

# OLAR – IACUC Town Hall Meeting

Monday September 11, 2017



# Agenda

- PPE changes in the facility
- eSirius update
- AAALAC site visit
- OLAR staffing update
- Announcements
- Questions

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"OK, I'm now going to read out loud every single slide to you, word for word, until you all wish you'd just die."

# PPE Changes in OLAR Facilities

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**“I’m just burying a bone, but it’s important to wear the proper safety gear for any job!”**

# Adjusting requirements for:

- Shoe Covers
  - Elimination in most areas
- Surgical Masks
  - Elimination for routine handling





# Shoe Covers for Bioexclusion

- Traditional requirement in animal facilities which started prior to the introduction of:
  - Microisolator and ventilated caging
    - *Very effective at controlling pathogen transmission between rooms, cages and racks*
  - Animal Transfer Stations (ATS) or Biosafety Cabinets (BSC) for handling



"At first I was happy I made smart transgenic mice.."



# Shoe Covers

- No scientific proof that shoe covers increase biosecurity
  - No effect on health of immunocompromised strains when not used
  - Endemically infected colonies
    - No transmission of pathogens with aseptic cage changing technique
  - Shoe cover integrity is lost quickly
    - ~10 minutes independent of shoe style (UC Irvine, AbbVie)
  - Improper donning and doffing may *increase* danger of transmitting murine pathogens (Ohio State)
- Increased physical hazard due to associated slips and falls



# Studies Performed



- The Ohio State University: “Effectiveness of Shoe Covers for Bioexclusion within an Animal Facility”<sup>\*</sup>
  - Contamination powder (applied directly to floor) that fluoresces under black light was used to track particle dispersal on floor and personnel
  - PPE with and without shoe covers was donned prior to entering the animal room and doffed at exiting
- Results:
  - All participants donning shoe covers fluoresced in multiple areas, primarily on gloves and gowns.
  - Shoe covers had no effect on the spread of powder with no powder detected in cages

<sup>\*</sup>Hickman-Davis JM, Nicolaus ML, Petty JM, Harrison DM, Bergdall. Journal of the American Association for Laboratory Animal Science. 51(2) 181-188, 2012





# Studies Performed (Cont)

- Columbia University: “Using Reduced Personal Protective Equipment in an Endemically Infected Mouse Colony”<sup>\*</sup>
  - Results: There was no evidence of disease transmission between colonies endemically infected with MHV and MNV
- Yale University: “Transmission of Mouse Parvovirus by Fomites”<sup>\*\*</sup>
  - Attached nestlets to shoe covers to expose them to the floor and then placed nestlets in cages. No transmission of MPV detected.
- University of Miami
  - Small study evaluating health effects on nude mice. No adverse health effects were detected, (Pending Publication)

<sup>\*</sup> Baker SW, Prestia KA, Karolewski B. Journal of the American Association for Laboratory Animal Science. 53(3) 273-277, 2014

<sup>\*\*</sup> Compton SR, Paterzo FX, Smith PC, Macy, JD. Journal of the American Association for Laboratory Animal Science. 51(6) 775-780, 2012



# Most Recent Review

- June 2017 Review Article – “Personal Protective Equipment in Animal Research” \*
  - OSHA requires shoe covers or boots in areas of high gross contamination
  - BMBL requires shoe covers in ABSL3 facilities
  - Does not improve bioexclusion and may cause contamination
  - Not necessary for rodent studies at ABSL1

\* Villano JS, Follo JM, Chappell MG, Collins MT. Comparative Medicine. 67(3) 203-214, June 2017

# Other Institutions That Have Eliminated Shoe Covers

- Harvard University
- Baylor University
- Stanford University
- The Ohio State University
- Yale
- University of Houston
- AbbVie
- University of Miami
- University of California, Irvine



"We call him mouse model of PI."

# Where are Shoe Covers Still Required?

- ABSL 2/3
- Large Animals (Swine)
- Quarantine
- Breeding Core
- Zebrafish Colony (or facility dedicated shoes)
- Necropsy
- Any room that may fall suspect with an excluded pathogen



**\*\*Shoe covers will be stocked in these areas**



# Surgical Masks



- OSHA definition for use:
  - Sick persons
    - *limit the spread of infectious respiratory secretions to others*
  - Healthcare providers
    - *Prevent accidental contamination of patients' wounds by the organisms normally present in mucus and saliva*
    - *Protect themselves from splashes or sprays of blood or bodily fluids*
    - *Helps to keep contaminated fingers/hands away from the mouth and nose*

\*\*They are not designed to prevent the inhalation of small airborne contaminants, allergens, etc



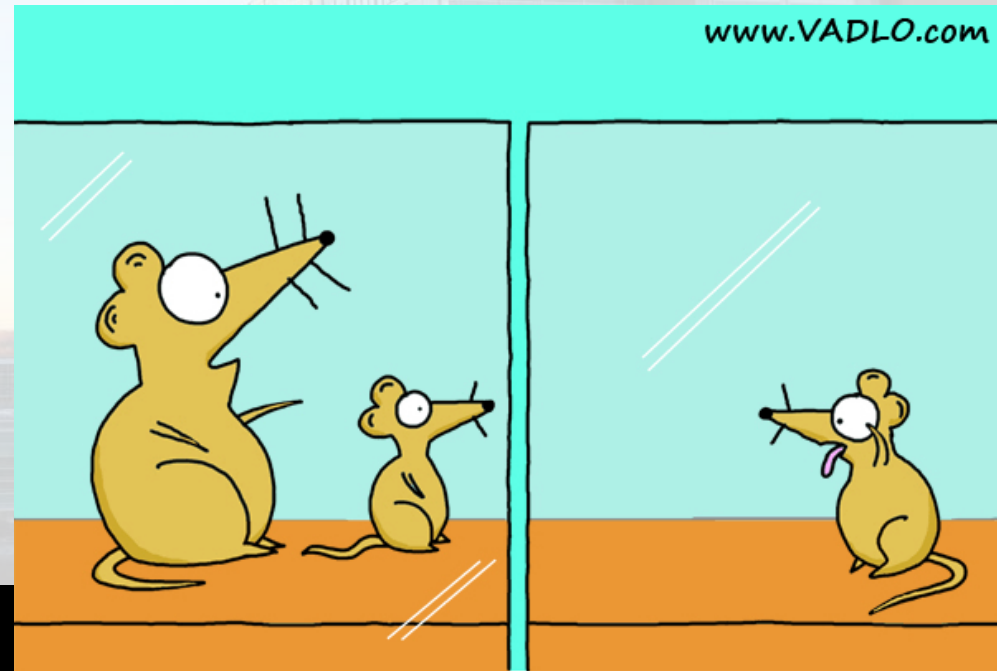
# When are Surgical Masks Still Required?

- **ALL survival surgical procedures**
  - Protection of the animals from accidental contamination
- Not required during routine animal handling
  - Continue use allowed if desired
  - Will continue to be stocked in all animal housing and procedural rooms.
- Animal allergies and hazards
  - Correct type and style will be project based
  - Consult with Occupational Health and EH&S
  - May require an annual fit-test (required for N-95 use)



# When does this start:

- Effective Monday September 18, 2017
- Skillport modules being update



“Don’t play with him, he is **Wild Type.**”



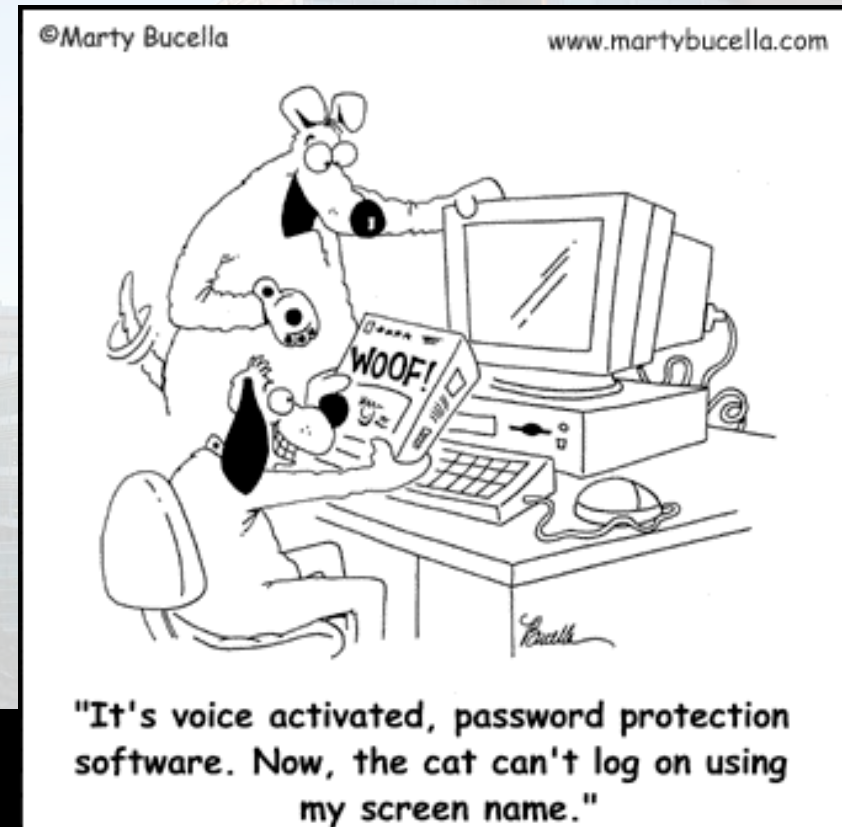
# eSirius Transition

New IACUC and Animal Facility Management Software

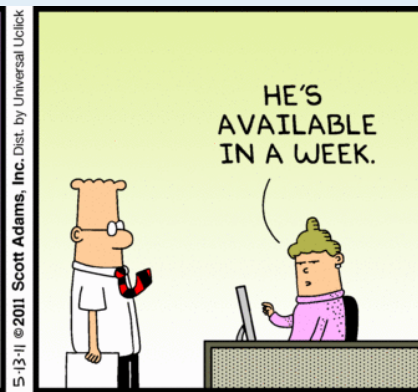


# eSirius

- NTM software company (20 years in business)
- Animal facility and IACUC program
- Multiple modules
  - IACUC protocols
  - IBC
  - Census
  - Billing
  - Animal Orders
  - Veterinary Care
  - Training



# TIMELINE



- **June/July 2017**
  - Meetings to develop program
- **Early Oct 2017**
  - Program delivered for testing
- **Early Nov 2017**
  - Product finalized/ further testing
- **December 2017**
  - Hand enter protocol information, census, billing, etc
  - User Training
  - New cage cards
- **January 1, 2017 – GO LIVE**



# IACUC Protocols

- All will be **HAND** transferred into new system
- Begin with shell, then move to full
- Begin early December 2017

## Researcher Tasks

- Submit protocols and amendments for **early IACUC review** in November **or wait** until January
  - See IACUC website for deadlines  
[www.ucdenver.edu/iacuc](http://www.ucdenver.edu/iacuc)
- Clear all outstanding reviewer comments by **November 30**



# IBC Protocols

- Will transition as protocols are renewed

## Researcher Tasks

- None at this time



# Animal Orders

- Animal ordering system in Topaz will be shut off after Wed December 6 deadline for last delivery Dec 11
- No animal orders received Dec 18, 25, and Jan 1
  - Includes both standard and non-standard vendors
- Will hand transfer standing and wait listed orders

## Researcher Tasks

- **PLAN AHEAD**
- Last day animals will be received **Monday December 11**
  - Last order date in Topaz Dec 6
- Animal order system in eSirius will GO LIVE January 1
  - First animals to arrive January 8



# Training

- Will provide in-person training
- Will develop tutorials to be posted on-line
- Hensel Phelps – bring laptop, tablet

## Researcher Tasks

- Watch for dates in December
- Plan to attend



# Researcher Tasks

- Pay attention to emails and respond
  - Update information
  - Important updates on project
  - Important timelines, especially training
- Submit and finalize protocols and amendments
  - Finalize in November
- Respond quickly to questions on protocols
- Attend training



LAB RAT REHAB

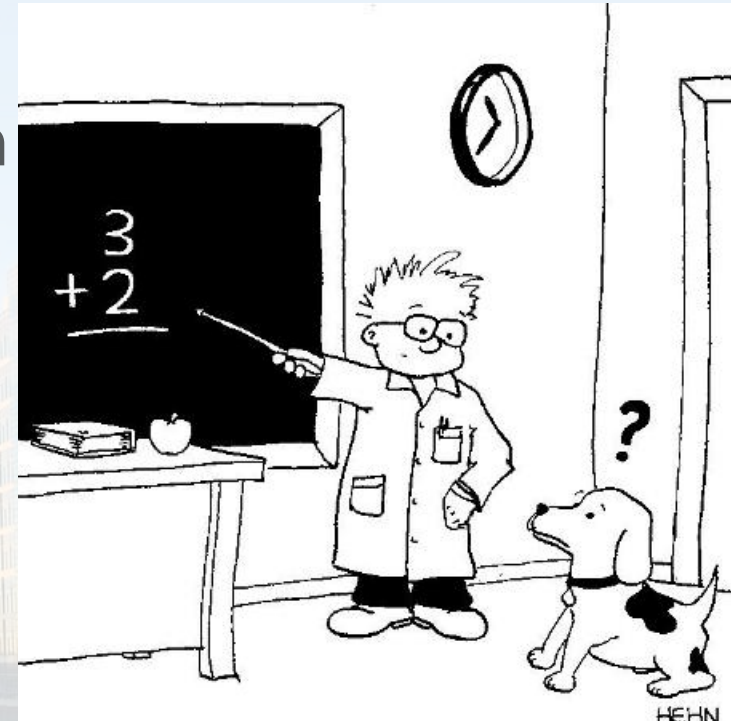
# AAALAC





# Timeline

- Fall 2017
  - Document review/submission
- 1<sup>st</sup> Quarter 2018
  - Town Hall Meeting
  - Pre-site visit to labs
  - Site visit



**\*\*More information to come**

# OLAR Staffing Update

- Chris Manuel, Assoc Director of OLAR
  - Biosecurity, research projects, VA
- Derek Fong, Assoc Director of Veterinary Services
  - Veterinary care including clinical veterinarians, vet techs, students, interns
- Lorraine Bell, Training Manager
- Henok Tekie, Training Technician
- Amy Sitnek, Import/Export Technician



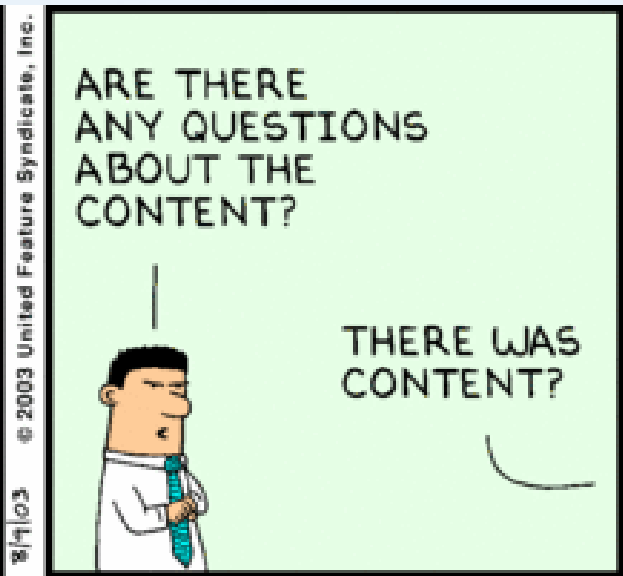
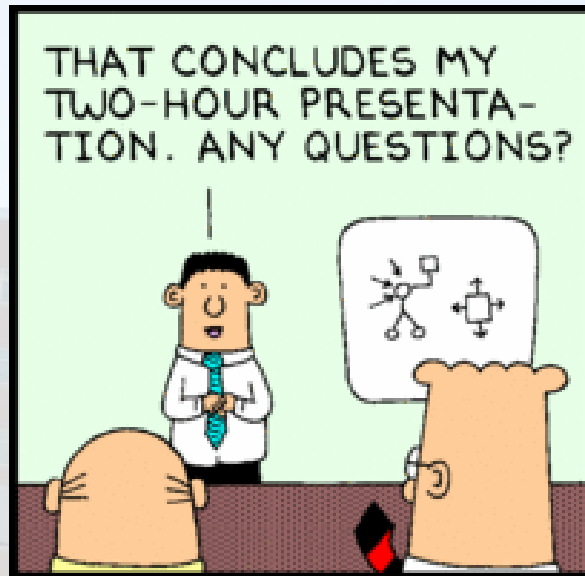
# Announcements

- USDA Animal Orders
  - Plan additional time
  - Will require secondary approval from:
    - *Facility Manager – space availability*
    - *Vet Tech Surgery Supervisor – surgery availability*
- OLAR Breeding Core Town Hall Meeting
  - Monday October 9 – 10:30 – 11:30 AM
  - Hensel Phelps East





# QUESTIONS?



www.dilbert.com scottadams@aol.com

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