The new and improved Researcher Training Program

Animal Research Community June 06, 2019



- Changes to the Researcher Training Policy
- Competency Concept
- MAPS Interface
- Opinions, ideas, and feedback

Major Changes to the "Training Policy"

- "Working with the IACUC" will be required only once, not repeated every three years
- AALAS Learning Library
- Formalize IACUC Member training
- Shift to AALAS Learning Library, away from TMS
 - Standardized training
 - Transfer transcripts to/from other universities
 - Course completion replaces lab-based training document and specific policy review
 - Available in over 100 languages (powered by Google Translator)

LABORATORY-BASED ANIMAL CARE AND USE TRAINING PERSONNEL PROFILE It is necessary for the research team to have the knowledge and expertise for the specific animal procedure proposed and the species used. All lab-based personnel training should be documented and maintained in/by the laboratory Under Document Review, include all IACUC policies that are related to the work this person on the protocol Under Procedures, include all approved procedures that this person will perform on the protoco Date Species Understanding of approved protocol, all relevant modifications, and specia NΔ instructions Review of other applicable policies and related documents – see be NA icv Review: On the IACUC website ch. click on Policie cedures, Guidelines and Instructions and for the prompt to CAS log i and Procedure to Follow for Injuries Associated with Laboratory An 20 - Housing policy: Mouse 40 - Single Housing of Roder ng Colonies of Genetically Modified Anima od Collection - Mic Procedure Species Trained Mouse Breeding Blood Collection (RO w/anesthesia Mouse Anesthesia - inhaled Mouse Survival surgery (orthotopic pancreas injection; procedure monitoring with OARS Mouse

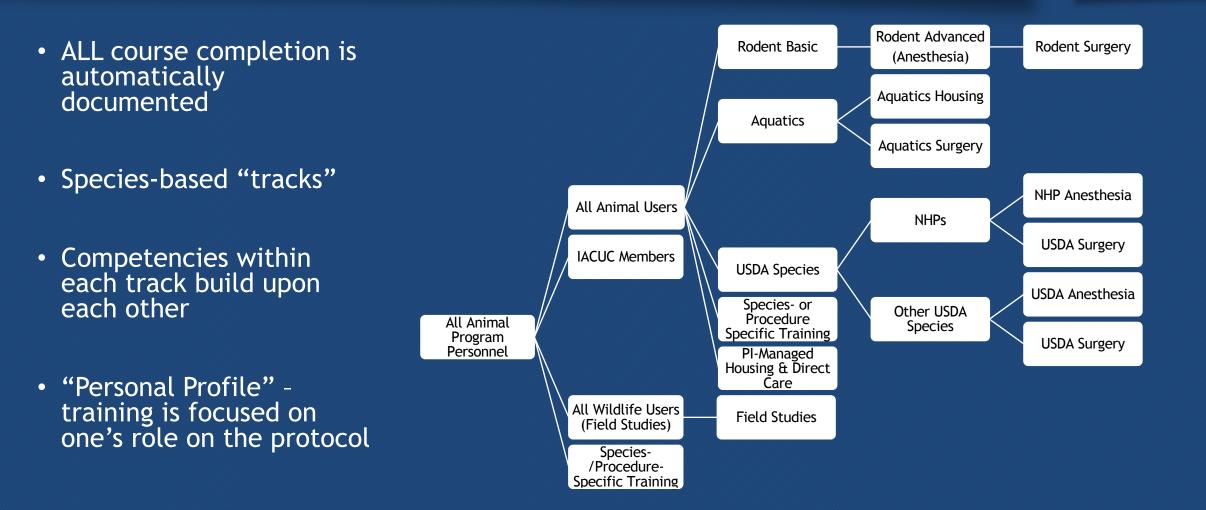
Major Changes to the "Training Policy"

- Medical surveillance is required for facility access
 - Senior Pls
- Competency concept
- Rodent Basic & Advanced Principles wet lab - more focused training experiences

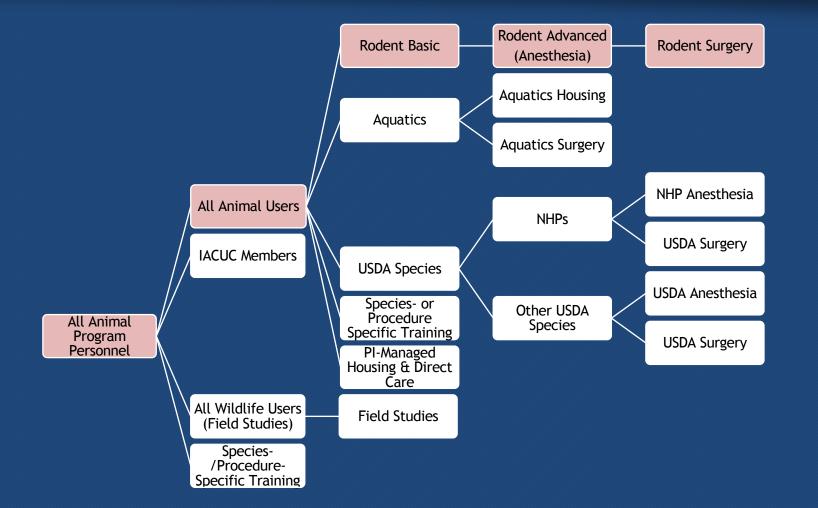
- Removed requirements with less value
 - Use of Vertebrate Animals in Research, Teaching, or Testing
 - Etc.
- Emphasized training of higher value
 - Reporting welfare concerns
 - Reporting adverse events
- Overall, net reduction in training quantity with an increase in training quality

Competency Concept

All Program personnel training should be documented (Guide p. 15)



Example: Rodent User Training



Previous Requirements for Rodent Users...

...What policy reviews are no longer expected to be specifically documented

• Discontinued as requirements

- Emergency Response Instructions (post in lab)
- Use of Vertebrate Animals in Research Teaching or Testing
- Policy and Procedure to Follow for Injuries Associated with Laboratory Animals
- Acclimation and Habituation
- General Health All Species

- Included in the Rodent Basic or Advanced Principles curriculum
 - Transportation of Animals Policies
 - Housing Policy: Mouse
 - Maintaining Colonies of Genetically Modified Animals Policy
 - Anesthesia Policy
 - Thermal Support of Anesthetized Rodents Policy

Previous Requirements for Rodent Users...

...What IACUC policy reviews are no longer expected to be documented

- Emergency Response Instructions (post in lab)
- Use of Vertebrate Animals in Research Teaching or Testing
- Policy and Procedure to Follow for Injuries Associated with Laboratory Animals
- Acclimation and Habituation
- General Health All Species

- Covered in Rodent Basic or Advanced Principles class
 - Transportation of Animals Policies

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- Maintaining Colonies of Genetically Modified Animals Policy
- Anesthesia Policy
- Thermal Support of Anesthetized Rodents Policy

All Animal Program Personnel All Animal Users	Rodent Basic	Rodent Advanced (Anesthesia)	dent Surgery
 All New* Research Staff Pls 	Training	Must be completed before	Replaces
 Post-docs Students Staff 	Working with the IACUC *	Protocol approval (PI) or being approved as study staff	Current TMS course
New IACUC MembersOARS Staff	Reporting Animal Welfare Concerns at Yale	Protocol approval (PI) or being approved as study staff	Policy review as part of lab-based training

* Everyone will take the ALL "Working with the IACUC" course once

All Animal Program Personnel All Animal Users	Rodent Basic	Rodent Advanced (Anesthesia)	odent Surgery
 All New Research Staff PIs Post-docs Students Staff 	Training Working with the IACUC NO (Must be completed before Protocol approval (PI) or being CHANGE IN REQUIREN	Replaces Current TMS course AENTS
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All Animal Program		All Animal Users		Rodent Basic		Rodent Advanced		Rodent Surgery	
Personnel				Rodene basie		(Anesthesia)		Rodene Surgery	
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- All personnel who routinely have contact with animals
 - Handling
 - Exposed in an open floorplan lab
- New IACUC Members
- OARS Staff

Training	Must be completed before	Replaces
Medical Clearance	Acquiring facility access	Currently required
YARC Facility Training Part I & II (YARC)	Acquiring facility access	Currently required
Euthanasia	Before conducting animal work	Policy review as part of lab-based training
Adverse Events	Before conducting animal work	Policy review as part of lab-based training
Pain Management of Lab Animals	Before conducting animal work	<u>Two</u> policy reviews for "Clinical Signs of Pain and Disease in Lab Animals" & "General Health - All Species"

All Animal Program Personnel		All Animal Users	<u> </u>	Rodent Basic		Rodent Advanced (Anesthesia)		Rodent Surgery
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- All personnel who routinely have contact with animals
- New IACUC Members
- OARS Staff
- Medical clearance is required for anyone who is exposed to animals (bay-style labs) or needs facility access

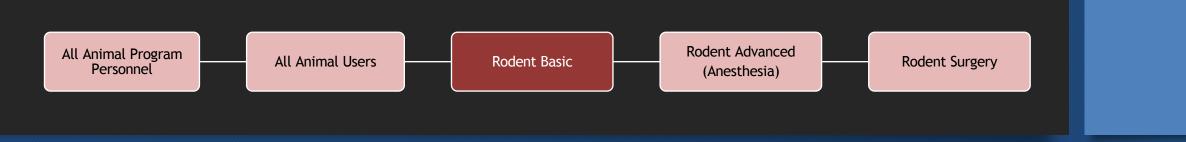
Must be completed before
Acquiring facility access
Acquiring facility access
Before conducting animal work
Before conducting animal work

Policy review as part of NTS-based training

All Animal Program Personnel All Animal Users Rodent Basic Rodent Advanced (Anesthesia) Rodent Surgery

- All ***inexperienced*** personnel who will be handling rodents
- Personnel managing breeding colonies (identification and genotyping procedures) and injecting rodents with compounds may "topout" with the Rodent Basic competency

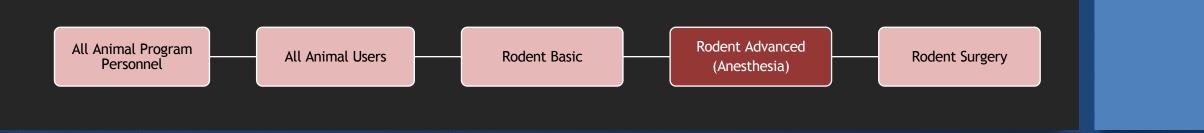
Training	Must be completed before	Replaces
Introduction to Mice -or- Introduction to Rats	Attending Rodent Basic Principles Wet Lab	<u>Two</u> policy reviews for "General Health - All Species" & "Housing - Mice"
Rodent Basic Principles Wet Lab	Working with live rodents alone	Currently required



- All ***inexperienced*** personnel who will be handling rodents
- Personnel managing breeding colonies (identification and genotyping procedures) and injecting rodents with compounds may "topout" with the Rodent Basic competency

Training	Must be completed before	Replaces						
NO NET CHANGE IN REQUIREMENTS licy reviews for								
• Inexperienced users may be required to take alth - All								
Introduction to Fals	-or- two (2) wet lab training classes Species" & "Housing -							
ALL "Intro" courses replace two policy reviews								
Rodent Basic	Working with live	Currently required						
Principles Wet Lab	rodents alone	currentty required						

All Animal Program Personnel All Animal Use	rs Rodent Basic	Rodent Advanced (Anesthesia)	Rodent Surgery
 All rodent users who will be performing 	r. Training	Must be completed before	Replaces
complex procedures on rodents, including anesthesia	Inhalation Anesthesia Systems for Rodents	Attending Rodent Advanced Principles Wet Lab	Policy review for "Anesthetic Vaporizer and Ventilator Maintenance Policy" & "Rodent Inhaled Anesthesia" course
 Accommodates experienced user more time learning "advanced procedures" and not 	Post-Procedural Care of Mice and Rats in Research: Minimizing Pain and Distress	Performing procedures, more complex than colony management activities, alone	Policy review for "Analgesia: Therapeutic Approaches for Attempting to Alleviate Pain and/or Distress"
procedures" and not waste wet lab time on basic handling	Rodent Advanced Principles Wet Lab	Must be completed before performing advanced procedures, alone	Split-out from Rodent Basic Principles



• All rodent users who will be performing complex procedures on rodents, including anesthesia

 Accommodates experienced user more time learning "advanced procedures" and not waste wet lab time on basic handling Inhalation Anesthesia Attending Rodent Advanced Vaporizer and Ventilator Systems for Rodents NO NETPCHANGE IN REQUIREMENTS Inhaled Anesthesia"

 Inexperienced users may be required to take two (2) wet lab training classes
 Post-Proce-uraALLe"Inhalation Anesthesia" course replaces a oaches for and Rats in Research:
 Minimizing Pai Policy review and a classities, alone

Rodent Advanced Principles Wet Lab Must be completed before performing advanced procedures, alone

Split-out from Rodent Basic Principles

All Animal Program Personnel	All Animal Users		Rodent Basic		Rodent Advanced (Anesthesia)		Rodent Surgery	
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- All rodent users who will be performing survival surgery
- Procedure monitoring will typically be conducted on one of the first few surgeries, but is not a pre-requisite for the first procedure

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Training	Must be completed before	Replaces
Aseptic Technique for Rodent Survival Surgery	Performing rodent survival surgery	Policy review confirmation for "Surgery: Rodent, Survival and Non- Survival" & "Aseptic Rodent Surgery" class
Procedure Monitoring	Promptly	Currently part of the PAM program
Procedure-Specific Training (lab)	Before performing survival surgery, alone	Currently required

All Animal Program Personnel All Animal Users	Rodent Basic	Rodent Advanced (Anesthesia)	Rodent Surgery
 All rodent users who will be performing survival surgery 	Training	Must be completed before	Replaces
 Procedure monitoring will typically be conducted on one of 	Aseptic Technique for rodent "Surgery: Rodent, Surv		Policy review confirmation for "Surgery: Rodent, Survival and Non- Survival" & "Aseptic Rodent QUIREMENTS
the first few surgeries, but is not a pre-requisite for the first procedure	Procedure Monitoring Procedure-Specific	Promptly Before performing	Currently part of the PAM program Currently required
	Procedure-Specific Training (lab)	performing survival surgery, alone	Currently required

Policy-related questions...

...before moving on to the MAPS training "module"?

MAPS Training Module Interface What competencies are required for the protocol

PROTOCOL REQUIRED COMPETENCIES

The content in the protocol has identified the need for the animal training competencies to be completed by one or more lab staff, all of which must be completed prior to working with those species or performing those procedures independently.

Count of Study
Staff Traiged Additional page at the end of the
³ protocol entry form
3 of 3
2 of 3
 ² of 3 • Required competencies, based on
protocol SPECIES, PROCEDURES,
1and/or DRUGS listed in the protoco
1 of 3

MAPS Training Module Interface Training completed/needed for protocol-associated staff

Study Staff Competencies

Review your study staff competencies not fulfilled and select all additional competencies that staff should complete for this protocol. The study staff will received an email notification of this requirement.

	Ai	Animal Competencies		
Study Staff	Completed Competency	Competencies Not Fulfilled		
Eve Moneypenny (view profile)	All Animal Program Personnel	Rodent Surgery 🛛	(check if required)	
	All Animal Users	Introduction to Rats	(check if required)	
	☑ Rodent Basic			
Bruce Barrows (view profile)	All Animal Program Personnel	Rodent Basic 🛛	(check if required)	
	All Animal Users	Rodent Surgery 🗆	(check if required)	
		Rodent Advanced	(check if required)	
Emma York (view profile)	All Animal Program Personnel			
	All Animal Users			
	☑ Rodent Basic			
	Rodent Surgery			
	Rodent Advanced			

- PI or lab manager confirms everyone's role on the protocol by assigning competencies
- When assigning, the person receives an email indicating new training requirements
- PERSONAL PROFILE completed training is linked to the person, not the protocol

MAPS Training Module Interface Training completed/needed for protocol-associated staff

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Bruce Barrows (view profile)	All Animal Program Personnel	Rodent Basic 🛛 (check if required)	
	All Animal Users	Rodent Surgery 🛛 (check if required)	
		Rodent Advanced (check if required)	
Emma York (view profile)	☑ All Animal Program Personnel		
	☑ All Animal Users		
	☑ Rodent Basic		
	☑ Rodent Surgery		
	☑ Rodent Admanced		
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- Eve may conduct colony management and administer compounds by injection in mice, but needs additional training prior to increasing her role or working with rats
- Bruce may be listed on a protocol, but will require more training to work with *live* animals
- Emma is considered fully trained to work with rodents

Next Steps ...for the next few minutes and the next few months

Requesting volunteers for "PI Interface Design" user group

- How can we minimize effort, but still assure adherence to requirements?
- How can the training program be refined too provide more service to the research community?
- 8-12 members of the research community
- A few 1-hour roundtable discussions
- Reviewing screenshots and commenting over email