staff', and 'Filter by Species'. There are also buttons for 'Reset Filter', 'Filter', 'Print All Filtered', 'Advanced Filtering', and 'Export to Excel'. The status bar at the bottom provides user information (User ID: mimoore, Station ID: DP_MOBILE, User Level: 999, NT Login ID: M.Moore) and application details (Application Version: 1.93, Form Version: 1.95, Last Updated: 04-05-2005, MGLUID Location: ANIMAL ORDER).

Order	Protocol	Requestor	Order Date	Requested Date	Status	Species
05-021646	DPI-04-019	Foraker, Danny	4/14/2005 2:04:	4/26/2005	SUBMITTED	Mouse
05-021644	DPI-05-001	Hindsman, Major	4/13/2005 4:57:	4/26/2005	CONFIRMED	Mouse
05-021635	DPI-02-028	Lewi, Viola	4/13/2005 11:40:	4/21/2005	CONFIRMED	Rat
05-021633	DPI-04-010	Lewi, Viola	4/13/2005 11:38:	4/21/2005	CONFIRMED	Guinea Pig
05-021631	DPI-04-010	Lewi, Viola	4/13/2005 11:38:	4/21/2005	CONFIRMED	Rat
05-021629	DPI-04-010	Lewi, Viola	4/13/2005 11:32:	4/21/2005	CONFIRMED	Rat
05-021627	DPI-04-019	Alamia, Christina	4/13/2005 11:13:	4/26/2005	PLACED	Mouse
05-021623	DPI-02-052	Turnow, Catheryn	4/13/2005 10:58:	4/26/2005	CONFIRMED	Mouse
05-021624	DPI-03-031	Alamia, Christina	4/13/2005 10:55:	4/21/2005	CONFIRMED	Mouse
05-021621	DPI-04-025	Crispell, Ailsa	4/12/2005 4:28:	4/19/2005	CONFIRMED	Mouse
05-21620	DPI-04-006	Ziemski, Chi	4/12/2005 3:43:		RECEIVED	Mouse
05-021618	DPI-02-066	Foraker, Danny	4/12/2005 3:25:	4/19/2005	CONFIRMED	Mouse
05-21616	DPI-04-006	Ziemski, Chi	4/12/2005 3:07:		RECEIVED	Mouse
05-21615	DPI-04-006	Ziemski, Chi	4/12/2005 2:04:		RECEIVED	Mouse
05-21614	DPI-04-006	Ziemski, Chi	4/12/2005 1:47:		RECEIVED	Mouse
05-021611	DPI-02-066	Vigilo, Shelby	4/12/2005 1:45:	4/19/2005	PLACED	Mouse
05-21613	DPI-04-006	Ziemski, Chi	4/12/2005 1:32:		RECEIVED	Mouse
05-21610	DPI-04-006	Ziemski, Chi	4/12/2005 12:38:		RECEIVED	Mouse
05-021607	DPI-02-005	Steakley, Jeremy	4/12/2005 10:44:	4/21/2005	CONFIRMED	Mouse
05-021603	DPI-05-002	Vredeveld, Robbie	4/12/2005 10:11:	4/19/2005	CONFIRMED	Mouse
05-021604	DPI-05-005	Balderson, Aracely	4/12/2005 10:08:	4/20/2005	CONFIRMED	Rat
05-021600	DPI-05-001	Larzazs, Edmund	4/12/2005 9:15:	4/19/2005	CONFIRMED	Rat
05-021599	DPI-01-71	Clavijo, Augustine	4/12/2005 9:13:	4/19/2005	CONFIRMED	Mouse
05-021597	DPI-02-063	Mizuno, Carol	4/11/2005 11:42:	4/19/2005	PLACED	Mouse
05-021595	DPI-02-015	Daggs, Daniel	4/11/2005 10:33:	4/19/2005	CONFIRMED	Mouse
05-021593	DPI-02-015	Daggs, Daniel	4/11/2005 10:27:	4/19/2005	PLACED	Mouse
05-021590	DPI-03-038	Mizuno, Carol	4/8/2005 3:20:01	4/26/2005	PLACED	Mouse
05-021584	DPI-03-038	Mizuno, Carol	4/8/2005 3:12:01	4/19/2005	CONFIRMED	Mouse
05-021582	DPI-03-038	Mizuno, Carol	4/8/2005 3:12:01	4/26/2005	PLACED	Mouse

- Filtering Capabilities
- Approvals / Denials
- Delivery Reports
- Vendor Health Information
- Confirmation Information
- Pricing Information



ANIMAL ORDER

ANIMAL ORDERING - Reports

ANIMAL BIOWARE™ SERIES II

ANIMAL COSTING REPORT

Printed: 4/17/2005 Date Range:

Vendor
 Charles River Laboratories
 Department
 Cancer Pharmacology

Species	Order #	Received	Protocol	PI:	QTY	Price Per	Animal Cost	Shipping	Surgery	Crate Cost	Sub-Total
Mice	05-021377	4/5/2005	DP1-04-017		5317	\$50.60	\$2,228.40	\$123.00	\$0.00	\$99.85	\$2,409.25
Mice	05-021495	4/12/2005	DP1-04-017		5340	\$29.00	\$2,000.00	\$35.00	\$0.00	\$99.75	\$3,034.75
Mice	05-021493	4/12/2005	DP1-04-017		4631	\$29.00	\$2,000.00	\$35.00	\$0.00	\$99.75	\$3,034.75
Mice	05-021413	4/5/2005	DP1-04-025		8256	\$29.00	\$1,740.00	\$21.00	\$0.00	\$99.85	\$1,820.85
Mice	05-021516	4/14/2005	DP1-04-025		8261	\$29.00	\$4,554.00	\$205.00	\$0.00	\$99.75	\$4,858.75
Mice	05-021497	4/12/2005	DP1-04-017		5317	\$29.00	\$2,000.00	\$35.00	\$0.00	\$99.75	\$3,034.75
Mice	05-021379	4/5/2005	DP1-04-025		8261	\$50.60	\$202.40	\$41.00	\$0.00	\$19.95	\$263.35
Mice	05-021402	4/5/2005	DP1-04-025		8834	\$29.00	\$3,480.00	\$42.00	\$0.00	\$119.70	\$3,641.70
Mice	05-021550	4/12/2005	DP1-04-025		8256	\$29.00	\$3,843.20	\$164.00	\$0.00	\$79.80	\$3,887.00
Mice	05-021371	4/12/2005	DP1-04-025		5204	\$29.00	\$2,745.00	\$164.00	\$0.00	\$79.80	\$2,991.80
Department Totals							\$27,294.00	\$27,294.00	\$0.00	\$17.95	\$28,876.95

Department
 Comparative Medicine

Species	Order #	Received	Protocol	PI:	QTY	Price Per	Animal Cost	Shipping	Surgery	Crate Cost	Sub-Total
Mice	05-21610	4/12/2005	DP1-04-006		5179	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Rats	05-021429	4/7/2005	DP1-02-026		4750	\$18	\$21.65				
Mice	05-21620	4/12/2005	DP1-04-006		5179	\$11	\$0.00				
Mice	05-21613	4/12/2005	DP1-04-006		5179	\$1	\$0.00				
Mice	05-21614	4/12/2005	DP1-04-006		5179	\$1	\$0.00				
Mice	05-21615	4/12/2005	DP1-04-006		5179	\$8	\$0.00				
Mice	05-21616	4/12/2005	DP1-04-006		5179	\$74	\$0.00				
Rats	05-021431	4/7/2005	DP1-02-026		4750	\$18	\$21.65				

Sunday, April 17, 2005

- Arrival Reports
- Delivery Report
- Cost Reports
- Back-Order Reports
- Standing Order Reports
- Predictor Reports – Facility Utilization

ANIMAL BIOWARE™ SERIES II

Animal Arrival Report

Report: 4/17/2005
 Date Range: 4/12/2005 - 4/18/2005

Requested Facility: 72

Order Number	Requested Facility	Requested Room	Requested Date	Qty
45-021087	72	05 on 3 mouse	4/18/2005	24
Species:	Strain:	Investigator:	Requestor:	Protocol:
Mice	COBOLA	Edin, Marika	Unger, Lisa	DP1-04-025
Comments:	Strain:	Vendor:	Charles River Laboratories	
Other handling instructions: CONFIRMED				
Date of 1st birth entered: Younger ones would be at 8 to 11 days since are not available.				
Order Number	Requested Facility	Requested Room	Requested Date	Qty
45-021096	72	05 on 3 mouse	4/18/2005	50
Species:	Strain:	Investigator:	Requestor:	Protocol:
Mice	B6:129	Jax, Eds	Baby, Lisa	DP1-04-006
Comments:	Strain:	Vendor:	Charles River Laboratories	
Other handling instructions: CONFIRMED				
Please place mice in bin # 1. Thank you.				
Order Number	Requested Facility	Requested Room	Requested Date	Qty
45-021091	72	05 on 3 mouse	4/18/2005	19
Species:	Strain:	Investigator:	Requestor:	Protocol:
Mice	COBOL	Lisa, Eds	Lisa, Eds	DP1-04-006
Comments:	Strain:	Vendor:	Charles River Laboratories	
Other handling instructions: PLACED				
These mice are from the COBOL colony.				
ID #:	Males: 406, 440, 441, 445, 447, 448, 449, 450, 451, 455, 456, 457, 458			
Females:	459, 458, 459, 461			
Order Number	Requested Facility	Requested Room	Requested Date	Qty
45-021092	72	05 on 3 mouse	4/18/2005	4
Species:	Strain:	Investigator:	Requestor:	Protocol:
Mice	B6:129	Lisa, Eds	Lisa, Eds	DP1-04-006
Comments:	Strain:	Vendor:	Charles River Laboratories	
Other handling instructions: CONFIRMED				

Sunday, April 17, 2005 Page 1 of 8

ANIMAL BIOWARE™ SERIES II

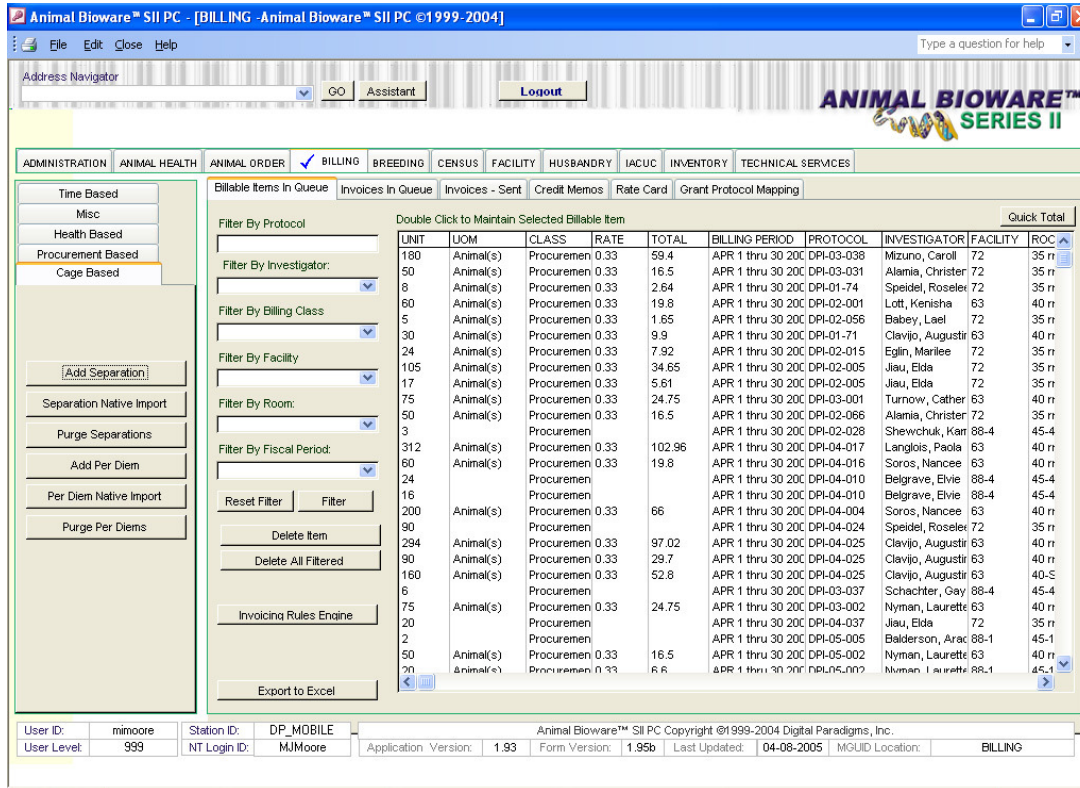
Orders By Month

Report: 4/17/2005
 Date Range: 4/17/2005

Protocol Name:	Order Number:	Received Date:	Received:
DP1-01-74			
Species:	Order Number:	Received Date:	Received:
Mice	05-021581	4/12/2005 11:00 AM	8
Protocol Name:	Order Number:	Received Date:	Received:
DP1-02-001			
Species:	Order Number:	Received Date:	Received:
Rats	05-021428	4/14/2005 11:00 AM	18
Protocol Name:	Order Number:	Received Date:	Received:
DP1-04-006			
Species:	Order Number:	Received Date:	Received:
Mice	05-021554	4/14/2005 11:00 AM	20
Mice	05-021586	4/12/2005 11:00 AM	12
Mice	05-021496	5/20/2005 10:00 PM	20
Mice	05-021411	4/12/2005 11:00 AM	40
Mice	05-021409	4/12/2005 11:00 AM	40
Mice	05-021407	4/12/2005 11:00 AM	24
Mice	05-021405	4/12/2005 11:00 AM	48
Mice	05-021402	5/18/2005 10:20 AM	50
Mice	05-021400	5/20/2005 10:00 AM	20
Mice	05-021370	5/24/2005 11:00 AM	48
Mice	05-021367	4/14/2005 11:00 AM	20
Mice	05-021364	5/22/2005 11:00 AM	20
Mice	05-021361	5/22/2005 11:00 AM	20
Mice	05-021354	5/26/2005 11:00 AM	20
Mice	05-021350	5/26/2005 11:00 AM	15
Mice	05-021349	4/12/2005 11:00 AM	16
Mice	05-021345	4/14/2005 1:00 PM	12
Mice	05-021343	5/26/2005 11:00 AM	20
Protocol Name:	Order Number:	Received Date:	Received:
DP1-02-016			
Species:	Order Number:	Received Date:	Received:
Mice	05-021204	5/22/2005 11:00 AM	48
Mice	05-021204	5/22/2005 11:00 AM	60
Mice	05-021203	5/26/2005 11:00 AM	60

Sunday, April 17, 2005 Page 1 of 7

SINGLE BILLING NEXUS



The screenshot shows the 'BILLING' module of the Animal Bioware SII PC software. The interface includes a menu bar (File, Edit, Close, Help), an address navigator, and a main menu with tabs for ADMINISTRATION, ANIMAL HEALTH, ANIMAL ORDER, BILLING (selected), BREEDING, CENSUS, FACILITY, HUSBANDRY, IACUC, INVENTORY, and TECHNICAL SERVICES. The 'BILLING' tab is active, showing a 'Billable Items In Queue' section with various filter options (Investigator, Billing Class, Facility, Room, Fiscal Period) and a table of billable items. The table columns are UNIT, UOM, CLASS, RATE, TOTAL, BILLING PERIOD, PROTOCOL, INVESTIGATOR, FACILITY, and ROC. Below the table are buttons for 'Delete Item', 'Delete All Filtered', 'Invoicing Rules Engine', and 'Export to Excel'. At the bottom, there is a user information section with fields for User ID, Station ID, NT Login ID, Application Version, Form Version, Last Updated, and MQUID Location.

UNIT	UOM	CLASS	RATE	TOTAL	BILLING PERIOD	PROTOCOL	INVESTIGATOR	FACILITY	ROC
180	Animal(s)	Procurement	0.33	59.4	APR 1 thru 30 200	DPI-03-038	Mizuno, Carol	72	35 n
50	Animal(s)	Procurement	0.33	16.5	APR 1 thru 30 200	DPI-03-031	Alamia, Christer	72	35 n
8	Animal(s)	Procurement	0.33	2.64	APR 1 thru 30 200	DPI-01-74	Speidel, Roseleer	72	35 n
60	Animal(s)	Procurement	0.33	19.8	APR 1 thru 30 200	DPI-02-001	Lott, Kenisha	63	40 n
5	Animal(s)	Procurement	0.33	1.65	APR 1 thru 30 200	DPI-02-056	Babey, Lael	72	35 n
30	Animal(s)	Procurement	0.33	9.9	APR 1 thru 30 200	DPI-01-71	Clavijo, Augustir	63	40 n
24	Animal(s)	Procurement	0.33	7.92	APR 1 thru 30 200	DPI-02-015	Eglin, Marilee	72	35 n
105	Animal(s)	Procurement	0.33	34.65	APR 1 thru 30 200	DPI-02-005	Jiau, Elda	72	35 n
17	Animal(s)	Procurement	0.33	5.61	APR 1 thru 30 200	DPI-02-005	Jiau, Elda	72	35 n
75	Animal(s)	Procurement	0.33	24.75	APR 1 thru 30 200	DPI-03-001	Turnow, Cathar	63	40 n
50	Animal(s)	Procurement	0.33	16.5	APR 1 thru 30 200	DPI-02-066	Alamia, Christer	72	35 n
3	Procurement				APR 1 thru 30 200	DPI-02-028	Shewchuk, Kart	88-4	45-4
312	Animal(s)	Procurement	0.33	102.96	APR 1 thru 30 200	DPI-04-017	Langlois, Paola	63	40 n
60	Animal(s)	Procurement	0.33	19.8	APR 1 thru 30 200	DPI-04-016	Soros, Nancee	63	40 n
24	Procurement				APR 1 thru 30 200	DPI-04-010	Belgrave, Elvie	88-4	45-4
16	Procurement				APR 1 thru 30 200	DPI-04-010	Belgrave, Elvie	88-4	45-4
200	Animal(s)	Procurement	0.33	66	APR 1 thru 30 200	DPI-04-004	Soros, Nancee	63	40 n
90	Procurement				APR 1 thru 30 200	DPI-04-024	Speidel, Roseleer	72	35 n
294	Animal(s)	Procurement	0.33	97.02	APR 1 thru 30 200	DPI-04-025	Clavijo, Augustir	63	40 n
90	Animal(s)	Procurement	0.33	29.7	APR 1 thru 30 200	DPI-04-025	Clavijo, Augustir	63	40 n
160	Animal(s)	Procurement	0.33	52.8	APR 1 thru 30 200	DPI-04-025	Clavijo, Augustir	63	40-5
6	Procurement				APR 1 thru 30 200	DPI-03-037	Schachter, Gay	88-4	45-4
75	Animal(s)	Procurement	0.33	24.75	APR 1 thru 30 200	DPI-03-002	Nyman, Laurette	63	40 n
20	Procurement				APR 1 thru 30 200	DPI-04-037	Jiau, Elda	72	35 n
2	Procurement				APR 1 thru 30 200	DPI-05-005	Balderson, Arac	88-1	45-1
50	Animal(s)	Procurement	0.33	16.5	APR 1 thru 30 200	DPI-05-002	Nyman, Laurette	63	40 n
70	Animal(s)	Procurement	0.33	6.6	APR 1 thru 30 200	DPI-05-002	Nyman, Laurette	88-1	45-1

- Roll up all billing sources
- Connects Natively To:
 - Animal Order – Procurement
 - Census – Per Diem
 - Animal Order – Exports
 - Time Sheets – Services
 - Overcrowding - Separations
- Many Other Classes
 - Remote Housing
 - Medical Supplies
 - Veterinary Services
 - Quarantine Tests
 - Quarantine Orders
 - Manual Billing Charges

INVOICES IN QUEUE

BILLING.INVOICE.MAINTAIN -Animal Bioware™ SII PC ©1999-2004

Home Close **BILLING.INVOICES.MAINTAIN**

PRINT
EMAIL
CAPTURE

General Invoice Information Invoice Items

ID: 000014 INVOICE NUMBER **CCM-10405-000014**

Investigator: Clavijo, Augustine	Invoice Sent to Investigator: Date Sent to Investigator:	Invoice Sent to A/P: Date Sent to A/P:	Total Amount Due: \$179.52 RECALCULATE INVOICE
Department: Cancer Pharmacology		Invoice FISCAL Period: APR 1 thru 30 2005	
Investigator Phone: (617) 374-7612		Invoice Calendar Month: Apr-05	
Investigator Fax:		Protocol: DPI-04-025	
Investigator Email: aclavijo@dpiboston.com			
Billing Contact:	Invoice Sent to Contact: Date Sent to Contact:	Comments:	
Department:			
Phone:			
Fax:			
Email:			

Animal Bioware™ SII Suite Copyright © 1999-2004 Digital Paradigms, Inc.

Application Version: 1.40 Form Version: Last Updated: 12-30-1899 MGUID Location: BILLING.INVOICES.MAINTAIN

- Hold Invoices In Queue
- Add Other Charges
- Unified Single / Bill
- Connects with A/P System
- Bill Back for Various Grants

RATE CARD / PROTOCOL GRANT MAPPING

- Protocol Grant Mapping
- Allows Different Grants
- Allows Percentages of Grants

BILLING.INVOICE.MAINTAIN - Animal Bioware™ SII PC ©1999-2004

Home Close **BILLING.GRANT.MAINTAIN**

CAPTURE Protocol Grant Information

PROTOCOL

Double Click to View or Edit

GRANT ITEMS	GRANT	CLASS	PERCENT ALLOCATED
ADD GRANT	12066-02	Per Diem	1200.00%
EDIT SELECTED	12066-02	Per Diem	1100.00%
DELETE SELECTED	12066-02	Per Diem	1000.00%
	12066-02	Per Diem	900.00%
	12066-02	Per Diem	800.00%
	12066-02	Per Diem	700.00%
	12066-02	Per Diem	600.00%
	12066-02	Per Diem	500.00%
	12066-02	Per Diem	400.00%
	12066-02	Per Diem	300.00%
	12066-02	Per Diem	200.00%
	12066-02	Per Diem	100.00%

Animal Bioware™ SII Suite Copyright ©1999-2004 Digital Paradigms, Inc.
Application Version: 1.40 Form Version: Last Updated: 12-30-1899 MSLUD Location: BILLING.GRANT.MAINTAIN

Animal Bioware™ SII PC - [BILLING - Animal Bioware™ SII PC ©1999-2004]

File Edit Close Help Type a question for help

Address Navigator Assistant Logout

ANIMAL BIOWARE™
SERIES II

ADMINISTRATION ANIMAL HEALTH ANIMAL ORDER **BILLING** BREEDING CENSUS FACILITY HUSBANDRY IACUC INVENTORY TECHNICAL SERVICES

Health Based
Procurement Based
Time Based
Misc
Cage Based

Double Click to Maintain Rate Item

Filter By Billing Class

CLASS	RATE ITEM	RATES	UCM	SPECIES
Per Diem	Fish Tank	99	Cage Day(s)	Fish
Per Diem	Frog Cage	0.33	Cage Day(s)	Frog
Per Diem	Gerbil Cage	99	Cage Day(s)	Gerbil
Per Diem	Coat Cage	21.07	Cage Day(s)	Coat
Per Diem	Guinea Pig Cage	2.09	Cage Day(s)	Guinea Pig
Per Diem	Hamster Cage	0.77	Cage Day(s)	Hamster
Per Diem	Monkey - Baboon Cage	17.6	Cage Day(s)	Monkey - Baboon
Per Diem	Monkey - Macaque Cage	15.29	Cage Day(s)	Monkey - Macaque
Per Diem	Monkey - Macaque Cyno	15.29	Cage Day(s)	Monkey - Macaque Cyno
Per Diem	Monkey - Macaque Rhes	15.29	Cage Day(s)	Monkey - Macaque Rhesus
Per Diem	Mouse Cage	0.83	Cage Day(s)	Mouse
Per Diem	Primate Cage	15.29	Cage Day(s)	Primate
Per Diem	Rabbit Cage	4.66	Cage Day(s)	Rabbit
Per Diem	Rat Cage	1.54	Cage Day(s)	Rat
Per Diem	Salamander Cage	0.33	Cage Day(s)	Salamander
Per Diem	Seal Cage	99	Cage Day(s)	Seal
Per Diem	Sheep Cage	21.07	Cage Day(s)	Sheep
Per Diem	Swine Cage	21.07	Cage Day(s)	Swine
Per Diem	Toad Cage	99	Cage Day(s)	Toad
Per Diem	Woodchuck Cage	99	Cage Day(s)	Woodchuck
Procurement	Bovine	29.7	Animal(s)	Bovine
Procurement	Cat	19.5	Animal(s)	Feline
Procurement	Chicken	29.7	Animal(s)	Chicken
Procurement	Dog	29.7	Animal(s)	Canine
Procurement	Duck	29.7	Animal(s)	Duck
Procurement	Eel	0.66	Animal(s)	Eel
Procurement	Ferret	29.7	Animal(s)	Ferret
Procurement	Fish	29.7	Animal(s)	Fish

Export to Excel

User ID: nimooe Station ID: DP_MOBILE Application Version: 1.93 Form Version: 1.95b Last Updated: 04-09-2005 MSLUD Location: BILLING
User Level: 999 NT Login ID: MjMoore


- Rate Card for Every Service
- Can Change Rate for Species Changes
- Unlimited Number of Rate / Service Combinations

INVOICE / CREDIT MEMO

- Automatically Email Invoices to PI's
- Send to Business Managers
- Issue Credit Memos
- Reprint for Audit Trail

Revision: 1.00 / 1-19-2005

INVOICE

Invoice Number: CCM-0405-000004 

Center for Comparative Medicine
149 13th Street, Charlestown MA

Center for Comparative Medicine
INVOICE INFORMATION

Protocol Number:
DPI-02-001

Invoice Number:
CCM-0405-000004

Date Sent to AP:

Calendar Month:
Apr-05

Total Invoice Amount
\$19.80

Contact Information:


<p>Investigator Information:</p> <table border="0"> <tr><td>Investigator:</td><td>Lutz, Kerstin</td></tr> <tr><td>Title:</td><td>Assoc. Dir. Veterinary Tech Srv</td></tr> <tr><td>Department:</td><td>Comparative Medicine</td></tr> <tr><td>Location:</td><td>40-6</td></tr> <tr><td>Room:</td><td>6024</td></tr> <tr><td>Phone:</td><td>(617) 554-7101</td></tr> <tr><td>Fac:</td><td></td></tr> <tr><td>Email:</td><td>klutz@qdboston.com</td></tr> </table>	Investigator:	Lutz, Kerstin	Title:	Assoc. Dir. Veterinary Tech Srv	Department:	Comparative Medicine	Location:	40-6	Room:	6024	Phone:	(617) 554-7101	Fac:		Email:	klutz@qdboston.com	<p>Billing Contact Information:</p> <table border="0"> <tr><td>Name:</td><td></td></tr> <tr><td>Title:</td><td></td></tr> <tr><td>Department:</td><td></td></tr> <tr><td>Location:</td><td></td></tr> <tr><td>Room:</td><td></td></tr> <tr><td>Phone:</td><td></td></tr> <tr><td>Fac:</td><td></td></tr> <tr><td>Email:</td><td></td></tr> </table>	Name:		Title:		Department:		Location:		Room:		Phone:		Fac:		Email:	
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Location:																																	
Room:																																	
Phone:																																	
Fac:																																	
Email:																																	

Invoice Detail:

BILLING CLASS TYPE:	Procurement
GRANT:	12006-02
UNITS:	UNIT OF MEASURE CLASS TYPE RATE TOTAL
60.00	Animals Procurement \$0.33 \$19.80
FACILITY:	ROOM: SPECIALS TECHNICIAN FISCAL PERIOD:
63	40 m 1 mouse Mxss APR 1 thru 30 2005
	GRANT TOTAL: \$19.80
	CLASS TYPE TOTAL: \$19.80

Revision: 1.00 / 5-23-2005

CREDIT MEMO

Credit Memo: CCM-CREDIT-0405-0001 

Center for Comparative Medicine
149 13th Street, Charlestown MA

Center for Comparative Medicine
INVOICE INFORMATION

Protocol Number:

Credit Memo:
CCM-CREDIT-0405-0001

Date Sent to AP:

Calendar Month:
Apr-05

Total Invoice Amount

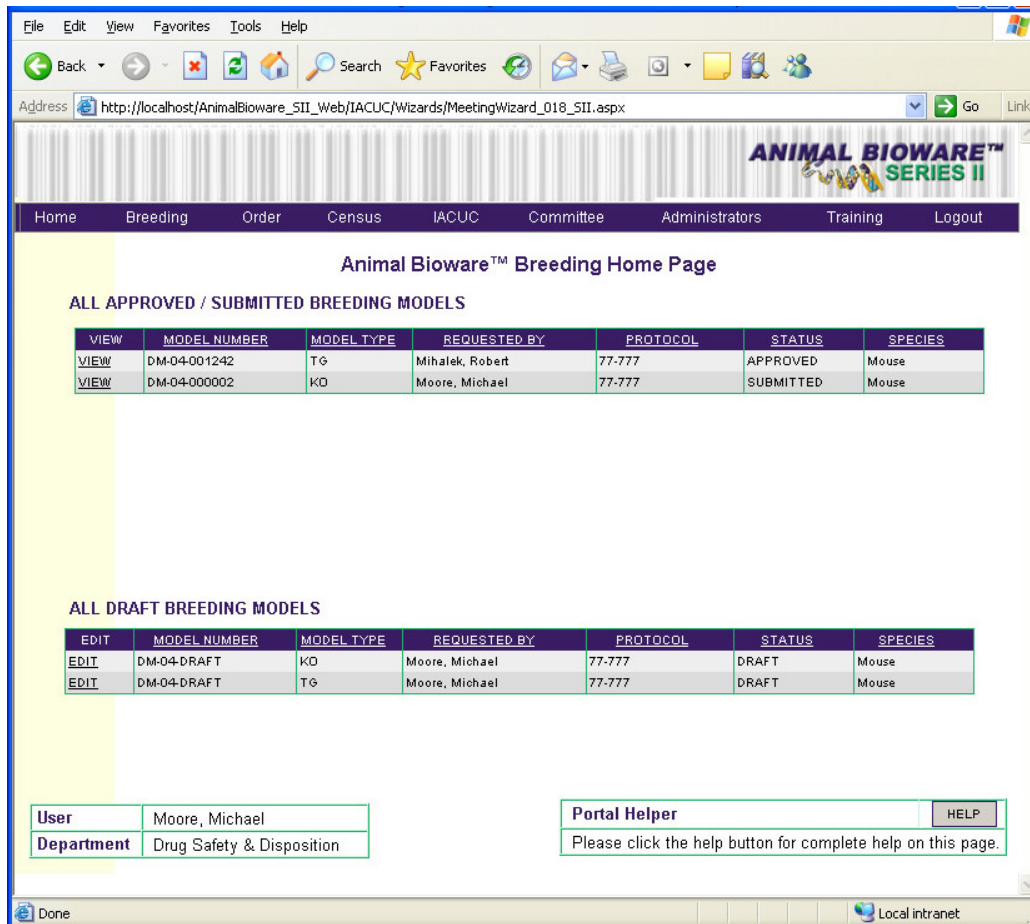
Contact Information:

<p>Investigator Information:</p> <table border="0"> <tr><td>Investigator:</td><td>Micro, Michael</td></tr> <tr><td>Title:</td><td>Vendor</td></tr> <tr><td>Department:</td><td>Drug Safety & Deposition</td></tr> <tr><td>Location:</td><td>40-6</td></tr> <tr><td>Room:</td><td>6024 C</td></tr> <tr><td>Phone:</td><td>(617) 444-2329</td></tr> <tr><td>Fac:</td><td></td></tr> <tr><td>Email:</td><td>oliver@qdboston.com</td></tr> </table>	Investigator:	Micro, Michael	Title:	Vendor	Department:	Drug Safety & Deposition	Location:	40-6	Room:	6024 C	Phone:	(617) 444-2329	Fac:		Email:	oliver@qdboston.com	<p>Billing Contact Information:</p> <table border="0"> <tr><td>Name:</td><td>Asmol, Clara</td></tr> <tr><td>Title:</td><td>Vendor</td></tr> <tr><td>Department:</td><td>Global Technical Services</td></tr> <tr><td>Location:</td><td>75-1</td></tr> <tr><td>Room:</td><td>1210 C</td></tr> <tr><td>Phone:</td><td>(617) 444-2156</td></tr> <tr><td>Fac:</td><td></td></tr> <tr><td>Email:</td><td>caasmr@qdboston.com</td></tr> </table>	Name:	Asmol, Clara	Title:	Vendor	Department:	Global Technical Services	Location:	75-1	Room:	1210 C	Phone:	(617) 444-2156	Fac:		Email:	caasmr@qdboston.com
Investigator:	Micro, Michael																																
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Room:	1210 C																																
Phone:	(617) 444-2156																																
Fac:																																	
Email:	caasmr@qdboston.com																																

Invoice Detail:

Approved By:	Invoice to Office:
Grant to Credit:	
Reason for Credit:	

ONLINE BREEDING MODEL CREATION



The screenshot shows a web browser window displaying the 'Animal Bioware™ Breeding Home Page'. The browser address bar shows the URL: `http://localhost/AnimalBioware_SII_Web/IACUC/Wizards/MeetingWizard_018_SII.aspx`. The page features a navigation menu with links for Home, Breeding, Order, Census, IACUC, Committee, Administrators, Training, and Logout. The main content area is titled 'Animal Bioware™ Breeding Home Page' and is divided into two sections: 'ALL APPROVED / SUBMITTED BREEDING MODELS' and 'ALL DRAFT BREEDING MODELS'. Each section contains a table with columns for Model Number, Model Type, Requested By, Protocol, Status, and Species. At the bottom, there are input fields for 'User' (Moore, Michael) and 'Department' (Drug Safety & Disposition), along with a 'Portal Helper' section containing a 'HELP' button and a message: 'Please click the help button for complete help on this page.'

VIEW	MODEL NUMBER	MODEL TYPE	REQUESTED BY	PROTOCOL	STATUS	SPECIES
VIEW	DM-04-001242	TG	Mihalek, Robert	77-777	APPROVED	Mouse
VIEW	DM-04-000002	KO	Moore, Michael	77-777	SUBMITTED	Mouse

EDIT	MODEL NUMBER	MODEL TYPE	REQUESTED BY	PROTOCOL	STATUS	SPECIES
EDIT	DM-04-DRAFT	KO	Moore, Michael	77-777	DRAFT	Mouse
EDIT	DM-04-DRAFT	TG	Moore, Michael	77-777	DRAFT	Mouse

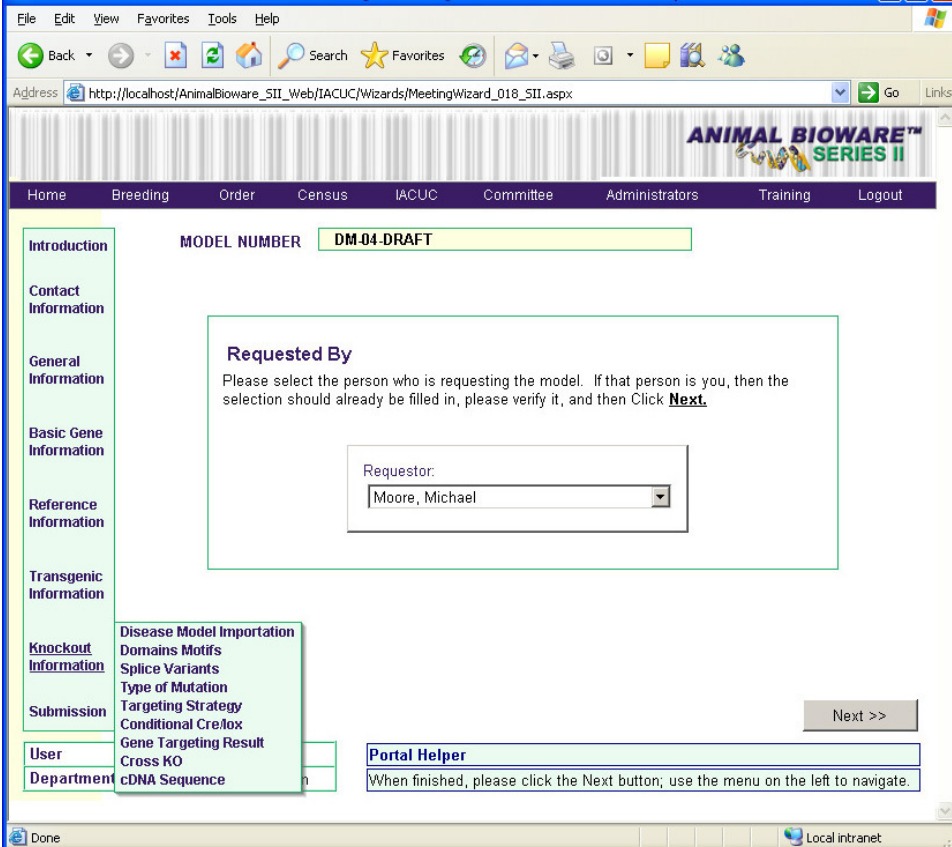
User	Moore, Michael
Department	Drug Safety & Disposition

Portal Helper	<input type="button" value="HELP"/>
Please click the help button for complete help on this page.	

- Web Based
- TG/KO Model Request
- Review / Approve Models
- Wizard Based
- Model Component
- Colony Component


MODEL REQUEST WIZARD

- Drop Down Driven
- Gene Information
- Mine ID
- Gene Family
- Gen-Bank Information
- Expression Patterns
- Construct Information
- Track Changes for TG/KO
- Import / Cryo. Information



File Edit View Favorites Tools Help

Address http://localhost/AnimalBioware_SII_Web/IACUC/Wizards/MeetingWizard_018_SII.aspx

ANIMAL BIOWARE™
 **SERIES II**

Home Breeding Order Census IACUC Committee Administrators Training Logout

MODEL NUMBER

Requested By
 Please select the person who is requesting the model. If that person is you, then the selection should already be filled in, please verify it, and then Click **Next**.

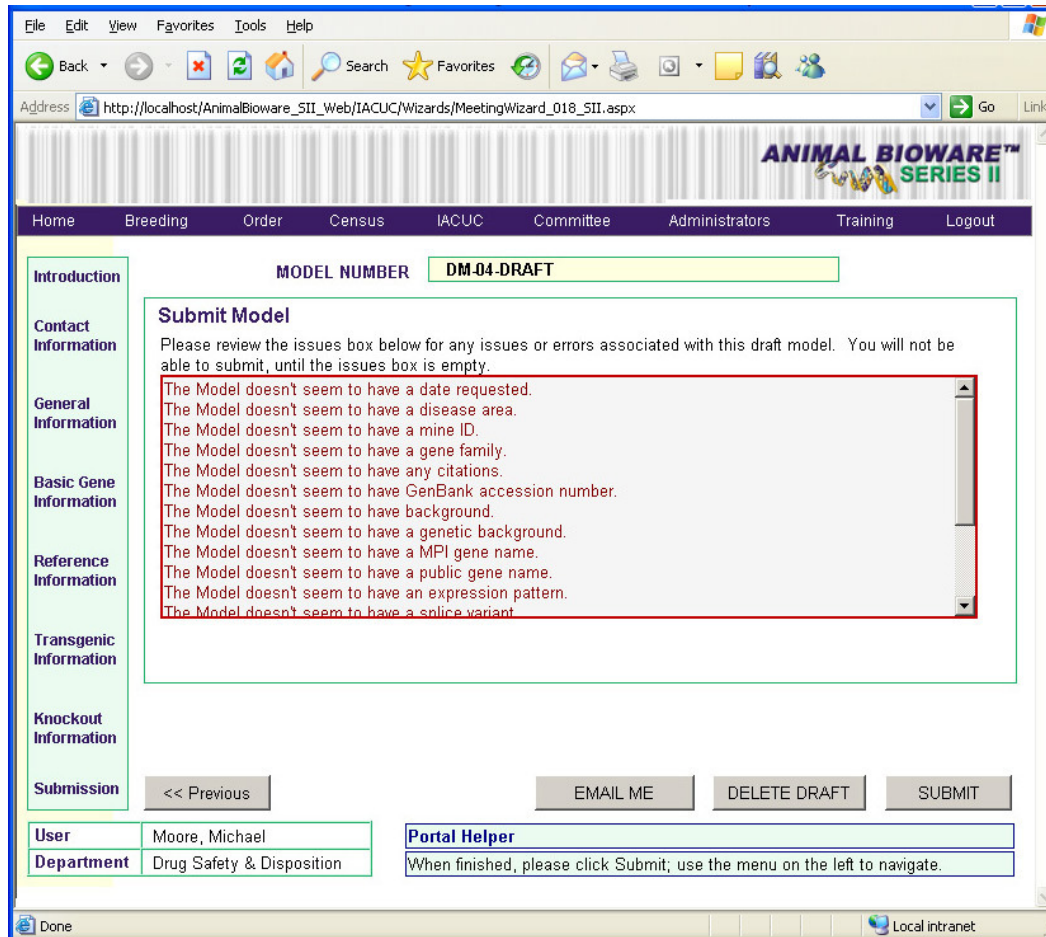
Requestor:

Next >>

Portal Helper
 When finished, please click the Next button; use the menu on the left to navigate.

Done Local intranet

RULES VALIDATION



The screenshot shows a web browser window displaying the 'Submit Model' page in the Animal Bioware Series II application. The browser address bar shows the URL: `http://localhost/AnimalBioware_SII_Web/IACUC/Wizards/MeetingWizard_018_SII.aspx`. The page features a navigation menu with links for Home, Breeding, Order, Census, IACUC, Committee, Administrators, Training, and Logout. The main content area is titled 'Submit Model' and includes a 'MODEL NUMBER' field containing 'DM-04-DRAFT'. Below this, a text box contains the following validation errors:

- The Model doesn't seem to have a date requested.
- The Model doesn't seem to have a disease area.
- The Model doesn't seem to have a mine ID.
- The Model doesn't seem to have a gene family.
- The Model doesn't seem to have any citations.
- The Model doesn't seem to have GenBank accession number.
- The Model doesn't seem to have background.
- The Model doesn't seem to have a genetic background.
- The Model doesn't seem to have a MPI gene name.
- The Model doesn't seem to have a public gene name.
- The Model doesn't seem to have an expression pattern.
- The Model doesn't seem to have a splice variant.

At the bottom of the page, there are buttons for '<< Previous', 'EMAIL ME', 'DELETE DRAFT', and 'SUBMIT'. A 'Portal Helper' box at the bottom right contains the text: 'When finished, please click Submit; use the menu on the left to navigate.'

- All Wizards Have
- Decided by Department
- Enforces Compliance
- Reduces Approval Times
- Reduces Errors

COLONY MANAGEMENT

Animal Bioware™ SII PC - [BREEDING - Animal Bioware™ SII PC ©1999-2004]

File Edit Close Help Type a question for help

Address Navigator GO Assistant Logout

ANIMAL BIOWARE™
SERIES II

ADMINISTRATION ANIMAL HEALTH ANIMAL ORDER BILLING BREEDING CENSUS FACILITY HUSBANDRY IACUC INVENTORY TECHNICAL SERVICES

Model Management
Colony Management

Breeding Models Colony Management Mating Pairs

Filter By Animal ID
Filter By Line Name
Filter By Protocol:
Filter By Strain:
Filter By Mother Animal ID
Filter By Cage ID:
Filter by DOB:
Filter By Room:
Filter By Gender:
Filter by Genotype:

Double Click to Edit Animal

Animal ID	Mother	Father	Line	Species	Strain	Protocol	PI
0040006.1.1M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0090001.1.2M			B6-TBK1FL+K	Mouse	B6-TBK1FL+K		
0090002.1.2F			B6-TBK1FL+K	Mouse	B6-TBK1FL+K		
0090002.1.1M			B6-TBK1FL+K	Mouse	B6-TBK1FL+K		
0090013.1.4M			B6-TBK1FL+K	Mouse	B6-TBK1FL+K		
0090013.1.3M			B6-TBK1FL+K	Mouse	B6-TBK1FL+K		
0090013.1.2M			B6-TBK1FL+K	Mouse	B6-TBK1FL+K		
0090013.1.1M			B6-TBK1FL+K	Mouse	B6-TBK1FL+K		
0090001.1.1F			B6-TBK1FL+K	Mouse	B6-TBK1FL+K		
0010004.1.1F			DBA-C5aR KO	Mouse	DBA-C5aR KO		
0010004.1.3F			DBA-C5aR KO	Mouse	DBA-C5aR KO		
0010001.1.2M			DBA-C5aR KO	Mouse	DBA-C5aR KO		
0010003.1.2M			DBA-C5aR KO	Mouse	DBA-C5aR KO		
0010013.1.3M			DBA-C5aR KO	Mouse	DBA-C5aR KO		
0010013.1.2M			DBA-C5aR KO	Mouse	DBA-C5aR KO		
0010013.1.1M			DBA-C5aR KO	Mouse	DBA-C5aR KO		
0010004.1.2F			DBA-C5aR KO	Mouse	DBA-C5aR KO		
0040002.1.2M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040002.1.1F			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040010.1.4M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040010.1.3M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040010.1.2M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040010.1.1M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040008.1.1M		0040006.1.1M	B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040013.1.3M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040013.1.2M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0040013.1.1M			B6-IkKeKl+MI03	Mouse	B6-IkKeKl+MI03		
0050007.1.1F			B6-CD11a-hCr	Mouse	B6-CD11a-hCr		

Reset Filter Filter Export to Excel

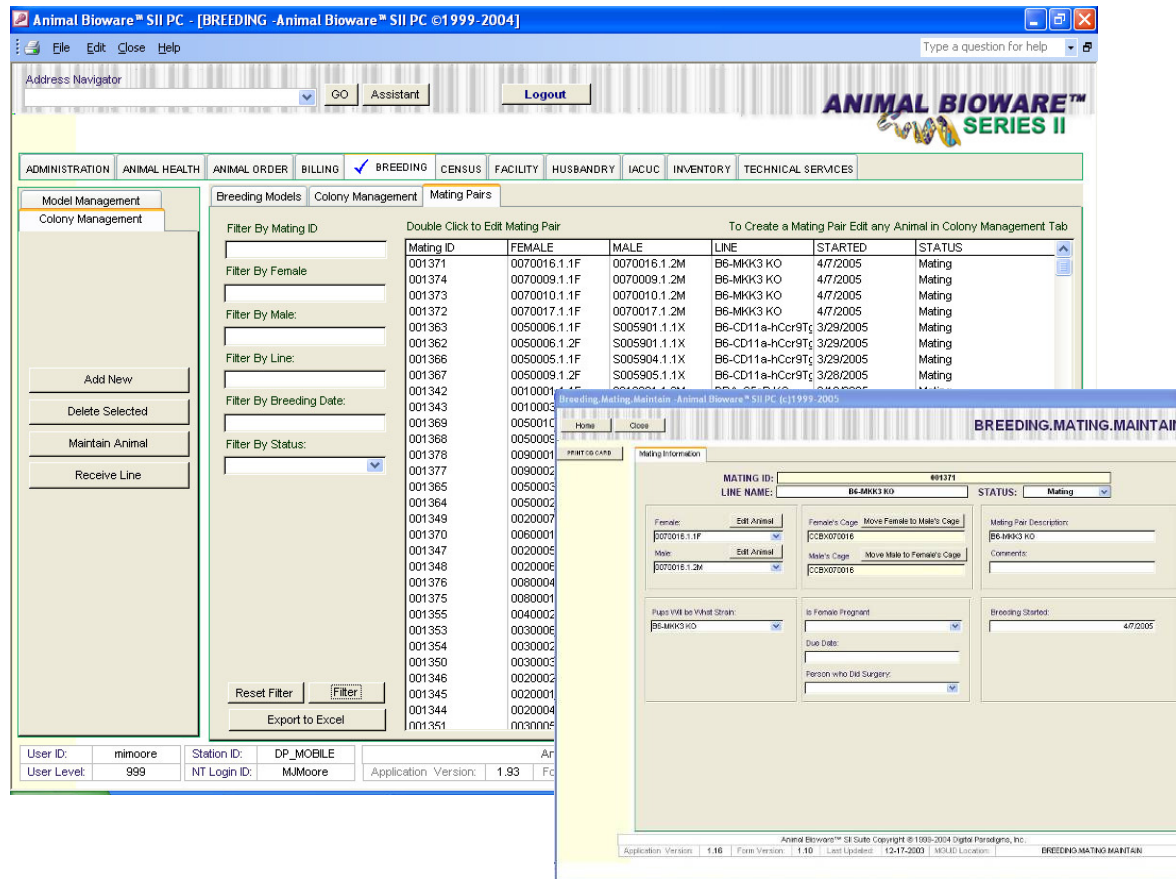
User ID: mimoore Station ID: DP_MOBILE
User Level: 999 NT Login ID: MJMoore

Animal Bioware™ SII PC Copyright ©1999-2004 Digital Paradigms, Inc.
Application Version: 1.93 Form Version: 1.95 Last Updated: 04-05-2005 MGUID Location: BREEDING

- Mating Pair Tracking
- Litter Information
- Genotyping Information
- Pedigree Information
- Breeding Protocol
- Destination Protocol
- Line Tracking
- Color Cage Cards

MATING PAIR MANAGEMENT

- Handles Harem Breeding
- Auto Cage Card
- Print Card from Mating
- Mating Pair Leveling



The screenshot shows the 'Breeding, Mating, Maintain' window in the Animal Bioware Series II software. The main window displays a table of mating pairs with columns for Mating ID, Female, Male, Line, Started, and Status. A filter sidebar on the left allows filtering by Female, Male, Line, Breeding Date, and Status. A detailed view of a mating pair (Mating ID: 001371) is shown in a pop-up window, including fields for Female and Male IDs, Strain, and Breeding Started date.

Mating ID	FEMALE	MALE	LINE	STARTED	STATUS
001371	0070016.1.F	0070016.1.M	B6-MK3 KO	4/7/2005	Mating
001374	0070009.1.F	0070009.1.M	B6-MK3 KO	4/7/2005	Mating
001373	0070010.1.F	0070010.1.M	B6-MK3 KO	4/7/2005	Mating
001372	0070017.1.F	0070017.1.M	B6-MK3 KO	4/7/2005	Mating
001363	0050006.1.F	S005901.1.X	B6-CD11a-hCor9Tg	3/29/2005	Mating
001362	0050006.1.F	S005901.1.X	B6-CD11a-hCor9Tg	3/29/2005	Mating
001366	0050005.1.F	S005904.1.X	B6-CD11a-hCor9Tg	3/29/2005	Mating
001367	0050008.1.F	S005905.1.X	B6-CD11a-hCor9Tg	3/29/2005	Mating

BREEDING.MATING.MAINTAIN

MATING ID: 001371
 LINE NAME: B6-MK3 KO
 STATUS: Mating

Female: 0070016.1.F
 Male: 0070016.1.M

Female's Cage: CCBW070016
 Male's Cage: CCBW070016

Is Female Pregnant:
 Breeding Started: 4/7/2005

BREEDING – Individual Animal Information

- Pedigree Information
- Individual Identity
- Ear/Tail Mark Tracking
- RFID Number Tracking
- Backcross/Stock Animal Tracking

ANIMAL BIOWARE™
SERIES II

Protocol	Investigator
Species	E OS Room
Mice	Unknown
ID: 0050016.1.1M	DOB: 3/4/2005 LN: 6-CD11a-h Cor9T
Ear: F: N6 N: FD Coat:	
ID: 0050016.1.2M	DOB: 3/4/2005 LN: 6-CD11a-h Cor9T
Ear: F: N6 N: FD Coat:	
ID: 0050016.1.3M	DOB: 3/4/2005 LN: 6-CD11a-h Cor9T
Ear: F: N6 N: FD Coat:	
ID: 0050016.1.4M	DOB: 3/4/2005 LN: 6-CD11a-h Cor9T
Ear: F: N6 N: FD Coat:	
ID: 0050016.1.5M	DOB: 3/4/2005 LN: 6-CD11a-h Cor9T
Ear: F: N6 N: FD Coat:	

Notes



CCBX050016

BREEDING.COLONY.MAINTAIN - Animal Bioware™ SII PC ©1999-2004

Home Close BREEDING.COLONY.MAINTAIN

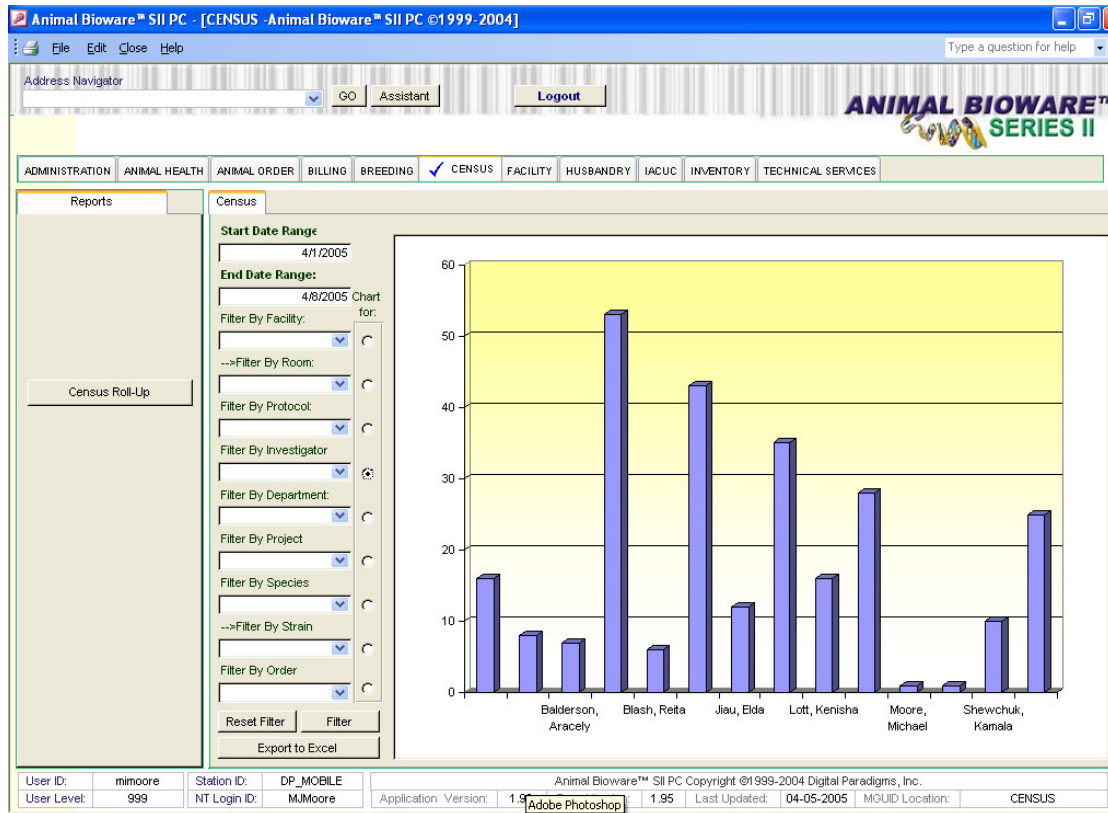
Animal Information Page 1 Animal Information Page 2

ANIMAL ID: 0040008.1.1M 000488
 LINE NAME: B6-IkKeKl-MiI035> STATUS: Alive

Breeding Cage Number: CCBX040008 Generate
 Facility Cage Number:
 Exported to Facility Date:
 Card Color Left Bar: Lavender Blush
 Card Color Middle Bar: White
 Card Color Right Bar: White
 L M R
 Ear Marking:
 From Order:
 Vendor:
 Facility: 88-5
 Room:
 Rack:
 Coat Color:
 Percent Chimera:
 Age: 13 Weeks Generate
 Date of Birth: 1/8/2005
 Weight:
 Gender: Male
 Mating Pair:
 Litter Number:
 Animal ID: 0040008.1.1M Generate
 Animal Model:
 Animal Litter Sequence Number: 1
 Mouse GT ID Number:
 Breeding Protocol: DPI-04-006
 Destination Protocol:
 Species: Mouse
 Strain: B6-IkKeKl-MiI035>
 Host Strain ID:
 Blastocyst:
 Arrival Date: 4/4/2005
 End of Study Date:
 Special Instructions:
 Parent Mother: Edit Animal
 Parent Father: Edit Animal
 F Generation: N1
 N Generation: F1

Animal Bioware™ SII Suite Copyright © 1999-2004 Digital Paradigms, Inc.
 Application Version: 1.93 Form Version: Last Updated: 12-30-1899 MGUID Location: BREEDING.COLONY.MAINTAIN

ANIMAL CENSUS



- Space Reports
- Protocol Reports
- Drives Billing
- Drives Capacity Planning Scheduling
- Drives Cage Card Reprints
- Raw Data Output
- Filtering Capabilities

MOBILE CENSUS

Order Number: 02-0000

Requestor: Lambert, Glenda
Investigator: Ison, Candy

Protocol: DD-140
Species: Mouse

Strain: Arriva
How purchased: ICE
Gender: Female
Room: 114 BR in 6 house
Department: Hyattsville

Notes:

PROTOCOL LICENSE DPI-04-2012			
INVESTIGATOR	LAB CONTACT	PHONE	
Silverman, Jerry DVM	Smith, John	88445	
SPECIES	STRAIN	AGE / WEIGHT	DOS
MOUSE	BALB/c	3 Weeks MA	1 MAY 12
SEX	ARRIVAL	FACILITY	ROOM
MALE	28 MAY 12	640 A	640-A Barrier
ANIMAL VENDOR	ORDER NUMBER		
AnimalOrders.com	OR-12-001		
SPECIAL INSTRUCTIONS Notify PI when animals arrive.			

FRONT SIDE

BACK SIDE



- Auto Login Via Barcode
- Touch Screen
- Single Button to Census
- 3 Step Process
 - Scan Room
 - Scan Rack
 - Scan Cage, Cage, Cage
- Audible Beep
- Scan Cage Multiple Times
- RFID or Barcode Capabilities

ANIMAL CENSUS – Roll Up Report

- Rolled up By
 Protocol
 Room
 Facility
 Species
 Grant/Project
- Any Census Date Range

ANIMAL BIOWARE™
SERIES II

Date Range: 04-01-2005 - 04-08-2005

Census Roll Up Report

FACILITY
 88-1

Facility Census - Department

Department:	Cage Count:	Animal Count:	Facility:
Imaging Sciences	13	26	88-1
Comparative Medicine	1	2	88-1
2 Total Department(s) @ Facility	14	28	

Facility Census - Project

Project ID:	Project Name:	Cage Count:	Animal Count:	Facility:
				88-1
				88-1

Page 1 of 11

ANIMAL BIOWARE™
SERIES II

Date Range: 04-01-2005 - 04-08-2005

Census Roll Up Report

Room
 45-1 rm 1 rat

Department

Department:	Cage Count:	Animal Count:	Facility:	Room:
Imaging Sciences	6	12	88-1	45-1 rm 1 rat
1 Total Department(s) in Room	6	12		

Project

Project ID:	Project Name:	Cage Count:	Animal Count:	Facility:	Room:
19076-20	Imaging Sciences (Rodent)	6	12	88-1	45-1 rm 1 rat
1 Total Project(s) in Room		6	12		

Species

Species:	Cage Count:	Animal Count:	Facility:	Room:
Rat	6	12	88-1	45-1 rm 1 rat
1 Total Species in Room	6	12		

Space Allocation

Cage Count:	Facility Capacity:	% Utilization:	Space for # Cages:	Facility:	Room:
6	56	10.71%	50	88-1	45-1 rm 1 rat

Sunday, April 17, 2005

Page 2 of 11

ANIMAL ORDER APPROVAL

FACILITY_ORDERS.APPROVE - Animal Bioware™ SII PC ©1999-2004

Home Close **FACILITY_ORDERS.APPROVE**

Status / Fulfillment More Order Information

PRINT ORDER
 PRINT PROTOCOL
 EMAIL

PROTOCOL: VERSION:
 ORDER NUMBER: PI:

Facility Allocation:

Facility Approval By: Date Facility Allocated Space: Status:

General Information:

Requested Facility: Requestor: Date Order was Submitted:
 Requested Room: Order Desk Approval: Date Placed with Vendor:

Species: Strain:
 QTY: Animals Per Cage: Gender: Weight Range: Age Range:
 Special Handling Instructions:

Animal Bioware™ SII Suite Copyright © 1999-2004 Digital Paradigms, Inc.
 Application Version: 1.93 Form Version: Last Updated: 12-30-1899 MGUID Location: FACILITY_ORDERS.APPROVE

- Approve Orders
- Space Allocation
- Scheduling
- Space Utilization
- Capacity Information

FACILITIES– Functions / Reports

- Arrival Reports
- Predictor Reports
- Monthly Reports

Animal Bioware™ SII PC - [FACILITY -Animal Bioware™ SII PC ©1999-2004]

File Edit Close Help Type a question for help

Address Navigator GO Assistant Logout

ADMINISTRATION ANIMAL HEALTH ANIMAL ORDER BILLING BREEDING CENSUS **FACILITY** HUSBANDRY IACUC INVENTORY TECHNICAL SERVICES

Before Delivery Reports
After Delivery Reports
Orders

Allocation Approval
Double Click to Approve Order

Filter By Order	Order Number	Facility	Room	Quantity	Requested	Investigator	Protocol Ord#	Species	Submitted
	05-021314	88-5	45-5 Rm 1 mous	5	3/29/2005	Moore, Michael	DPI-77-777	Mouse	3/18/2005 10:00:00.
Filter By Facility:	05-021646	72	35 rm 2 mouse	21	4/26/2005	Alamia, Christina	DPI-04-019	Mouse	4/14/2005 2:04:00 PI

Filter By Room: [Dropdown]
Reset Filter Filter
Advanced Filtering

Approve Orders

User ID: mimoore Station ID: DP_MOBILE Animal Bioware
User Level: 999 NT Login ID: M.Moore Application Version: 1.93 Form Version

Animal Arrival Report

Orders Received

Facility [Dropdown] Room [Dropdown]

Report Start Date: April 2005

Mon	Tue	Wed	Thu	Fri	Sat	Sun
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

 Ctrl + T = Today

Report Stop Date: April 2005

Mon	Tue	Wed	Thu	Fri	Sat	Sun
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

 Ctrl + T = Today

View / Print Report Cancel

Animal Bioware™ SII Suite Copyright © 1999-2004 Digital Paradigms, Inc.
Application Version: 1.93 MGUID Location: Animal Arrival Report

ANIMAL BIOWARE™ SERIES II

Animal Arrival Report
Printed: 4/17/2005
Date Range: 4/10/2005 - 5/9/2005

Requested Facility: 72

Order Number	Requested Facility	Requested Room	Requested Date	Qty
05-021595	72	35 rm 3 mouse	4/19/2005	24
05-021596	72	35 rm 3 mouse	4/19/2005	30
05-021581	72	35 rm 2 mouse	4/19/2005	18
05-021569	72	35 rm 2 mouse	4/19/2005	4

Other Handling Instructions:
Please place mice in bank 1. Thank you.

These mice are from the OCR6 H0 colony
ID #: Mike: 638, 640, 641, 642, 647, 648, 649, 650, 651, 655, 656, 657, 659
Female: 655, 656, 657, 661

Sunday, April 17, 2005 Page 1 of 8

HOUSING & RECEIVING

- Filter Capabilities
- Automatic Cage Card Creation
- Email Notifications
- Received Room/Animal Info.

Animal Bioware™ SII PC - [HUSBANDRY -Animal Bioware™ SII PC ©1999-2004]

File Edit Close Help Type a question for help

Address Navigator GO Assistant Logout

ANIMAL BIOWARE™ SERIES II

ADMINISTRATION ANIMAL HEALTH ANIMAL ORDER BILLING BREEDING CENSUS FACILITY **HUSBANDRY** IACUC INVENTORY TECHNICAL SERVICES

Receiving Operations Add'l Cage Card Operations Cage Maintenance Reprint Card Requests

Double Click to begin Receiving Operations

Filter By Order	Order Number	Facility	Investigator	Order Protocol	Species
	03-10621		Shewchuk, Kamala	DPI-02-028	Rat
	03-10170		Alamia, Christena	DPI-02-019	Mouse
	03-10161		Shewchuk, Kamala	DPI-02-028	Rat
	03-11487		Speidel, Roselee	DPI-03-034	Rat
	03-11555		Beermudez, Efrain	DPI-03-033	Mouse
	03-11556		Beermudez, Efrain	DPI-03-033	Mouse
	04-12195	72	Jau, Elda	DPI-02-005	Mouse
	04-12223		Ziemski, Chi	DPI-04-005	Mouse
	04-12224		Ziemski, Chi	DPI-04-005	Mouse
	04-12276	63	Langlois, Paola	DPI-03-006	Mouse
	04-12296		Mizuno, Carol	DPI-02-063	Mouse
	04-12297		Mizuno, Carol	DPI-02-063	Mouse
	04-12299		Mizuno, Carol	DPI-02-063	Mouse
	04-12300		Mizuno, Carol	DPI-02-063	Mouse
	04-12318		Ziemski, Chi	DPI-04-009	Mouse
	04-12319		Ziemski, Chi	DPI-04-005	Mouse
	04-12343		Ziemski, Chi	DPI-04-005	Mouse
	04-12351	72	Speidel, Roselee	DPI-01-74	Mouse
	04-12355	72	Speidel, Roselee	DPI-01-74	Mouse
	04-12357	72	Eglin, Marilee	DPI-02-015	Mouse
	04-12371		Ziemski, Chi	DPI-04-005	Mouse
	04-12372		Ziemski, Chi	DPI-04-005	Mouse
	04-12400		Ziemski, Chi	DPI-04-005	Mouse
	04-12402		Ziemski, Chi	DPI-04-009	Mouse
	04-12436		Moccollester, Steve	DPI-04-018	Mouse
	04-12484		Ziemski, Chi	DPI-04-005	Mouse
	04-12485		Ziemski, Chi	DPI-04-005	Mouse
	04-12511		Ziemski, Chi	DPI-04-009	Mouse
	04-12526		Ziemski, Chi	DPI-04-009	Mouse

Filter By Investigator

Filter By Facility

Filter By Protocol

Reset Filter Filter

Advanced Filtering

Export to Excel

User ID: mimooe Station ID: DP_MOBILE
 User Level: 999 NT Login ID: M.Moore

Animal Bioware™ SII PC Copyright ©1999-2004 Digital Paradigms, Inc.

Application Version: 1.93 Form Version: 1.95d Last Updated: 04-14-2005 MGUID Location: HUSBANDRY

CAGE CARD CREATION

HUSBANDRY - Animal Bioware™ SII PC ©1999-2004

Home Close HUSBANDRY

PRINT ORDER Print Cage Cards Order Information

PROTOCOL: **DPI-02-028** LATEST VERSION: **FINAL 1 10-23-2002**

ORDER NUMBER: **03-10161**

Facility: 88-1 Overall Cage Capacity:

Address: 88 Parker Street Total Footage:

City: Current Number of Cages:

State: Stock Space:

ZIP:

Room:

D.O.B.: Today

Arrival Date: Today

QTY Arrived:

Number of Animals: 2

Number of Cages: 10

Requestor: Astacio, Kelle Investigator: Alamia, Christena

Protocol: DPI-02-066 Species: Mice

Strain	Arrival	DOB
C57BL/6	4/17/2005	4/17/2005

Gender	Count	EOS
Male	4	8/30/2004

Room: 35 m 2 mouse Vendor: Charles River Laboratories

Department: Inflam - NFKB

Notes:

Animal Bioware™ SII Suite Copyright © 1999-2004 Digital Pa
Application Version: 1.93 Form Version: 1.95d Last Updated: 04-14-2005 MGUID Locatio

- Simple Click
- Animals Per Cage
- Arrival Information
- Print Cards Using Normal Printers

ANIMAL BIOWARE™ SERIES II Order Number 04-12142

Requestor	Investigator
Astacio, Kelle	Alamia, Christena

Protocol	Species
DPI-02-066	Mice

Strain	Arrival	DOB
C57BL/6	4/17/2005	4/17/2005

Gender	Count	EOS
Male	4	8/30/2004

Room: 35 m 2 mouse Vendor: Charles River Laboratories

Department: Inflam - NFKB

Notes:



CC00078340

ANIMAL BIOWARE™ SERIES II Order Number 04-12142

Requestor	Investigator
Astacio, Kelle	Alamia, Christena

Protocol	Species
DPI-02-066	Mice

Strain	Arrival	DOB
C57BL/6	4/17/2005	4/17/2005

Gender	Count	EOS
Male	4	8/30/2004

Room: 35 m 2 mouse Vendor: Charles River Laboratories

Department: Inflam - NFKB

Notes:



CC00078341

ANIMAL BIOWARE™ SERIES II Order Number 04-12142

Requestor	Investigator
Astacio, Kelle	Alamia, Christena

Protocol	Species
DPI-02-066	Mice

Strain	Arrival	DOB
C57BL/6	4/17/2005	4/17/2005

Gender	Count	EOS
Male	4	8/30/2004

Room: 35 m 2 mouse Vendor: Charles River Laboratories

Department: Inflam - NFKB

Notes:



CC00078342

CAGE CARD REPRINTS / CAGE MAINTENANCE

- Cage Card Reprints
 Single Click Reprints
- Maintain Cages
 Easily Maintain Cages
 Investigator Kept Current

HUSBANDRY - Animal Bioware™ SII PC ©1999-2004

Home Close HUSBANDRY

Additional Cage Card Operations Order Information

PROTOCOL: LATEST VERSION:

Facility <input type="text" value="72"/>	Room <input type="text" value="35 rm 2 mouse"/>
Facility <input type="text" value="72"/>	D.O.B. <input type="text" value=""/>
Address <input type="text" value="72 Main Street"/>	Arrival Date <input type="text" value=""/>
City <input type="text" value=""/>	QTY Arrived <input type="text" value="30"/>
State <input type="text" value=""/>	Number of Animals Per Cage <input type="text" value="4"/>
ZIP <input type="text" value=""/>	Number of Cages <input type="text" value="8"/>

Overall Cage Capacity
Total Footage
Current Number of Cages
Stock Space

Animal Bioware™ SII Suite Copyright © 1999-2004 Digital Paradigms, Inc.
 Application Version: 1.93 Form Version: 1.95d Last Updated: 04-14-2005 MGUID Location: HUSBANDRY

HUSBANDRY.CAGES.MAINTAIN CAGES - Animal Bioware™ SII PC ©1999-2004

Home Close HUSBANDRY.CAGES.MAINTAIN CAGES

PRINT CARD Maintain Cages Vendor Information

CAGE NUMBER:

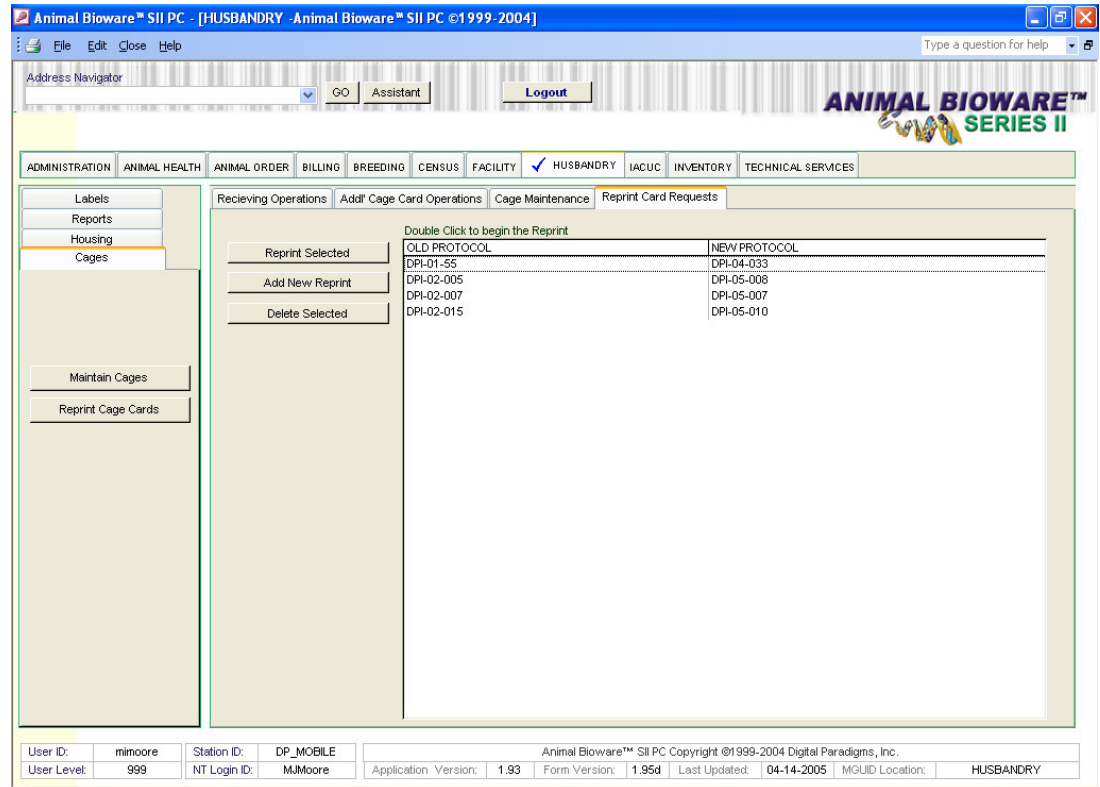
Arrival Date <input type="text" value="4/14/2005"/>	Room <input type="text" value="40 rm 1 mouse"/>	Rack <input type="text" value=""/>	Requestor <input type="text" value="Lott, Kenisha"/>	Investigator <input type="text" value="Lott, Kenisha"/>
Date of Birth <input type="text" value="4/14/2005"/>	Room Number <input type="text" value="NA"/>	Row <input type="text" value=""/>	Department <input type="text" value="Comparative Medicine"/>	Department <input type="text" value="Comparative Medicine"/>
End of Study Date <input type="text" value="3/5/2002"/>	Cage Capacity <input type="text" value="480"/>	Side <input type="text" value=""/>	Requestor Phone <input type="text" value=""/>	Investigator Phone <input type="text" value="(617) 374-7601"/>
Animal Count <input type="text" value="3"/>	Footage <input type="text" value=""/>	Age <input type="text" value="6-8 wks"/>	Requestor Fax <input type="text" value=""/>	Investigator Fax <input type="text" value=""/>
Weight <input type="text" value=""/>	Cost Per Foot <input type="text" value=""/>	Gender <input type="text" value="Female"/>	Requestor Email <input type="text" value=""/>	Investigator Email <input type="text" value="klott@dpiboston.com"/>

Facility <input type="text" value="63"/>	Card Color Left Bar <input type="text" value=""/>	Protocol <input type="text" value="DPI-02-001"/>	Project <input type="text" value=""/>
Facility <input type="text" value="63"/>	Card Color Middle Bar <input type="text" value=""/>	Protocol <input type="text" value="DPI-02-001"/>	Name <input type="text" value=""/>
Address <input type="text" value="63 Franklin Street"/>	Card Color Right Bar <input type="text" value=""/>	Version <input type="text" value="FINAL 2 10/18/2004"/>	
City <input type="text" value=""/>		Protocol End of Study Date <input type="text" value="1/21/2005"/>	
State <input type="text" value=""/>		Status <input type="text" value="ARCHIVED"/>	
ZIP <input type="text" value=""/>			

Application Version: 1.93 Form Version: Last Updated: 12-30-1899 MGUID Location: HUSBANDRY.CAGES.MAINTAIN CAGES

PROTOCOL RENEWAL REPRINTS

- Transfer Animals from Protocol
- Use Last Census For Reprint
- IACUC Communication Tool



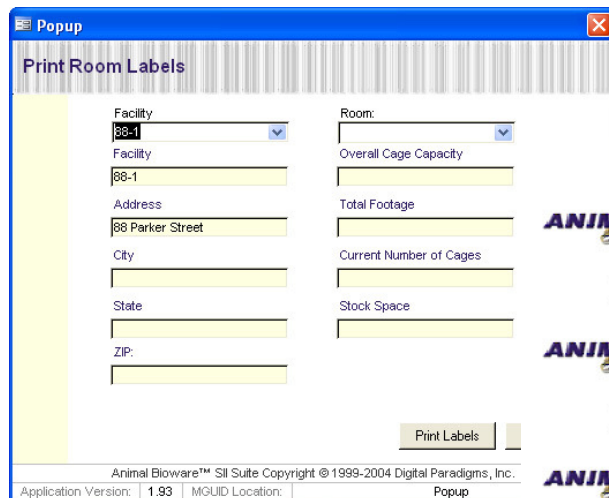
The screenshot shows the Animal Bioware SII PC software interface. The window title is "Animal Bioware™ SII PC - [HUSBANDRY - Animal Bioware™ SII PC ©1999-2004]". The interface includes a menu bar (File, Edit, Close, Help), an address navigator, and a navigation pane on the left with options like Labels, Reports, Housing, Cages, Maintain Cages, and Reprint Cage Cards. The main area displays the "Reprint Card Requests" screen, which is titled "Double Click to begin the Reprint". It features a table with two columns: "OLD PROTOCOL" and "NEW PROTOCOL".

OLD PROTOCOL	NEW PROTOCOL
DPI-01-55	DPI-04-033
DPI-02-005	DPI-05-008
DPI-02-007	DPI-05-007
DPI-02-015	DPI-05-010

At the bottom of the interface, there is a status bar with the following information:

User ID: minoore	Station ID: DP_MOBILE	Animal Bioware™ SII PC Copyright ©1999-2004 Digital Paradigms, Inc.			
User Level: 999	NT Login ID: M.Moore	Application Version: 1.93	Form Version: 1.95d	Last Updated: 04-14-2005	MGUID Location: HUSBANDRY

OTHER BARCODE LABELS



ANIMAL BIOWARE™
SERIES II

45-1 m 1 mouse
[Barcode]

ANIMAL BIOWARE™
SERIES II

45-1 m 1 rat
[Barcode]

ANIMAL BIOWARE™
SERIES II

45-1 m 2 mouse
[Barcode]

ANIMAL BIOWARE™
SERIES II

45-1 m 2 rat
[Barcode]

- Uses Regular Avery Stock
- Allow Staff to Reprint
 - Room Labels
 - Login Labels
 - Rack Labels
 - Facility Labels

ANIMAL BIOWARE™
SERIES II

Moore, Michal

[Barcode]



CAGE CARDS

- Breeding Cage Cards
 - Color By Line / Strain
 - Animal Information
- Conventional Cage Cards
- Bar-Coded
- Easily Re-Print
- Uses Regular Avery Stock

ANIMAL BIOWARE™
SERIES II

Protocol		Investigator	
Species	EOS	Room	
Mice		Unknown	
ID: 0050016.1.1M	DOB: 3/14/2005	LN: 8-CD11a-h-Cor9T	
Ear:	F: N6 N: F0	Coat:	
ID: 0050016.1.2M	DOB: 3/14/2005	LN: 8-CD11a-h-Cor9T	
Ear:	F: N6 N: F0	Coat:	
ID: 0050016.1.3M	DOB: 3/14/2005	LN: 8-CD11a-h-Cor9T	
Ear:	F: N6 N: F0	Coat:	
ID: 0050016.1.4M	DOB: 3/14/2005	LN: 8-CD11a-h-Cor9T	
Ear:	F: N6 N: F0	Coat:	
ID: 0050016.1.5M	DOB: 3/14/2005	LN: 8-CD11a-h-Cor9T	
Ear:	F: N6 N: F0	Coat:	
Notes			

Barcode: CCBX050016

ANIMAL BIOWARE™ Order Number 04-12142
SERIES II

Requestor		Investigator	
Astacio, Kelle		Alamia, Christena	
Protocol		Species	
DPI-02-066		Mice	
Strain	Arrival	DOB	
C57BL/6	4/17/2005	4/17/2005	
Gender	Count	EOS	
Male	4	8/30/2004	
Room		Vendor	
35 m 2 mouse		Charles River Laboratories	
Department			
Inflam - NFkB			
Notes			

Barcode: CC00078340

ANIMAL BIOWARE™ Order Number 04-12142
SERIES II

Requestor		Investigator	
Astacio, Kelle		Alamia, Christena	
Protocol		Species	
DPI-02-066		Mice	
Strain	Arrival	DOB	
C57BL/6	4/17/2005	4/17/2005	
Gender	Count	EOS	
Male	4	8/30/2004	
Room		Vendor	
35 m 2 mouse		Charles River Laboratories	
Department			
Inflam - NFkB			
Notes			

Barcode: CC00078341

ANIMAL BIOWARE™ Order Number 04-12142
SERIES II

Requestor		Investigator	
Astacio, Kelle		Alamia, Christena	
Protocol		Species	
DPI-02-066		Mice	
Strain	Arrival	DOB	
C57BL/6	4/17/2005	4/17/2005	
Gender	Count	EOS	
Male	4	8/30/2004	
Room		Vendor	
35 m 2 mouse		Charles River Laboratories	
Department			
Inflam - NFkB			
Notes			

Barcode: CC00078342

INVESTIGATOR TOOL – Cage Card Printing

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ANIMAL BIOWARE™
SERIES II

Exit

Cage Card Creation Instructions Cage Card Stock Information

ANIMAL BIOWARE™
SERIES II

Investigator: Leaf, Alexander	Protocol: 2000N000202	Strain: 129/J	# of Animals: 4
Order Number: CCMD048330	Requestor: Abbara, Suhny	Species: Mouse	End of Study: 12/24/2004
Department: Immunogenetics Lab	Facility: 149-8	Room: 5036	Gender: Male
DOB: 11/20/2004	Arrival: 11/27/2004	Vendor: Charles River Laboratories	

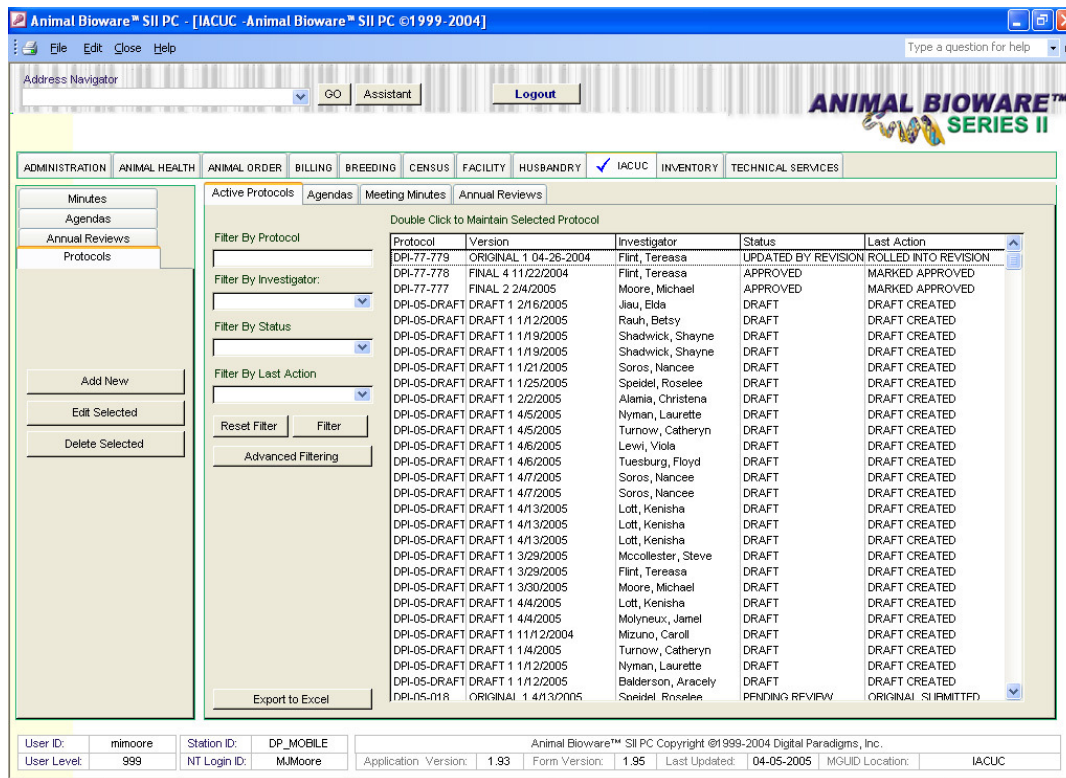
Notes:
This is a founder, please notify vet-tech if any issues arise.

Color 1: Alice Blue
Color 2: White
Color 3: Alice Blue
Number of Cages:
Print

Version 1.0

- Separate Tool for Investigators
- Allows Them to Print at Their Desk
- Helps Ensure Compliance
- Optional Component
- Pull-down Driven
- Allows For Color Printing
- May Offset Some Costs to PI

PROTOCOL MANAGEMENT



Animal Bioware™ SII PC - [IACUC - Animal Bioware™ SII PC ©1999-2004]

Address Navigator: GO Assistant Logout

ANIMAL BIOWARE™ SERIES II

ADMINISTRATION ANIMAL HEALTH ANIMAL ORDER BILLING BREEDING CENSUS FACILITY HUSBANDRY IACUC INVENTORY TECHNICAL SERVICES

Minutes Agendas Annual Reviews Protocols

Active Protocols Agendas Meeting Minutes Annual Reviews

Filter By Protocol

Filter By Investigator:

Filter By Status

Filter By Last Action

Reset Filter Filter

Advanced Filtering

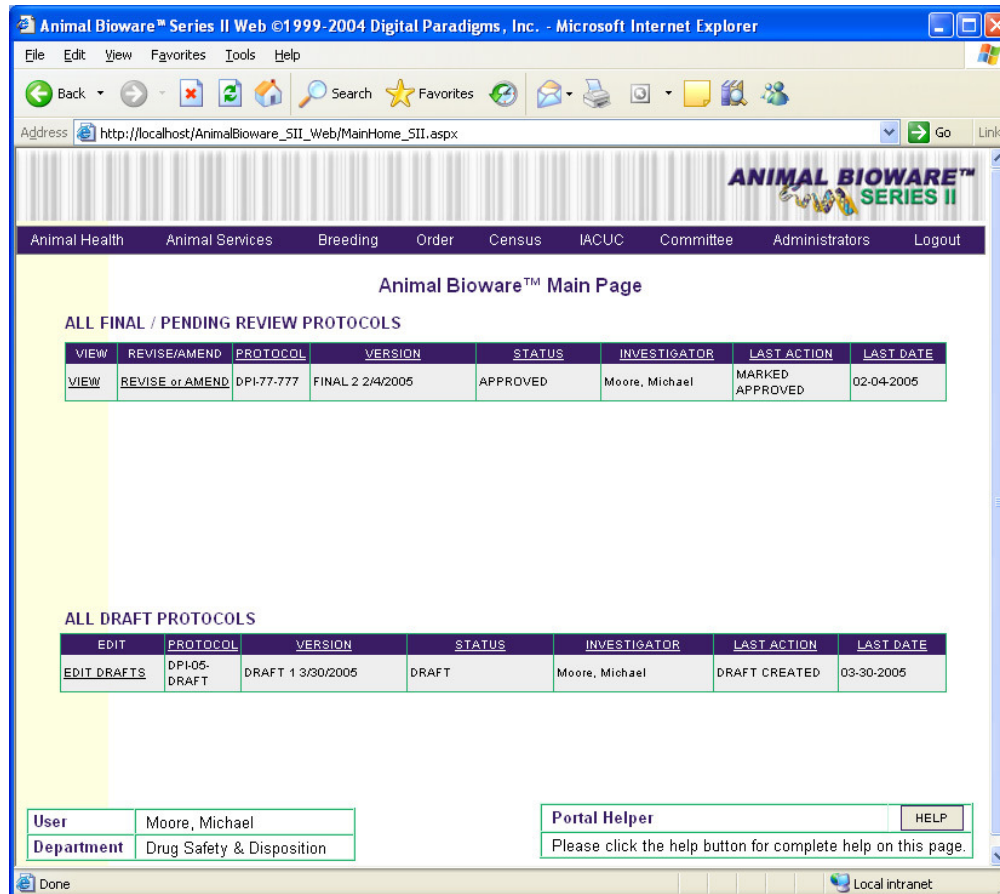
Export to Excel

Protocol	Version	Investigator	Status	Last Action
DPI-77-779	ORIGINAL 1 04-26-2004	Flint, Teresa	UPDATED BY REVISION	ROLLED INTO REVISION
DPI-77-778	FINAL 4 11/22/2004	Flint, Teresa	APPROVED	MARKED APPROVED
DPI-77-777	FINAL 2 2/4/2005	Moore, Michael	APPROVED	MARKED APPROVED
DPI-05-DRAFT	DRAFT 1 2/16/2005	Jiau, Elda	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 1/12/2005	Rauh, Betsy	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 1/19/2005	Shadwick, Shayne	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 1/19/2005	Shadwick, Shayne	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 1/21/2005	Soros, Nancee	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 1/25/2005	Speidel, Roselee	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 2/2/2005	Alamia, Christena	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/5/2005	Nyman, Laurette	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/5/2005	Turnow, Catheryn	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/6/2005	Lewi, Viola	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/6/2005	Tuesburg, Floyd	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/7/2005	Soros, Nancee	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/7/2005	Soros, Nancee	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/13/2005	Lott, Kenisha	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/13/2005	Lott, Kenisha	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/13/2005	Lott, Kenisha	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 3/29/2005	Mccollester, Steve	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 3/29/2005	Flint, Teresa	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 3/30/2005	Moore, Michael	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/4/2005	Lott, Kenisha	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/4/2005	Molyneux, Jamel	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 11/12/2004	Mizuno, Carol	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 1/4/2005	Turnow, Catheryn	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 1/12/2005	Nyman, Laurette	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 1/12/2005	Balderson, Aracely	DRAFT	DRAFT CREATED
DPI-05-DRAFT	DRAFT 1 4/13/2005	Speidel, Roselee	PENDING REVIEW	ORIGINAL SUBMITTED

User ID: mimore Station ID: DP_MOBILE Animal Bioware™ SII PC Copyright ©1999-2004 Digital Paradigms, Inc.
 User Level: 999 NT Login ID: M.Moore Application Version: 1.93 Form Version: 1.95 Last Updated: 04-05-2005 MGLUID Location: IACUC

- Web Based / PC Based
- Amendments
- Drafts / Revisions
- Manage Agenda
- Manage Committee Meeting Minutes
- Manage Annual Renewals

ONLINE PROTOCOL CREATION



Animal Bioware™ Series II Web ©1999-2004 Digital Paradigms, Inc. - Microsoft Internet Explorer

Address: http://localhost/AnimalBioware_SII_Web/MainHome_SII.aspx

Animal Health | Animal Services | Breeding | Order | Census | IACUC | Committee | Administrators | Logout

Animal Bioware™ Main Page

ALL FINAL / PENDING REVIEW PROTOCOLS

VIEW	REVISE/AMEND	PROTOCOL	VERSION	STATUS	INVESTIGATOR	LAST ACTION	LAST DATE
VIEW	REVISE or AMEND	DPI-77-777	FINAL 2 2/4/2005	APPROVED	Moore, Michael	MARKED APPROVED	02-04-2005

ALL DRAFT PROTOCOLS

EDIT	PROTOCOL	VERSION	STATUS	INVESTIGATOR	LAST ACTION	LAST DATE
EDIT DRAFTS	DPI-05-DRAFT	DRAFT 1 3/30/2005	DRAFT	Moore, Michael	DRAFT CREATED	03-30-2005

User: Moore, Michael
Department: Drug Safety & Disposition

Portal Helper: [HELP](#)
Please click the help button for complete help on this page.

Done Local intranet

- Drop Down Driven
 - Procedures
 - Pain Categories
 - Biohazards
 - Procedures Requiring Justification
 - Animals To Be Used
 - Staff Selection
- Wizard Guided
- Automatic Integration

ONLINE PROTOCOL WIZARD

File Edit View Favorites Tools Help

Address http://localhost/AnimalBioware_SII_Web/IACUC/Wizards/ProtocolWizard_010_SII.aspx

Protocol Wizard - Principal Investigator

Animal Health Animal Services Breeding Order Census IACUC Committee Administrators Logout

PROTOCOL 05-DRAFT CURRENT VERSION DRAFT 1 4/18/2005

Principal Investigator
Please select the Principal Investigator from the list. If an investigator choice has already been filled, please verify it, and then Click **Next**.

Investigator:
Moore, Michael

<< Previous Next >>

User Moore, Michael
Department Drug Safety & Disposition

Portal Helper
When finished, please click the Next button; use the menu on the left to navigate.

Done Local intranet

- Self Guided
- Intuitive
- Allows for Draft Saving
- Same Process for Amendments
- Same Process for Revisions

ONLINE PROTOCOL STATUS

Protocol Review - Review Actions

Animal Health Animal Services Breeding Order Census IACUC Committee Administrators Logout

PROTOCOL **05-019** CURRENT VERSION **ORIGINAL 1 4/18/2005**

Review Periods

REVIEW PERIODS COMPLETE	REVIEWED BY	DATE REVIEWED	CURRENT REVIEW PERIOD	REVIEWER
			PAIN CATEGORY CHECK	Flint, Tereasa

IACUC Committee Review Periods:

```

    graph LR
      A[PAIN CATEGORY CHECK] --> B[PLACE ON AGENDA]
      A --> C[VETERINARIAN REVIEWS]
      subgraph "CURRENT REVIEW PERIOD"
        A
      end
      subgraph "NEXT REVIEW PERIOD"
        B
        C
      end
  
```

User: Moore, Michael
Department: Drug Safety & Disposition

VIEW ONLY COPY AS DRAFT EMAIL ME Next >>

- Committee Review Dates
- Pain Category Assessment
- Revisions
- Overall Status
- Copy into New Protocol

Protocol Review - Versions

Animal Health Animal Services Breeding Order Census IACUC Committee Administrators Logout

PROTOCOL **DPI-77-777** CURRENT VERSION **FINAL 2 2/4/2005**

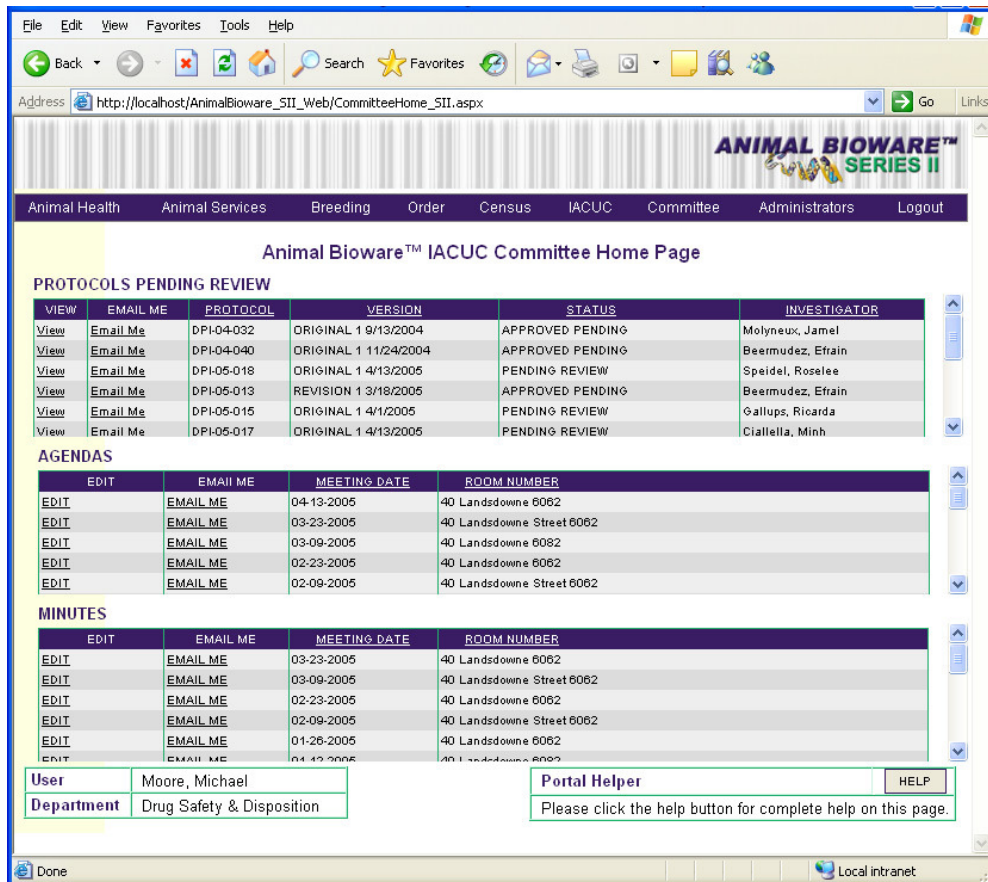
VIEW VERSION	PROTOCOL	VERSION	STATUS	INVESTIGATOR	LAST ACTION DATE
VIEW	DP-77-777	FINAL 2 2/4/2005	APPROVED	Moore, Michael	02-04-2005
VIEW	DP-77-777	REVISION 1 2/4/2005	APPROVED INTO FINAL	Moore, Michael	02-04-2005
VIEW	DP-77-777	ORIGINAL 1 2/4/2005	APPROVED INTO FINAL	Moore, Michael	02-04-2005
VIEW	DP-77-777	AMENDMENT 1 2/4/2005	APPROVED INTO FINAL	Moore, Michael	02-04-2005
VIEW	DP-77-777	FINAL 1 2/4/2005	APPROVED INTO FINAL	Moore, Michael	02-04-2005

User: Moore, Michael
Department: Drug Safety & Disposition

VIEW ONLY Portal Helper
When finished, please click the Next button; use the menu on the left to navigate.

COMMITTEE FUNCTIONS

- Protocols In Review
- Committee Agendas
- Committee Minutes
- Approvals Area
- Turn around Time Requests



The screenshot shows a web browser window displaying the 'Animal Bioware™ IACUC Committee Home Page'. The browser's address bar shows the URL: `http://localhost/AnimalBioware_SII_Web/CommitteeHome_SII.aspx`. The page features a navigation menu with items like 'Animal Health', 'Animal Services', 'Breeding', 'Order', 'Census', 'IACUC', 'Committee', 'Administrators', and 'Logout'. The main content area is titled 'Animal Bioware™ IACUC Committee Home Page' and contains three main sections: 'PROTOCOLS PENDING REVIEW', 'AGENDAS', and 'MINUTES'. Each section contains a table with columns for 'VIEW', 'EMAIL ME', 'PROTOCOL', 'VERSION', 'STATUS', and 'INVESTIGATOR' (for protocols), or 'EDIT', 'EMAIL ME', 'MEETING DATE', and 'ROOM NUMBER' (for agendas and minutes). At the bottom, there are input fields for 'User' (Moore, Michael) and 'Department' (Drug Safety & Disposition), along with a 'Portal Helper' button and a help message: 'Please click the help button for complete help on this page.'

VIEW	EMAIL ME	PROTOCOL	VERSION	STATUS	INVESTIGATOR
View	Email Me	DPI-04-032	ORIGINAL 1 9/13/2004	APPROVED PENDING	Molyneux, Jamel
View	Email Me	DPI-04-040	ORIGINAL 1 11/24/2004	APPROVED PENDING	Beermudez, Efrain
View	Email Me	DPI-05-018	ORIGINAL 1 4/13/2005	PENDING REVIEW	Speidel, Roselee
View	Email Me	DPI-05-013	REVISION 1 3/18/2005	APPROVED PENDING	Beermudez, Efrain
View	Email Me	DPI-05-015	ORIGINAL 1 4/1/2005	PENDING REVIEW	Gallups, Ricarda
View	Email Me	DPI-05-017	ORIGINAL 1 4/13/2005	PENDING REVIEW	Ciallalla, Minh

EDIT	EMAIL ME	MEETING DATE	ROOM NUMBER
EDIT	EMAIL ME	04-13-2005	40 Landsdowne 6062
EDIT	EMAIL ME	03-23-2005	40 Landsdowne Street 6062
EDIT	EMAIL ME	03-09-2005	40 Landsdowne 6062
EDIT	EMAIL ME	02-23-2005	40 Landsdowne 6062
EDIT	EMAIL ME	02-09-2005	40 Landsdowne Street 6062

EDIT	EMAIL ME	MEETING DATE	ROOM NUMBER
EDIT	EMAIL ME	03-23-2005	40 Landsdowne 6062
EDIT	EMAIL ME	03-09-2005	40 Landsdowne Street 6062
EDIT	EMAIL ME	02-23-2005	40 Landsdowne 6062
EDIT	EMAIL ME	02-09-2005	40 Landsdowne Street 6062
EDIT	EMAIL ME	01-26-2005	40 Landsdowne 6062
EDIT	EMAIL ME	04-13-2005	40 Landsdowne 6062

User: Portal Helper:

Department: Please click the help button for complete help on this page.

PC PROTOCOL MANAGEMENT

IACUC.PROTOCOLS.MAINTAIN - Animal Bioware™ SII PC ©1999-2004

Home Close IACUC.PROTOCOLS.MAINTAIN

SPELL CHECK: Alt. Animals / Duplication Research Staff List Rsrch Team / Training Exceptions / Comments Periods / Next Actions Versions

PRINT General Info. Projects / Dates Rationale Justification Animals Procedures A-D Procedures E-G Procedures H Pain Categories / Alt. Pain / Lt Search

DOCUMENT ID: 004545 PROTOCOL: **DPL-05-018** VERSION: **ORIGINAL 1 4/13/2005**

INVESTIGATOR: Speldel, Roselee

HOUSING FACILITY: 72

ANNUAL REVIEW DATE: 4/13/2005 3:30:00 PM

DEPARTMENT: Inflan - NFkB

PROCEDURE FACILITY: 72

THREE YEAR DUE DATE:

ETHANASIA FACILITY: 72

DAYS TO 1YR: 355 DAYS TO 3YR: 1,085

STATUS: PENDING REVIEW

Protocol Title: Validation of therapeutic targets and efficacy studies for arthritis

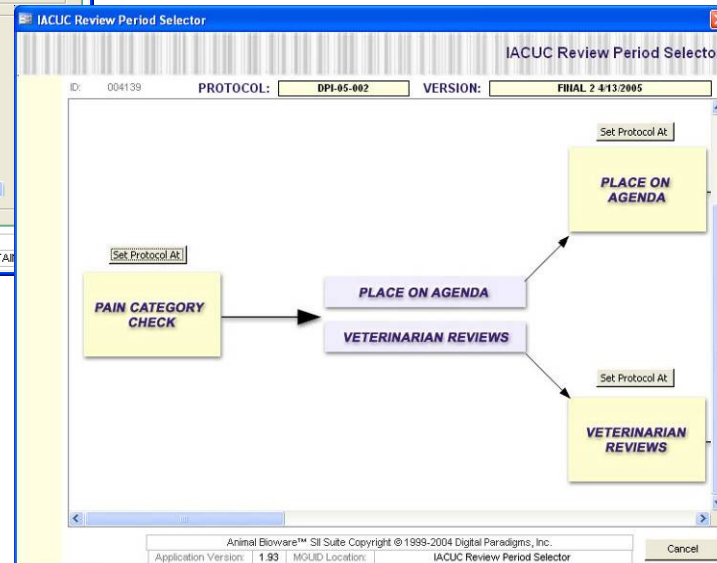
Current Review Period:

PAIN CATEGORY CHECK → PLACE ON AGENDA

VETERINARIAN REVIEWS

Animal Bioware™ SII Suite Copyright © 1999-2004 Digital Paradigms, Inc.
 Application Version: 1.93 Form Version: Last Updated: 12-30-1899 MGLUID Location: IACUC PROTOCOLS.MAINTAIN

- Allows IACUC Manager Full Control
- Decide Which Period to Place
- Record Protocol Milestone Dates
- Allows Unlimited Versions
- Allows Any Number of Approvers / Reviewers



COMPLIANT PROTOCOL DOCUMENT

- Print Compliant Documents
- Print any Version / Revision
- Allows for Digital Signature
- Includes Amendment Differences
- Includes Turn Around Times

<p>INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC) Animal Research Protocol Validation of therapeutic targets and efficacy studies for arthritis</p> <p>Protocol Title: Validation of therapeutic targets and efficacy studies for arthritis</p> <p>Protocol Number: 094-05-018 ORIGINAL 1 412206 Original Submission Date: 4/12/06 Review Date: Final Approval Date: Amendment Revision Date:</p> <p>General Information: Investigator: S. Sakai, R. Korte Title: Sr. Scientist Department: Health, MHS Location: 365 Room: 3020 Phone: 857.851.4993 Email: rskorte@bioware.com Emergency Phone: same as emergency number</p> <p>Project Information: PROJECT: NAME: 11655-07 COST CENTER: 11655-00 CSP-IR USE: 11241-38 NSF Grant: 12955-38 PCRNDA:</p> <p>Study Location Information: Animals will be housed at: 72 Animals procedures will be conducted at: 72 Animals will be euthanized at: 72</p> <p>Species: SPICES: Mice Mice</p>	<p>ANIMAL BIOWARE™ SERIES II Revision 1.00 / 128205</p> <p>INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC) Animal Research Protocol Validation of therapeutic targets and efficacy studies for arthritis</p> <p>Protocol Number: 094-05-018 ORIGINAL 1 412206 Original Submission Date: 4/12/06 Review Date: Final Approval Date: Amendment Revision Date:</p> <p>General Information: Investigator: S. Sakai, R. Korte Title: Sr. Scientist Department: Health, MHS Location: 365 Room: 3020 Phone: 857.851.4993 Email: rskorte@bioware.com Emergency Phone: same as emergency number</p> <p>Project Information: PROJECT: NAME: 11655-07 COST CENTER: 11655-00 CSP-IR USE: 11241-38 NSF Grant: 12955-38 PCRNDA:</p> <p>Study Location Information: Animals will be housed at: 72 Animals procedures will be conducted at: 72 Animals will be euthanized at: 72</p> <p>Species: SPICES: Mice Mice</p>	<p>ANIMAL BIOWARE™ SERIES II Revision 1.00 / 128205</p> <p>I. Rationale and Benefits to Society</p> <p>Rheumatoid arthritis (RA) affects about 1% of the world's population. It has a higher incidence among women, compared to men and predominantly affects them and increases in their 20s-40s although no age is immune. Although the precise site of pathology in RA is the joint, RA is in fact a systemic disease that can affect many organs and tissues including the heart, blood vessels, lung, head and muscles. The disease is extremely debilitating and there is currently no cure.</p> <p>The objective of this research is to identify new molecular targets for therapeutic intervention in order to develop new drugs to manage the disease. While a cure would represent the ultimate achievement, there is currently a great unmet medical need for drugs which slow or halt progression of the disease from the time of diagnosis without serious adverse side-effects.</p> <p>In these studies we will evaluate use of 3 distinct mouse models of human RA: collagen-induced arthritis (CIA), antibody-induced arthritis (AIA) and methylated Bovine Serum Albumin(mBSA)-induced arthritis to test the potential therapeutic utility of blocking function of molecules from 2 independent molecular platforms: receptors and kinases.</p> <p>II. Justification</p> <p>General overview: We will test lead compounds for the following programs. We propose to test these lead compounds in three murine models of rheumatoid arthritis: collagen-induced arthritis (CIA), methylated bovine serum albumin (mBSA)-induced arthritis and antibody-induced arthritis (AIA). The three different murine RA models proposed represent distinct aspects of human RA disease progression, such as the key cell types involved in disease onset, length and severity of disease symptoms, and the degree of inflammation, cartilage and bone resorption. We will implement clinical scores, histologic methods and imaging modalities in our studies for all three models to compare and contrast the usefulness of these models for particular programs.</p> <p>B: Animal Information (Species, strain, and other parameters to be used on this protocol)</p> <table border="1"> <tr> <td>SPECIES:</td> <td>STRAIN:</td> <td>A: ANIMALS:</td> <td>V: VENDOR TYPE:</td> </tr> <tr> <td>Mouse</td> <td>C57BL/6J</td> <td>140</td> <td>Envigo</td> </tr> <tr> <td>Gender:</td> <td>AGE:</td> <td>WEIGHT:</td> <td>END OF STUDY (Time Point From Housing):</td> </tr> <tr> <td>Female</td> <td>12-14 wks</td> <td>18-22g</td> <td>40 Days</td> </tr> </table> <table border="1"> <tr> <td>SPECIES:</td> <td>STRAIN:</td> <td>A: ANIMALS:</td> <td>V: VENDOR TYPE:</td> </tr> <tr> <td>Mouse</td> <td>DBA/1J</td> <td>20</td> <td>Envigo</td> </tr> <tr> <td>Gender:</td> <td>AGE:</td> <td>WEIGHT:</td> <td>END OF STUDY (Time Point From Housing):</td> </tr> <tr> <td>Female</td> <td>12-14 weeks</td> <td>18-22g</td> <td>40 Days</td> </tr> </table> <table border="1"> <tr> <td>SPECIES:</td> <td>STRAIN:</td> <td>A: ANIMALS:</td> <td>V: VENDOR TYPE:</td> </tr> <tr> <td>Mouse</td> <td>C57BL/6J</td> <td>20</td> <td>Envigo</td> </tr> <tr> <td>Gender:</td> <td>AGE:</td> <td>WEIGHT:</td> <td>END OF STUDY (Time Point From Housing):</td> </tr> <tr> <td>Female</td> <td>12-14weeks</td> <td>18-22g</td> <td>30 Days</td> </tr> </table>	SPECIES:	STRAIN:	A: ANIMALS:	V: VENDOR TYPE:	Mouse	C57BL/6J	140	Envigo	Gender:	AGE:	WEIGHT:	END OF STUDY (Time Point From Housing):	Female	12-14 wks	18-22g	40 Days	SPECIES:	STRAIN:	A: ANIMALS:	V: VENDOR TYPE:	Mouse	DBA/1J	20	Envigo	Gender:	AGE:	WEIGHT:	END OF STUDY (Time Point From Housing):	Female	12-14 weeks	18-22g	40 Days	SPECIES:	STRAIN:	A: ANIMALS:	V: VENDOR TYPE:	Mouse	C57BL/6J	20	Envigo	Gender:	AGE:	WEIGHT:	END OF STUDY (Time Point From Housing):	Female	12-14weeks	18-22g	30 Days	<p>ANIMAL BIOWARE™ SERIES II Revision 1.00 / 128205</p> <p>III. Procedural Information</p> <p>A. Animal Procedures to be performed</p> <p>Procedure: Blood Collection Quality of Disease Model Arthritis/Imaging</p> <p>B. Special Husbandry Requirements</p> <p>- NONE -</p> <p>C. Exceptions to standard practices with scientific justification</p> <p>- NONE -</p>	<p>ANIMAL BIOWARE™ SERIES II Revision 1.00 / 128205</p> <p>D. Protocol descriptions from multiple animal substrates</p> <p>Model I: Collagen-Induced Arthritis (CIA)</p> <p>Arthritis is induced in DBA/1J mice by intraperitoneal with 100µg of bovine type-II collagen (Chondrex, Seattle WA) emulsified with Freund's complete adjuvant (CFA). 100% of the emulsified collagen is injected i.d. 1cm from the base of the tail using a 25g needle.</p> <p>The primary immune reaction is common to all of the experimental procedures that will be employed in this protocol. Subsequent manipulations that may be employed are listed below. The purpose of the variations in the experimental protocol is to optimize the severity of swelling in the hind and fore paws to shorten the overall time course of disease and thus limit any pain and suffering and to increase the consistency of disease severity to limit the number of mice per experimental group that are required to achieve statistical significance.</p> <p>E. Anesthesia/Analgesia</p> <table border="1"> <tr> <th>SPECIES</th> <th>DOSE</th> <th>DRUG</th> <th>ROUTE CODE</th> <th>ROUTE DESC</th> <th>SCHEDULE</th> </tr> <tr> <td>Mouse</td> <td>0</td> <td>None</td> <td>IM</td> <td>Injection</td> <td>Day 0, 21, 26, 36, 42, 46, 54</td> </tr> <tr> <td>Mouse</td> <td>0</td> <td>None</td> <td>IM</td> <td>Injection</td> <td>Day 0, 1, 7, 9 and 12</td> </tr> <tr> <td>Mouse</td> <td>0</td> <td>None</td> <td>IM</td> <td>Injection</td> <td>Day 0, 21, 24 and 25</td> </tr> </table> <p>F. Pain and Distress and Monitoring Parameters</p> <p>Induction of arthritis results in joint swelling, stiffness and in the CIA model, arthralgic joints. Clinical scoring is performed daily upon initiation of symptoms, i.e., day 26 for the CIA and days 5 for the AIA and days 21 through 26 for the mBSA model.</p> <p>Animals will be monitored for health daily (including weekends and holidays) by a member of the team or by a member of the Composite facility staff.</p> <p>On occasion, animals develop tail wounds from the CFA injection, which can ulcerate. Any animals with severe wounds will be removed from the study and euthanized. Our experience is that this is a rare occurrence.</p> <p>For animals receiving LPS, our observations indicate that animals can appear distressed within the first 48hrs following LPS administration. Animals will be monitored closely during this period; gel packs will be made available on the cage floor and if warranted, animal cages will be warmed using either a heat lamp (for short period with constant monitoring) or a water-circulating heat pad.</p> <p>G. Approved Veterinary Treatments</p> <p>- NONE -</p> <p>H. Euthanasia/Post Disposition</p> <p>AT the end of study all mice are euthanized by asphyxiation with CO2.</p> <p>IV. Pain Categories</p> <p>A. Pain Categories</p>	SPECIES	DOSE	DRUG	ROUTE CODE	ROUTE DESC	SCHEDULE	Mouse	0	None	IM	Injection	Day 0, 21, 26, 36, 42, 46, 54	Mouse	0	None	IM	Injection	Day 0, 1, 7, 9 and 12	Mouse	0	None	IM	Injection	Day 0, 21, 24 and 25
SPECIES:	STRAIN:	A: ANIMALS:	V: VENDOR TYPE:																																																																									
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Mouse	0	None	IM	Injection	Day 0, 1, 7, 9 and 12																																																																							
Mouse	0	None	IM	Injection	Day 0, 21, 24 and 25																																																																							

AGENDA / MINUTES

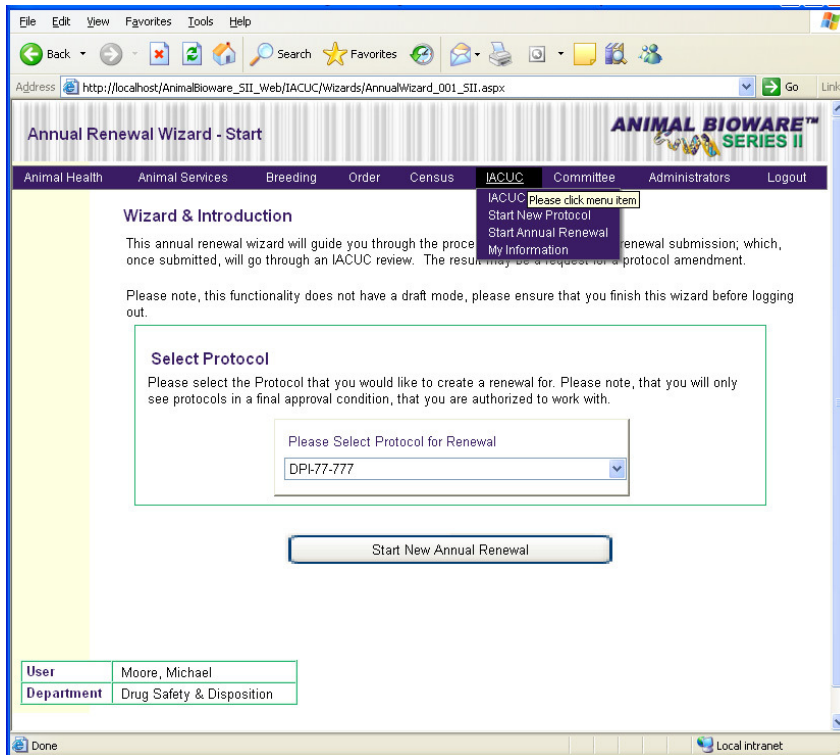
- Automatically Prepare Agenda
- Available to Committee Online
- Automatically Email
- Connects to Protocol Approvals

IACUC COMMITTEE		ANIMAL BIOWARE™ SERIES II		Revision: 1.51 / 8-14-2004
IACUC MEETING MINUTES				
16-Jun-04 40 Landsdowne 6th Floor				
I. Attendance				
Voting Members Present: _____				
Mike Moore				
Voting Members Absent: _____				
Dereck Ryan				
Guests: _____				
Molly Seavey - Summer Intern vet student in Joan Lane's group				
II. Review of Minutes				
III. Protocol / Amendment Review				
PROTOCOL:	VERSION:	INVESTIGATOR:	TITLE:	
DP104-023	REVISION 1 6/9/2004	Eglin, Marilee	Sr Scientist I	
Review Minutes:				
04-023	Lisa Schopf			
1st Reviewer: Michele Vieira DiSandro				
2nd Reviewer: Juliet Williams				
Approved Pending the Satisfactory Response to the Following Questions:				
The committee would like you to clarify why you will need 8 additional rats for IUI PK data for only two experimental groups. Please clarify why this will be done for only two of the drugs and not all of them.				
IV. Attending Veterinarian Update				
V. Old Committee Business				
A. Approval of Minutes from 5/28/04				
The current process for documenting and reviewing minutes needs to be looked at. This will be put onto the agenda for the next meeting to discuss ways to make it more efficient and effective.				
Lisa noted that for July 14th meeting she would like the committee to revisit 2004 Goals. What is working, what is not etc.				
B. Animal Welfare Concerns				
03-031 Sally Smith				
All of original irradiated mice of Jean-Luc's have been euthanized. There were 120 new mice that were irradiated recently and injected with bone marrow from previous group that was just euthanized.				

IACUC COMMITTEE		ANIMAL BIOWARE™ SERIES II		Revision: 1.51 / 8-14-2004
IACUC AGENDA				
14-Apr-04 40 Landsdowne 2070				
I. Review of Minutes				
II. Protocol / Amendment Review				
PROTOCOL:	VERSION:	INVESTIGATOR:	TITLE:	
DP104-016	FINAL 3 2/15/2005	Sorens, Nanosie	Scientist II	
PROTOCOL:	VERSION:	INVESTIGATOR:	TITLE:	
DP104-017	FINAL 6 2/15/2005	Langlotz, Patsy	Scientist II	
Reviewer:	Title:			
Steinberg, Lady	No Title			
III. Attending Veterinarian Update				
IV. Old Committee Business				
Animal Welfare Concerns		Whitman, Terri		
Semi-Annual Facility Inspection Results		Flint, Tereasa		
Follow up on Semi-Annual Facility Inspection Report and Corrections.				
Semi-Annual Program Review		Flint, Tereasa		
Real Program Review Sign off		Whitman, Terri		
Facility Issues		Whitman, Terri		
V. New Committee Business				
Facility Issues		Whitman, Terri		
PRIMAR Conference Update		Sorens, Nanosie		
Julist will present a brief overview of PRIMAR meeting.				
Animal Welfare Concerns		Whitman, Terri		
VI. Policy Review				
Policy on Protocol Review Process		Flint, Tereasa		
Please review this policy for discussion at meeting.				

ANNUAL RENEWALS - Online

- Quick 3 Step Renewal Process
- Available to All PI's Online
- Quickly Updates Protocol System



Annual Renewal Wizard - Start

Animal Health Animal Services Breeding Order Census IACUC Committee Administrators Logout

Wizard & Introduction

This annual renewal wizard will guide you through the process of creating a new protocol renewal submission; which, once submitted, will go through an IACUC review. The results may be a request for a protocol amendment.

Please note, this functionality does not have a draft mode, please ensure that you finish this wizard before logging out.

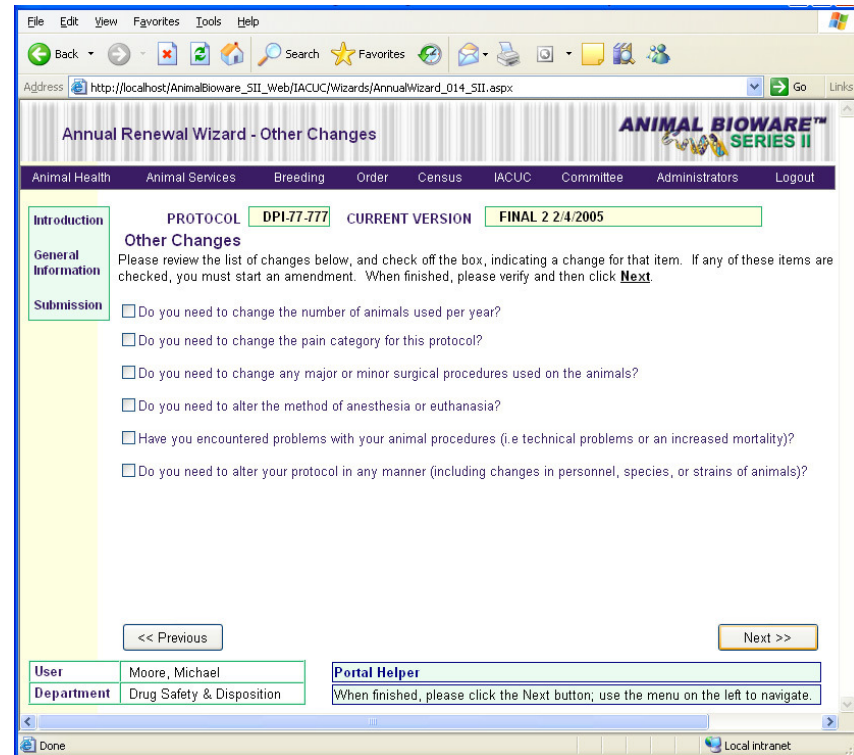
Select Protocol

Please select the Protocol that you would like to create a renewal for. Please note, that you will only see protocols in a final approval condition, that you are authorized to work with.

Please Select Protocol for Renewal
DPI-77-777

Start New Annual Renewal

User	Moore, Michael
Department	Drug Safety & Disposition



Annual Renewal Wizard - Other Changes

Animal Health Animal Services Breeding Order Census IACUC Committee Administrators Logout

PROTOCOL: DPI-77-777 CURRENT VERSION: FINAL 2 2/4/2005

Other Changes

Please review the list of changes below, and check off the box, indicating a change for that item. If any of these items are checked, you must start an amendment. When finished, please verify and then click **Next**.

Submission

Do you need to change the number of animals used per year?

Do you need to change the pain category for this protocol?

Do you need to change any major or minor surgical procedures used on the animals?

Do you need to alter the method of anesthesia or euthanasia?

Have you encountered problems with your animal procedures (i.e technical problems or an increased mortality)?

Do you need to alter your protocol in any manner (including changes in personnel, species, or strains of animals)?

<< Previous Next >>

User	Moore, Michael	Portal Helper
Department	Drug Safety & Disposition	When finished, please click the Next button, use the menu on the left to navigate.

MANAGE TECHNICAL SERVICES

Animal Bioware™ SII PC - [TECHNICAL SERVICES - Animal Bioware™ SII PC ©1999-2004]

File Edit Close Help Type a question for help

Address Navigator GO Assistant Logout

ANIMAL BIOWARE™ SERIES II

ADMINISTRATION ANIMAL HEALTH ANIMAL ORDER BILLING BREEDING CENSUS FACILITY HUSBANDRY IACUC INVENTORY TECHNICAL SERVICES

Reports Requests

Technical Services Requests

Filter By Request Number: Double Click to Maintain Selected Request

NUMBER	REQUESTOR	PROTOCOL	DEPT	STUDY TYPE	STATUS
TS-04-00078	Moore, Michael	DP-77-777	Safety Pharmacology, Efficacy		SUBMITTED
TS-04-DRAFT	Vara, Tona	DP-02-026	Oncology	Repeat Dose	DRAFT
TS-05-DRAFT	Houben, Tressie	DP-01-043	DMPK	Discrete	DRAFT
TS-05-DRAFT	Moore, Michael	DP-77-777	Necropsy Services	Efficacy	DRAFT
TS-05-000261	Moore, Michael	DP-01-043	DMPK	Cassette	APPROVED
TS-04-000681	Moore, Michael		Imaging Sciences	Cassette	SUBMITTED
TS-04-000085	Lacouette, Kam	DP-77-777	Inflammation	Other	APPROVED
TS-05-DRAFT	Vara, Tona				DRAFT

Filter By Protocol Filter By Requestor Filter By Status Filter By Department Filter By Study Type

Add Request Edit Request Delete Request

Export to Excel

User ID: mimoore Station ID: DP_MOBILE Application Version: 1.93 Form Version: 1.95d Last Updated: 04-14-2005 MOUD Location: TECHNICAL SERVICES
 User Level: 999 NT Login ID: MJMoore

- Web Wizard for PI's & Staff
- Allows for Requests by Type:
 - Necropsy
 - Blood Collection
 - Pathology
 - Dosing Requests
 - Others
- Specific Form / Detail for Each Type

TECHNICAL SERVICES.REQUESTS.EDIT - Animal Bioware™ SII PC ©1999-2004

Home Close TECHNICAL SERVICES.REQUESTS.EDIT

SEARCH PRINT REQUEST EDIT REQUEST PRINT PROTOCOL

General Info: Specific Request Info.

Select Request Details, by using Navigator:

Species: Frog Strain: Karyover Levels Facility: Room: Rack: SUBJECT

Number Animals: Gender: Age: 6 [days] 1 [days]

Circumound: None

Route of Administration: Type: Intraperitoneal Intravenous Terminal BW: Yes

Tissues to Collect: None

Tissues to Weigh: None

Submit Tissues To: None

Handling / Preservation: None

Record: 1 of 1

Animal Bioware™ SII Suite Copyright © 1999-2004 Digital Paradigms, Inc.
 Application Version: 1.93 Form Version: Last Updated: 12-26-1999 MOUD Location: TECHNICAL SERVICES.REQUESTS.EDIT

MOBILE BASED INVENTORY

- Control Inventory in any Room/Facility
- Create Build To' Levels
- Receive Inventory
- Help Feed Cost Accounting Systems
- Automatically Create Vendor Orders
- Allows Multiple Barcode Entry Points
 - UOM by Box Unit
 - UOM by Carton Unit

Inventory Record

QTY: 4

UOM: ▼ Box(es)

Barcode:

Room: ▼ 40-Special Procedure ro

Our Desc: 200 Graduated Cylinders

Ven Desc: 200 Graduated Cylinders

Part #: 24776-100

UOM Desc:

Inventory Package Lookup

1) Filter By Description

2) Select Item

100 Graduated Cylinders	24776-086
14 Cu. Ft. Cube Truck Tras	60279LU
200 Graduated Cylinders	24776-100
20GI Round Brute Contain	58197lu
20GI Round Brute Contain	58187lu

Inventory

Select or Scan Room

▼ 40-Special Procedure room

Scan Barcode of Item

9789884270614

Add Inventory Package - PG1

Our Desc: Gloves Large

UOM: ▼ Box(es)

UOM Desc: Box

Vendor: ▼ Lab Safety

Ven Part #: 1334444

Ven Price: 25.00

Add Inventory Package - PG2

Vendor Desc:

Box Purple Large Gloves

Track Type: ▼ PPE Supplies

Comments:

None at this time

EMAIL / REPORT

TECHNICAL SERVICES **ANIMAL BIOWARE™ SERIES II** Revision: 1.2 / 4-14-2004
TS-04-000078

TECHNICAL SERVICES REQUEST	Request Number: TS-04-000078
	Study Number: NA
	Requested By: Moore, Michael

Contact Information:

Requestor Information:	Principal Investigator:
Requestor: Moore, Michael	Investigator: Moore, Michael
Title: Vendor	Title: Vendor
Department: Drug Safety & Disposition	Department: Drug Safety & Disposition
Phone: (617) 444-2329	Phone: (617) 444-2329
Fax:	Fax:
Email: olleven@dpiboston.com	Email: olleven@dpiboston.com

General Information:

Study Type:	Efficacy	Status:	SUBMITTED
Protocol:	DPI-77-777	Date Submitted:	12/21/2004
Request Type:	Safety Pharmacology	Approved by:	Moore, Michael
Project Information:		Approved Date:	
Project ID: 12099-02	Project Stage: Lead Optimization		
Project Name: Mgmt-Pain-Bayer			

Request Details:

Species:	Strain:	Facility:	Room:	Rack:
Guinea Pig	Harley	88-1	45-1 m 3 rat	45-4 m 8 rack 1
Number Animals:	Gender:			
	Male			
Compound:				
None				
Comments:				

- Email Requests to PI
- Print Hardcopy Request
- Specific Report for Each Type

Technical Services Request - Message (Plain Text)

This message has not been sent.

To: Moore, Michael <Michael.Moore@mpi.com>

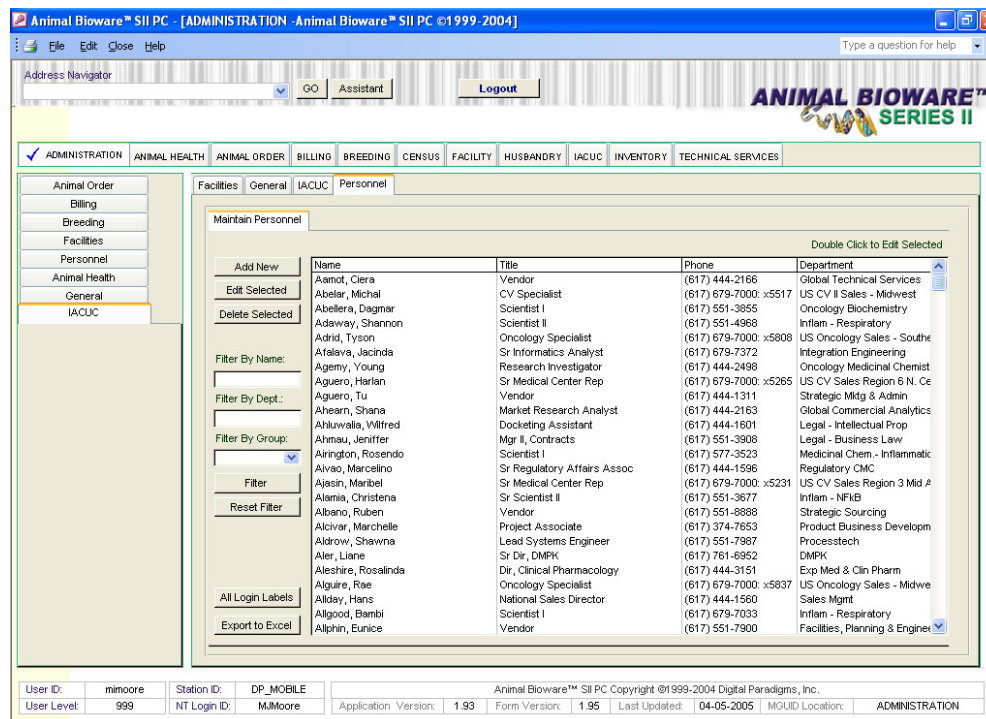
Subject: Technical Services Request

Attach: TECH REQUEST_SII.snp (28 KB) Attachment Options...

Please find attached the Technical Services Request document that was requested. Your request will be scheduled in 5 business days. We will notify you with its progress. Thank You!

Carol Davis
ARG

ADMINISTRATION OF SYSTEM



The screenshot displays the 'Maintain Personnel' window within the Animal Bioware™ SII PC Administration software. The interface includes a menu bar with options like 'File', 'Edit', 'Close', and 'Help'. Below the menu is an 'Address Navigator' and a 'Logout' button. The main navigation pane on the left lists various system modules, with 'IACUC' currently selected. The central area shows a table of personnel records with columns for Name, Title, Phone, and Department. A sidebar on the left of the table provides filtering options by name, department, and group. At the bottom, a status bar displays user information (User ID: mimooore, Station ID: DP_MOBILE) and application details (Application Version: 1.93, Form Version: 1.95, Last Updated: 04-05-2005, MGLUD Location: ADMINISTRATION).

Name	Title	Phone	Department
Aasnot, Ciera	Vendor	(617) 444-2166	Global Technical Services
Abelar, Michal	CV Specialist	(617) 679-7000: x5517	US CV II Sales - Midwest
Abellera, Dagmar	Scientist I	(617) 551-3855	Oncology Biochemistry
Adaway, Shannon	Scientist II	(617) 551-4988	Inflam - Respiratory
Adrid, Tyson	Oncology Specialist	(617) 679-7000: x5808	US Oncology Sales - South
Afalava, Jacinda	Sr Informatics Analyst	(617) 679-7372	Integration Engineering
Agemy, Young	Research Investigator	(617) 444-2498	Oncology Medicinal Chemist
Agüero, Harlan	Sr Medical Center Rep	(617) 679-7000: x5265	US CV Sales Region 6 N. Ce
Aguero, Tu	Vendor	(617) 444-1311	Strategic Mktg & Admin
Ahearn, Shana	Market Research Analyst	(617) 444-2163	Global Commercial Analytics
Ahluwalia, Wilfred	Docketing Assistant	(617) 444-1601	Legal - Intellectual Prop
Ahmad, Jennifer	Mgr II, Contracts	(617) 551-3908	Legal - Business Law
Airington, Rosendo	Scientist I	(617) 577-3523	Medicinal Chem - Inflammatic
Aivao, Marcelino	Sr Regulatory Affairs Assoc	(617) 444-1596	Regulatory CMC
Ajasin, Maribel	Sr Medical Center Rep	(617) 679-7000: x5231	US CV Sales Region 3 Mid A
Alamia, Christina	Sr Scientist II	(617) 551-3677	Inflam - NFkB
Albano, Ruben	Vendor	(617) 551-8888	Strategic Sourcing
Alcivar, Marchelle	Project Associate	(617) 374-7653	Product Business Developm
Aldrow, Shawna	Lead Systems Engineer	(617) 551-7987	Processtech
Aler, Liane	Sr Dir, DMPK	(617) 761-6952	DMPK
Alestine, Rossalinda	Dr, Clinical Pharmacology	(617) 444-3151	Exp Med & Clin Pharm
Alguire, Rise	Oncology Specialist	(617) 679-7000: x5837	US Oncology Sales - Midwe
Allday, Hans	National Sales Director	(617) 444-1560	Sales Mgmt
Allgood, Bambi	Scientist I	(617) 679-7033	Inflam - Respiratory
Allphin, Eunice	Vendor	(617) 551-7900	Facilities, Planning & Engin

- Maintain All Aspects of System
 - Personnel
 - Rooms
 - Facilities
 - Racks
 - Blackout Dates
 - Departments
 - Projects/Grants
 - Companies
 - Vendors
 - Units of Measure
 - Species
 - Strains
- And More

END USER / ADMIN TRAINING



- Onsite Training
- Administrator Training
- Veterinarian Technician
- Husbandry Training
- Breeding Staff Training
- IACUC Training
- Facilities Manager Training
- Order Desk Training
- Online SOP Assistance
- Certification Program Available

Abstract Presented at 55th AALAS

The Use of Bar-coding and PDA Scanners in Managing an Animal Facility

DM Jarrell, DVM, DACLAM*; MJ Moore, MCSE†; BN Beck*; SH Young, LATg, MBA*; Y Sun, LAT*; S Taylor*; L Camera, LAT*; N La Mattina-Smith, ALAT*; SM Niemi, DVM, DACLAM*



Center for Comparative Medicine
Massachusetts General Hospital*

**DIGITAL
PARADIGMS**
Digital Paradigms, Inc.†

- Poster Session 55th AALAS
- Presented Efficiency Gains
- Presented Compliance Gains
- Presented Response Time Reduction
- Co-Presented with Massachusetts General Hospital



IMPROVEMENTS - Billing

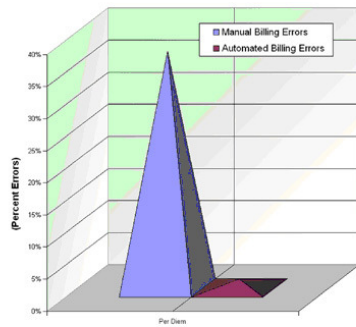


FIGURE 6 – BILLING ACCURACY

This graph represents billing accuracy based on errors in the manual versus automated models.

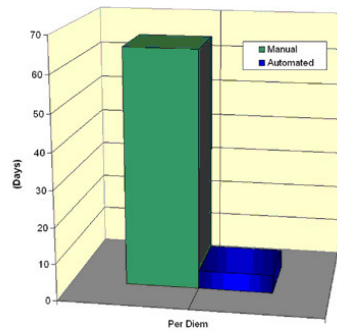


FIGURE 5 – PILOT BILLING TURN AROUND TIME

This graphs represents the time it took to collect and compile billing data in the manual versus automated models.

- Billing Accuracy Dramatically Improved
- Billing Turn Around Dramatically Decreased

Billing Accuracy		
	Manual Billing Errors	Automated Billing Errors
Per Diem	37%	1%

Billing - Turn Around Time (Days)		
	Manual	Automated
Per Diem	65	5

IMPROVEMENTS – Cage Card Compliance

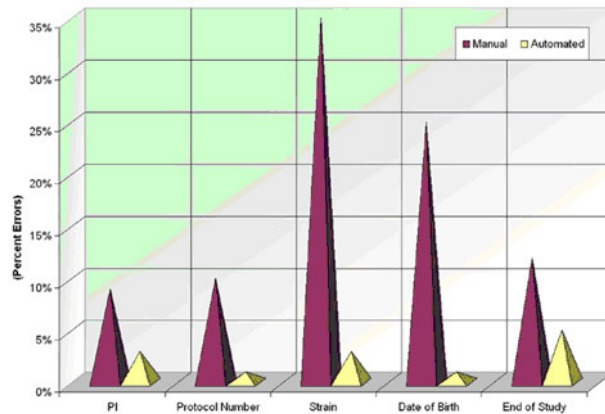


FIGURE 1 – CAGE CARD COMPLIANCE

This graph displays a comparison of errors in the manual versus Census Plus® System (PI Name, Protocol Number, Strain, Date of Birth, and End of Study).

- All areas of Cage Card Compliance Improved
- Cage Cards Kept Up to Date

Cage Card Compliance		
	<i>Manual</i>	<i>Automated</i>
PI	9%	3%
Protocol Number	10%	1%
Strain	35%	3%
Date of Birth	25%	1%
End of Study	12%	5%

IMPROVEMENTS – Census Accuracy

- Automated Census Versus Manual Census
- Accuracy was Dramatically Improved

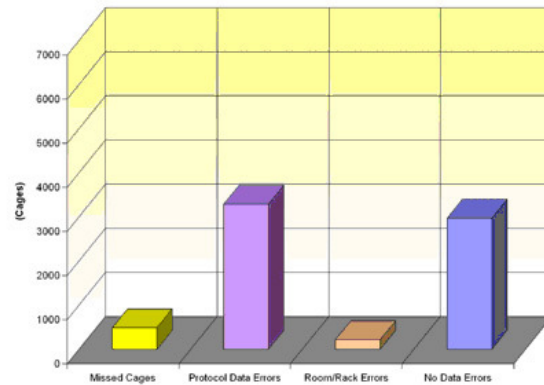


FIGURE 3 – CENSUS ACCURACY MANUAL

This graph represents errors incurred using manual data

Census Accuracy Manual	
Missed Cages	450
Protocol Data Errors	2500
Room/Rack Errors	100
No Data Errors	3950

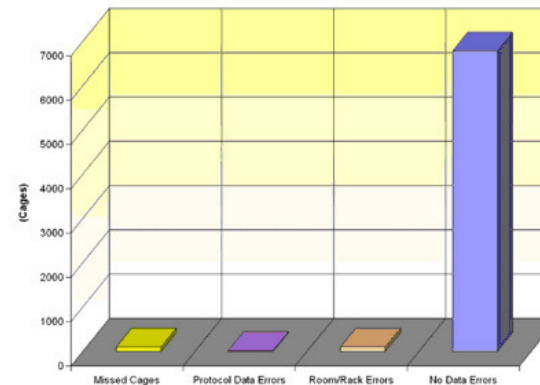


FIGURE 4 – CENSUS ACCURACY AUTOMATED

This graph represents errors incurred using automated data

Census Accuracy Automated	
Missed Cages	100
Protocol Data Errors	10
Room/Rack Errors	100
No Data Errors	6790

IMPROVEMENTS – Census Speed

- Automated Census Versus Manual Census
- Census Speed Quadrupled
- Mistakes Eliminated

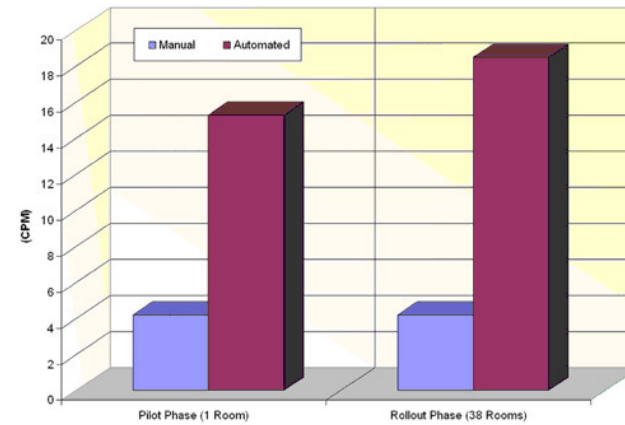


FIGURE 2 – CENSUS SPEED

This graph displays the result of average speed gains for a staff person taking census (Cages Per Minute).

Census Speed Cages Per Minute		
	<i>Pilot Phase (1 Room)</i>	<i>Rollout Phase (38 Rooms)</i>
Manual	4.20	4.20
Automated	15.30	18.50

IMPROVEMENTS – Clinical Response Time

- Automated Emails & Notifications
- Reduced Response Time
- Time to Veterinarian Notification Reduced
- Time to PI Notification Reduced

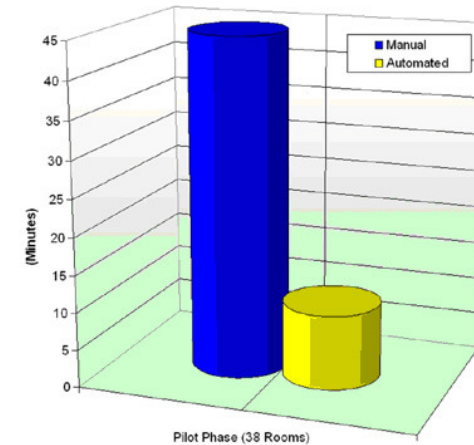


FIGURE 6 – CLINICAL ROUNDS RESPONSE TIME

This graph represents the result of response time, from identification to veterinary intervention, during the pilot phase of the project.

Morbidity Response Time (Minutes)	
	<i>Pilot Phase (38 Rooms)</i>
Manual	45
Automated	10



ANIMAL BIOWARE™
 **SERIES II**

Thank You

**DIGITAL
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<http://www.animalbioware.com>

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Boston, MA 02108
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