

WASHINGTON BRANCH AALAS



Save the Dates!

WEBINAR & NETWORKING EVENT

DATE: THURSDAY, JUNE 14 2018
LOCATION: UW SLU CAMPUS
MORE DETAILS TO COME!



DATE: SATURDAY, AUGUST 4 2018

TIME: 11:00AM - 2:00PM

**LOCATION: GOLDEN GARDENS PARK,
PICNIC SHELTER #2, EXTRA TABLES: TABLES 10-15**

Sunshine, games, and food! The annual Summer Picnic is FREE for all 2018 WBAALAS members, families, friends, and pets.

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WBAALAS PRESIDENTS MESSAGE

Greetings WBAALAS Members!

I want to thank everybody who attended the 2018 WBAALAS Trade Fair! The event was well attended and I hope everybody enjoyed the beautiful new venue. We received some very valuable feedback on the event, and are looking forward to making the Trade Fair even better in the future. The branch is planning some exciting events in the months to come. Stay tuned for details on our upcoming AALAS webinar viewing and networking event on Thursday, June 14th in South Lake Union. Also, mark your calendars for the annual summer picnic on Saturday, August 4th at Golden Gardens Park. We are also excited to be hosting the 2019 District 8 Meeting at the Hyatt Regency in downtown Seattle on April 25th-26th, 2019!



WBAALAS is always looking for motivated individuals who are interested in getting more involved. Attending one of our monthly board meetings or joining a planning committee is a great way to start participating in the branch, to learn about leadership opportunities, and to gain CEU's. Our next board meeting is on Thursday, May 31st at 4pm. Please email me or any of the board members for details if you would like to attend a board meeting. If you have ideas and suggestions to make our events better, please consider joining a planning committee to help us organize future webinars, educational events, summer picnics, winter member appreciation events, Trade Fairs, and even the D8 Meeting in 2019.

Traci W.

WBAALAS President 2018
president@wbaalas.org

WBAALAS VIRTUAL 5K FUNDRAISER

On Saturday, May 12th, the WA Branch of AALAS hosted its second annual 5K fun run/walk in support of the Homes for Animal Heroes, Run for Research Awareness Virtual 5K fundraiser.



WBAALAS members, some with their families and dogs, gathered at Seward Park in Seattle on what turned out to be a beautiful, sunny day. The team walked around the park trail, taking in views of the water and enjoying great company while completing the 5K.

Members of WBAALAS have raised \$212 to date on behalf of HAH, and **fundraising efforts will continue until May 31st**. Visit the WBAALAS team page to donate to this important cause before the campaign closes! <https://www.classy.org/team/170008>

[Homes for Animal Heroes](#) is the first national program to work collaboratively with the research community to rehome retired research dogs and share the facts about the critical role animals in research play in the prevention, treatment, and cures for diseases.

CATCHING UP WITH WBAALAS

LABORATORY ANIMAL TECHNICIAN WEEK RECAP JANUARY 28 - FEBRUARY 3, 2018

This annual celebration recognizes laboratory animal technicians for their essential contributions as members of the research team.

VA PUGET SOUND

Tech Week, 2018 at the VA Puget Sound was a two-part celebration, beginning with a movie and pizza lunch. The staff gathered around the break room table, adorned with silly hats, ties, glasses, and feather boas for an extended lunch. Technicians, support staff, and a few researchers joined in watching the movie *Mouse Hunt*, while enjoying a selection of Pagliacci pizzas, salad, juice, and cookies.



Part two was a brunch, prepared and cooked by the Veterinarians and Facility Supervisor. The technicians ate waffles, sausages, yogurt, fruit salad, and juice, followed by chocolate, of course. The previous Facility Supervisor (recently retired) was also invited to drop by and celebrate the technicians with some homemade (and much coveted) treats!

NOVO NORDISK RESEARCH CENTER

This year we celebrated International Laboratory Animal Technician week with a few fun activities. We kicked off the week with a site-wide recognition and appreciation email and posting on our info screens throughout the site. There were lots of great email responses from site staff at all levels expressing their gratitude for all of the important work our Animal Techs do. Our team spent some time exploring at the Museum of History and Industry (MOHAI) in South Lake Union and went out for a nice lunch together.



Later that week we had a team challenge – The First Annual NNRC SI Cage Prep-Off! In the challenge, techs were judged on how quickly, properly, and cleanly they could prepare a set of cages. Style points were awarded and each person prepared their cages to a pre-selected song. In the end there was a champion who took home the coveted trophy!

CATCHING UP WITH WBAALAS

SPRING EDUCATIONAL TRADE FAIR RECAP MARCH 15, 2018

For over 20 years, the WBAALAS has been preparing Trade Fairs for their valued members with topics that support education, management, and networking opportunities. This event always has great vendor presence, food, and fun! The 2018 Trade Fair was no exception. This year I was especially proud because I had the privilege to moderate this event, and it was held at the HUB on the University of Washington campus.



Our new branch President Traci W. welcomed all to the Trade Fair and thanked everyone for their continued support. Then with excitement, it was time for me to introduce the speakers! I always find it interesting to find out a little about the speakers beforehand. This year I asked each speaker, "What's their favorite animal, movie, and where they placed in sibling order – firstborn, middle or youngest." This seemed to give the audience an extra charge before each presentation. Therefore, the speakers were able to engage the audience with timely topics. These topics included, "AAALAC Accreditation" by Lawrence I. (favorite animal corn snake) of the Office of Animal Welfare, University of Washington. Trainer, (and middle child) Erica F. through discussion and video informed us of chin bleeding techniques in mice. Preston V. (favorite movie Elf) also of the Office of Animal Welfare spoke on the much need subject, "Compassion Fatigue."



After a delicious lunch that included mingling with the vendors and a little networking, the program continued. An always delightful speaker Cindy P. (wants to be reincarnated as an otter) led us in a game of "Lab Animal Trivia Bowl" which was able to captivate the entire audience. Andrew B. (an only child) spoke about the "Pet Store Mouse" coming to a facility near you? Kati M. (favorite movie "The Princess Bride") from the Oregon Primate Center took us on a trip overseas in "Tails from Across the Pond." Lauren N. (favorite animal pigtail monkey) spoke on the topic "Management and Care in a Pig Cardiac Model." Her dedication and enthusiasm on the topic was felt by all! The last speaker of the day was Michael M. (first born son of Scott) took us back to the early years with the topic, "Evolution of Caging." Thanks Michael some of us remembered a few of those out of date cages. All the speakers did an excellent job. The past branch president, Jennifer K. and I drew names of members for some terrific prizes.



The 2018 Trade Fair was truly a great experience and I hope all who attended enjoyed it as much as I did. We would like to thank everyone who helped this event be the success it was. We especially like to thank the sponsors and the valued branch board members who work so hard to make everything we do great! Remember to keep moving forward!

Tony G.

WBAALAS Secretary 2018
secretary@wbaalas.org

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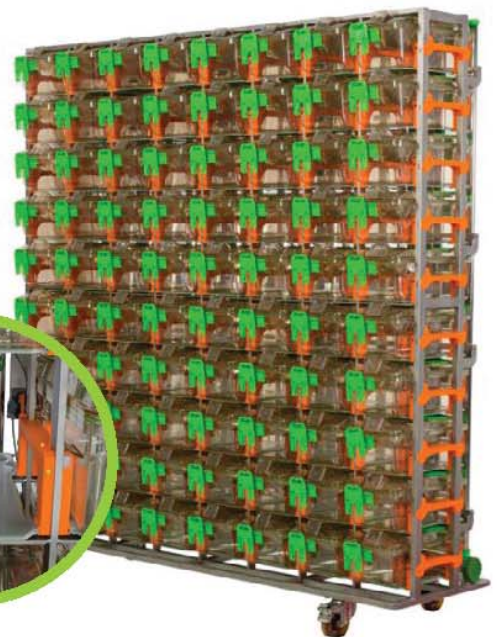


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TECNIPLAST

COOKING WITH WBAALAS

Submitted by the technicians at Novo Nordisk Research Center

THREE DELICIOUS RECIPIES TO ENJOY OVER THE SUMMER!

SHRIMP AND FRESH GNOCCHI

Directions:

Prepare the ingredients

1. Heat a large pot of salted water to boiling on high.
2. Wash and dry the fresh produce.
3. Cut off and discard the root ends of the scallions; thinly slice on an angle.
4. Remove and discard the corn husks and silks. Cut the corn kernels off the cob; discard the cob.
5. Peel and roughly chop the garlic.
6. Pick the basil leaves off the stems; discard the stems.

Blister the tomatoes

1. In a large pan, heat 2 teaspoons of olive oil on medium-high until hot.
2. Add the tomatoes. Cook, without stirring, 3 to 4 minutes, or until browned and blistered.
3. Season with salt and pepper.
4. Continue to cook, stirring constantly, 30 seconds to 1 minute, or until slightly softened.
5. Transfer to a bowl. Wipe out the pan.

Cook the corn

1. In the same pan, heat 2 teaspoons of olive oil on medium-high until hot.
2. Add the scallions and corn; cook, stirring occasionally, 1 to 2 minutes, or until slightly softened.
3. Turn off the heat; season with salt and pepper to taste.

Cook the Shrimp

1. Season shrimp with salt and pepper.
2. To the pan of cooked corn, add the seasoned shrimp, garlic, and as much of the red pepper flakes as you'd like, depending on how spicy you'd like the dish to be.
3. Cook on medium-high, stirring frequently, 3 to 4 minutes, or until the shrimp are opaque and cooked through.
4. Turn off the heat; season with salt and pepper to taste.

Cook and finish the Gnocchi

1. While the shrimp cook, add the gnocchi to the pot of boiling water. Cook 2 to 3 minutes, or until the gnocchi float to the top of the pot.
2. Reserving ½ cup of the gnocchi cooking water, drain thoroughly.
3. To the pan of cooked shrimp and corn, add the cooked gnocchi, blistered tomatoes, butter, half the reserved gnocchi cooking water, and half the basil (tearing the leaves just before adding).
4. Cook on medium-high, stirring vigorously, 1 to 2 minutes, or until the gnocchi are coated. (If the sauce seems dry, gradually add the remaining gnocchi cooking water to achieve your desired consistency.)
5. Turn off the heat. Season with salt and pepper to taste.

Ingredients:

- 10 oz Shrimp
- ¾ lb Fresh Gnocchi
- 2 cloves Garlic
- 2 Scallions
- 1 ear of Corn
- 1 bunch Basil
- 2 Tbsps Butter
- ¼ tsp Crushed Red Pepper Flakes
- 6 oz Cherry Tomatoes



DO YOU HAVE A RECIPE TO SHARE? CONTACT NEWSLETTER@WBAALAS.ORG.

COOKING WITH WBAALAS

Submitted by the technicians at Novo Nordisk Research Center

THREE DELICIOUS RECIPIES TO ENJOY OVER THE SUMMER!

BLACKBERRY CRUMBLE IN CAST IRON

Ingredients: Blackberry Filling

- butter for greasing dish
- 4 cups blackberries fresh or frozen
- 1/4 cup granulated sugar
- 2 tsp cornstarch
- 1 tbsp water

Ingredients: Crumble Topping

- 1 cup quick-cooking oats
- 1/2 cup brown sugar firmly packed
- 1 tsp ground cinnamon
- 1/2 cup flour
- 1/2 cup cold butter cut into small cubes

Directions:

1. Preheat oven to 375 degrees F.
2. Heat a 10 inch cast iron skillet and grease with melted butter, then remove from heat.
3. In a medium bowl toss blackberries with granulated sugar, cornstarch, and water.
4. Pour blackberry mixture into skillet.
5. In a medium bowl combine oats, brown sugar, cinnamon, and flour.
6. Using a fork or pastry cutter, cut the butter into the oat mixture until you have a small crumbly mixture.
7. Sprinkle evenly over top of the blackberries.
8. Place into the oven and cook for 25 to 30 minutes or until filling is bubbly and the topping is golden.



SUMMER MAI TAI'S

Ingredients:

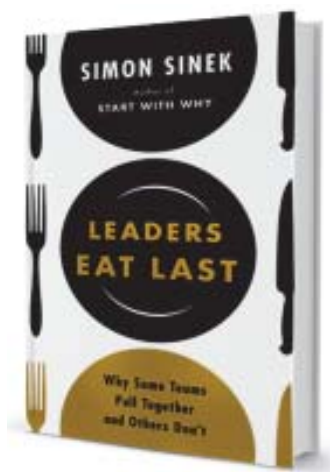
- POG- Passion Orange Guava Juice
- White non spiced Rum
- Pineapple Juice
- Lime Juice
- Ice
- Pineapple slice (optional)
- Lime slice (optional)

Directions:

1. Pour 1.5 ounces of white rum into a glass.
2. Combine with a splash of pineapple juice and a splash of lime juice.
3. Fill the remainder of the glass with POG.
4. Add ice cubes as needed.
5. Garnish with pineapple slice and lime slice. Enjoy many!



DO YOU HAVE A RECIPE TO SHARE? CONTACT NEWSLETTER@WBAALAS.ORG.



LEADERS EAT LAST: WHY SOME TEAMS PULL TOGETHER AND OTHERS DON'T

by Simon Sinek; 2014

Imagine a world where almost everyone wakes up inspired to go to work. This is not a crazy, idealized notion. In many successful organizations, great leaders are creating

environments in which teams trust each other so deeply that they would put their lives on the line for each other. Yet other teams, no matter what incentives were offered, are doomed to infighting, fragmentation, and failure. Why? Workplaces tend to be full of cynicism, paranoia, and self-interest. But the best organizations foster trust and cooperation because their leaders build what Sinek calls a Circle of Safety. It separates the security inside the team from the

challenges outside. Everyone feels they belong and all energies are devoted to facing the common enemy and seizing big opportunities. Sinek illustrates his ideas with fascinating true stories. He shows that leaders who are willing to eat last are rewarded with deeply loyal colleagues who will stop at nothing to advance their vision. It's amazing how well it works.

MANAGER ROUNDTABLE RECAP

On April 19th, about 12 laboratory animal facility leaders gathered at Bloodworks NW to discuss hot topics in facility and people management. Below is a summary of what was discussed.

IMPACT ON THE ENVIRONMENT

- **Composting bedding.** How do you dispose of your bedding waste? Managers discussed composting as an alternative worth exploring. Although there are challenges in getting a composting program initiated, this brought the group to discuss the feasibility, cost, and logistics associated with pursuing a greener option.
- **Recycling water pouches.** Do you use water pouches as an alternative to water bottles? Managers noted that while not all recycling facilities accept water pouches, it is worth asking your recycler if they do!

FACILITY RESOURCE DISCUSSION

Every facility has unique needs, and what works for some may not be ideal for others. Managers exchanged thoughts and ideas based on their personal experience using various resources in their own facilities. Attendees gave their input on what resources they are currently using and compared different vendors for:

- Required PPEs, such as shoe covers and gowns
- Antimicrobial flooring
- RFID ear tags
- Animal Management Software systems

COMPANY/PRODUCT SHOWCASE

- **Animal Watering Systems.** Discussion with Al Carlile, President of SE Labs about the pros and cons of different types of animal watering systems available in the lab animal market.
- **Decontamination Systems.** Demonstration by Michael Matthews, Equipment Consultant & Sales Professional at Applied Instruments of the TOMI Ionized H2O2 Decontamination System.

CONTACT ROUNDTABLE@WBAALAS.ORG TO BE INCLUDED IN - OR TO HOST - A FUTURE ROUNDTABLE.

Clicker Train your Pigs – You Won't be Sow-E

Michelle Warren, Lab Technician for Fred Hutch Cancer Research Center

If you have ever heard or said in your vivarium, "Ugh, smells like a barn in here," you must work with pigs! Or, maybe they're your next door neighbor at the vivarium. However, you are affiliated, this is very exciting because you work with one of the most valuable human disease models. Swine are not an easy animal to handle due to their behavior, strength and size. So, how do researchers work side-by-side with an animal capable of bulldozing them over? I can tell you it is not an easy task, by any means.

Pigs are one of the most intelligent animals I have worked with. Alternatively, their behavior can drastically change depending on environmental, biological, and social dynamics. As a result, they require a lot of work, focus and patience. A pig can be completely cooperative one day, and unapologetically disrespectful to your research the next. For example, our pigs have gone on workers strike. Yes, you read me right, pig workers strike. This was all due to receiving new straw and finding more interest in rooting around in it than going to work. We had to cancel training due to the fact.

Swine are social animals that require specific enrichment, socialization, handling techniques, it is important for Animal Care Technicians (ACT), and Researchers handle these animals with respect.

So, why use swine if they are difficult?

Swine are valuable human disease model making them an appealing to investigators. The most common biomedical models in swine involve the cardiovascular, integumentary, urinary, and digestive system. One solution can make working with them in a research setting much easier, at least it did for our research group. Clicker



training. No, I am not pulling your leg – you can train a pig, easily. In fact, my research group successfully did so in a short amount of time. Our goal was to minimize stress in our research pigs using operant conditioning and build trust between animal and researcher. If you can understand a pig's behavior, you can handle them in a research environment when minimum stress is applied.

Understanding Pigs and Building a Relationship:

Our research group receives a group of unaltered female Yucatan pigs from S and S Farms outside of San Diego, California. We give the pigs a day to relax and adapt to their new enclosure without the interaction of our research group. The next morning of our group dedicated this day to introduce and habituate the pigs to our staff. We take the time to use treats (Star-treats, Red Vines, and Cheerios), enrichment items, singing/whistling, touch training, and free roaming in their room. Our goal is for the pigs to get use to the research staff by positively rewarding them with good-natured time spent. It is also important get a survey of the behavior of each pig. Impending changes in the training to help facilitate success.



Noise phobia, touch phobia and difficulty leaving cage are common within our research pigs. Separate training and patience were given to these pigs as we worked with them in different ways. Noise phobia pigs were given quieter sessions and longer times getting use to audio produced equipment (Treadmill and Sling). Touch phobia pigs were allowed touch session, where the staff would pet, click, and verbally say

"good pig" as they free fed treats. Pigs afraid of leaving cage were enticed with treats; "friend" to be out in the room to encourage pig to come out, ramp and synthetic steps were made to help pig feel comfortable stepping down, and verbal encouragement. As repeated removal of pig from cage to training room became more frequent, there was an increase of courage from shy pigs to walk out without any additional help.



If the pig is overwhelmed or distracted, it may be time for a break. Alternatively, you may need to take a step down and re-condition the pig to the particular command by making a smaller enclosure for you and the pig to minimize distraction, re-teaching command or even try rapid fire commanding.

Training Sessions: Each training session for each individual pig was 10 minutes long. To allow for more focus and determination from the pigs, staff performed training between feeding times, 8:30 AM and 2:00 PM.

Click training: First Step in training, present treat to pig and click when they begin to ingest. This is very important first step as it allowed the pigs to get use to the audio produced from the clicker and to begin operant conditioning. Repeat this step for audio nervous pigs. An example of this behavior is when a pig flinches with sound.

Target training: Research staff use a red round spatula as our "target". Once the pig touch it's snout to the desired target, we immediately did the following: **Click → Treat → Verbal, "Good pig"**. We started with stationary training, where the staff member would sit and have the pig go through rapid-fire target practice. If the pig accurately followed the target, we would then proceed to move the target around the room. If the pig continues to pass each step, then follow up with group target practice, where multiple staff members target the pig to a location at a time.



Target to room: Target pig from or to desired location. In our case, it would be from the pig's enclosure to the next room over (Training room) and back after 10-minute training session was completed.

Target to scale: After the pig targeted into the training room, staff would target the pig onto the scale. This step allows us to record the pig's weight and is essential to getting the pig use to stepping up onto a padded surface. (As we needed this for the treadmill stage.)

Touch training: Spread out treats in a small section of the floor so the pig could free feed. As free feeding was occurring, the research staff would touch/pet the pig's ears, hind end, lift limbs, and poke. We would *click* on the clicker and verbally say "Good

pig" during this step. We encourage touching ears and poking their neck to desensitize the pig to physical exams and other medical procedures

During touch training, I would hand feed the pigs because it teaches the pigs. Doing this can be problematic at first due to the potential of being bitten, but, if done correctly, overtime, you will be able to get the pigs to eat from your hand without biting down on your fingers.



Treadmill training: First stage was to allow pig to preform target training or touch training when treadmill turned on for audio desensitization. Second stage of treadmill training was to target pig onto ramp and allow pig to become use to standing on machine. Staff members highly praised pig with treats for standing correct way by treating pig with higher desired treats such as yogurt or other preferable snacks.

Once pig seemed calm on machine, we would turn on the treadmill and turn the speed to 0.5-mph. Continue target practicing with pig to keep pig from getting overwhelmed. Immediately stop pig if animal falls or becomes overwhelmed. Final stage was to allow pig to get off machine and then targeted back onto stationary treadmill.

Hula-hoop Training: Yes, you can teach a pig to fly and by that, I mean jump through a hoop. You will need a hoop holder and a participant to target the pig through the hoop. Place the hoop on the ground and target the pig through the hoop then reward with a treat (or a few). Raise the hoop, ever so, as you and the pig deem fit. Quickly, you will see the results of a pig jumping through a hoop. They and the staff seem to enjoy this the most.

When you train research animals, you will see their personalities shine because of the type of training enrichment provided; Tails curly, wagging and even galloping pigs excited to get to work. A type of respect and bond has forged for one another, researcher and pig working side by side in a fun non-stressful way. Researchers are even able to lift the pig during the hand feeding process of touch training without any resistance. A handy taught attribute for pre and post anesthesia. Clicker training swine helps create a language and understanding that supports the relationship between researcher and animal; working with these pigs, are the highlight of my day because we understand one another.

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SLEEPING MICE!

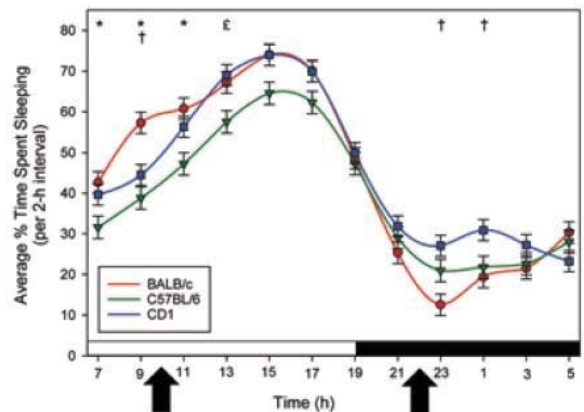
By Kari K.



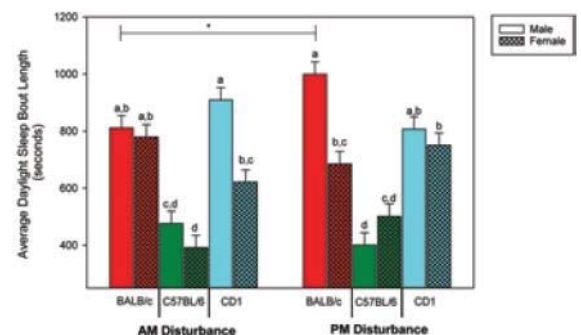
Mice are nocturnal, which means they are active at night and sleep during the day. Have you ever wondered about their sleep patterns in the laboratory setting? If mice want to sleep in the day and that's when we do all our husbandry and experiments, does this lead to them getting less sleep or otherwise interfere with their sleep patterns? After all, in people, night shift work is associated with increased health problems. Isn't doing experiments on mice and changing them during the day equivalent? If changing the mice during the day is stressful, can we minimize the stress by giving the mice extra nesting material?

A lab recently did a sleep study in mice to answer these questions. They housed mice in special cages that could track their sleep, then they compared their sleep patterns when people changed their cages and did other husbandry tasks in the room in the day or at night. They also included groups that got varying amounts of nesting material to see if having more nesting material would help them get more sleep during the day when people were working in the room.

What did they find out? In the peak sleep time, from noon-3 pm, mice sleep up to 70% of the time, and the peak activity time, from 11pm-1 am, mice still sleep 10-20% of the time. Also, the amount of time spent sleeping varied by strain, with C57BL/6 mice sleeping less than BALB/c and CD1 mice (figure 1).



C57BL/6 mice also have shorter daytime sleep bouts (the amount of time a mouse slept each time it slept) than BALB/c and CD1 mice, regardless of when husbandry is performed (figure 2).



The husbandry schedule did change the amount of sleep and the length of sleep bouts at various times of the day. But overall, mice did not sleep less when disturbed during the day and the amount of nesting material given to the mice had only a small effect on the sleep patterns of mice. The conclusion was that mouse sleep patterns are not adversely affected by routine husbandry performed during daylight hours, which is good news for all of us who don't want to work in the dark or at night!

Reference: Robinson-Junker, A, O'Hare, B and Gaskill, B. 2018 Out like a light? The effects of a diurnal Husbandry Schedule on Mouse Sleep and Behavior JAALAS 57:124-133

WBAALAS JOB BOARD

INTERESTED IN A LISTING BELOW? CONTACT THE POSTING ORG!

RESEARCH TECHNICIAN I-II

Seattle - A focus on animal husbandry (mice). A primary responsibility will be the analysis, management, and oversight of a large number of experimental mice. For more information, visit:

<https://usr53.dayforcehcm.com/CandidatePortal/en-US/bloodworks/>

BLOODWORKS NORTHWEST

ANIMAL TECHNICIAN I/III

Seattle - Conduct laboratory animal care and associated support duties according to standards set forth by the Guide to achieve and/or maintain full accreditation status with AAALAC. For more information, visit:

<https://careers-seattlechildrens.icims.com>

SEATTLE CHILDREN'S RESEARCH INST.

RESEARCH TECHNICIAN I

Seattle - We are looking for a self-motivated and dedicated individual with interests in gene therapy, molecular biology, and immunology for projects involving the development of novel gene therapy strategies for hemophilia. The research efforts involve a broad range of experimental techniques including PCR, molecular cloning, cell culture, biochemical assays, ultrasound, imaging, and mouse and large animal studies. For more information, visit: <https://careers-seattlechildrens.icims.com>

SEATTLE CHILDREN'S RESEARCH INST.

IMAGING SPECIALIST

Seattle - Responsible for supporting the small animal imaging needs of researchers and Comparative Medicine at FHCRC. Assist researchers in the use of multiple imaging equipment (including Ultrasound, MRI, Optical imaging equipment), provide imaging services and extend support to small animal clinical services when needed. For more information, visit: <https://careers-fhcrc.icims.com/>

FRED HUTCH

VETERINARY TECHNICIAN II

Seattle - Responsible for performing routine husbandry, housekeeping, and skilled veterinary technical duties necessary for adequate care and support of research animals and facilities. For more information, visit: <https://careers-fhcrc.icims.com/>

FRED HUTCH

ANIMAL TECHNICIAN I-III

Seattle - Performs routine rodent husbandry, custodial care for the rodent areas, and processes equipment. This is considered an entry-level position for individuals with no prior experience in laboratory animal care procedures or skilled individuals who are transitioning from other animal care positions. The position of tech I-III will be determined depending on experience. For more information, visit:

<https://careers-fhcrc.icims.com/>

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EVENTS CALENDAR

NETWORKING!!



FRI-SUN/JUN 8-10

NORTHERN ROCKY MOUNTAIN BRANCH MEETING

Held at the University of Montana's Flathead Lake Biological Station in northwestern Montana, a weekend of education, networking, learning and a little R & R all while nestled on the beautiful shores of Flathead Lake. Visit nrmbaalas.wordpress.com for details!

THU/JUN 14

WBAALAS WEBINAR VIEWING & NETWORKING EVENT

Join us at UW's South Lake Union campus for a rebroadcast of an AALAS webinar and to network with your LAS colleagues! More details to come.



TUE-THU/JUL 13-17

AVMA CONVENTION

AVMA Convention 2018 has something for every background and interest. Interactive CE opportunities, hands-on labs, panels and lectures taught by the best and brightest in veterinary medicine.



SAT/AUG 4

WBAALAS SUMMER PICNIC

Sunshine, games, and food! The annual Summer Picnic is FREE for all 2018 WBAALAS members, families, friends, and pets. Visit wbaalas.org for details.



OCT 28-NOV 1

AALAS NATIONAL MEETING

AALAS 2018 will draw more than 4,000 members. Lectures, workshops, poster sessions and exhibits! For more information on AALAS 2018, visit www.aalas.org.



PLAN AHEAD FOR 2019!

TUE-THU/APR 2-4

IACUC CONFERENCES

Bring together 600 professionals from state and federal government, industry, and academia. The conference features programming for those new to the field, as well as professionals with many years of experience. Visit primr.org & nwabr.org for more information.

THU-FRI/APR 25-26

DISTRICT 8 MEETING IN SEATTLE!

In 2019, the District 8 Meeting will be held at the Hyatt Regency in downtown Seattle on April 25th-26th. District meetings are a great way to experience the continuing education, networking, interaction with vendors, and camaraderie of a national AALAS meeting, but a bit scaled down and more relaxed. Stay tuned for information about the meeting theme, workshops, seminars, poster session, and awards!

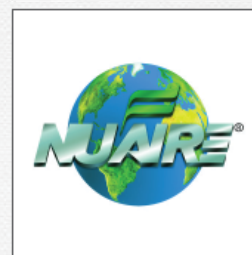
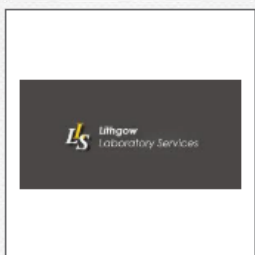
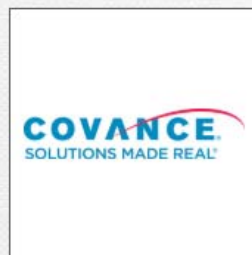
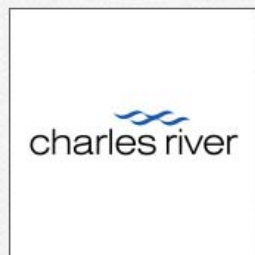
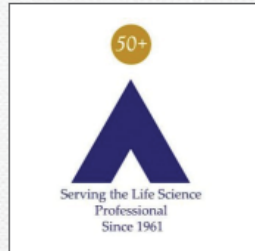
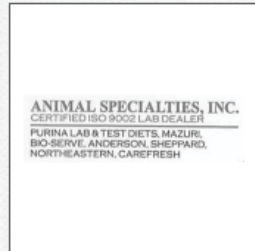
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