

RadioLab episodes for Neuro:

1. "Colors" <http://www.radiolab.org/story/211119-colors/>
2. "Damn It, Basal Ganglia" <http://www.radiolab.org/story/151639-damn-it-basal-ganglia/>
3. "Talking to Machines" <http://www.radiolab.org/story/137407-talking-to-machines/>
4. "Stranger In the Mirror" <http://www.radiolab.org/story/91967-strangers-in-the-mirror/>
5. "Where Am I?" <http://www.radiolab.org/story/91524-where-am-i/>
6. "Memory & Forgetting" <http://www.radiolab.org/story/91569-memory-and-forgetting/>
7. "Sleep" <http://www.radiolab.org/story/91528-sleep/>
8. "Who Am I?" <http://www.radiolab.org/story/91496-who-am-i/>
9. "Happy Birthday, Good Dr. Sacks" <http://www.radiolab.org/story/305470-happy-birthday-good-doctor-sacks/>
10. "When Brains Attack!" <http://www.radiolab.org/story/217555-when-brains-attack/>

On Thu, Sep 21, 2017 at 12:18 PM, RobinL Cooper

<robinlewiscooper1@gmail.com> wrote:

> Apparently there are a whole host of TED talks related to neuroscience

> available online

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> Neurological illness:

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> https://www.ted.com/talks/jill_bolte_taylor_s_powerful_stroke_of_insight

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> https://www.ted.com/talks/gregory_petsko_on_the_coming_neurological_epidemic

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> https://www.ted.com/talks/oliver_sacks_what_hallucination_reveals_about_our_minds

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> https://www.ted.com/talks/andres_lozano_parkinson_s_depression_and_the_switch_that_might_turn_them_off?language=en

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> https://www.ted.com/talks/lisa_genova_what_you_can_do_to_prevent_alzheimer_s?language=en

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> Psychiatric Illness:

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> https://www.ted.com/talks/joshua_walters_on_being_just_crazy_enough

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- > https://www.ted.com/talks/sherwin_nuland_on_electroshock_therapy
- >
- > https://www.ted.com/talks/andrew_solomon_depression_the_secret_we_share
- >
- > https://www.ted.com/talks/vilayanur_ramachandran_on_your_mind
- >
- > https://www.ted.com/talks/temple_grandin_the_world_needs_all_kinds_of_minds
- >
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- > https://www.ted.com/talks/wendy_chung_autism_what_we_know_and_what_we_dont_know_yet?language=en
- >
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- > https://www.ted.com/talks/thomas_insel_toward_a_new_understanding_of_mental_illness?language=en
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- > https://www.ted.com/talks/eleanor_longden_the_voices_in_my_head
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- > Affective neuro:
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- > https://www.ted.com/talks/david_anderson_your_brain_is_more_than_a_bag_of_chemicals
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- > https://www.ted.com/talks/rebecca_brachman_could_a_drug_prevent_depression_and_ptsd/footnotes?language=en
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- > https://www.ted.com/talks/robert_sapolsky_the_biology_of_our_best_and_worst_selves?language=en
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- > Cognitive neuro:
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- > https://www.ted.com/talks/anil_seth_how_your_brain_hallucinates_your_conscious_reality?language=en
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- > https://www.ted.com/talks/mehdi_ordikhani_seyedlar_what_happens_in_your_brain_when_you_pay_attention
- >

- > https://www.ted.com/talks/uri_hasson_this_is_your_brain_on_communication?language=en
- >
- > https://www.ted.com/talks/daniel_wolpert_the_real_reason_for_brains?language=en
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- > Neurogenesis, Brain repair:
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- > https://www.ted.com/talks/sandrine_thuret_you_can_grow_new_brain_cells_here_s_how?language=en
- >
- > https://www.ted.com/talks/siddharthan_chandran_can_the_damaged_brain_repair_itself
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- >
- > https://www.ted.com/talks/jocelyne_bloch_the_brain_may_be_able_to_repair_itself_with_help?language=en
- >
- >
- > https://www.ted.com/talks/siddhartha_mukherjee_soon_we_ll_cure_diseases_with_a_cell_not_a_pill
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- > Neuroendocrinology:
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- > https://www.ted.com/talks/paula_johnson_his_and_hers_healthcare
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- > Visualizing the brain, Allen Brain Atlas:
- >
- > https://www.ted.com/talks/carl_schoonover_how_to_look_inside_the_brain
- >
- > https://www.ted.com/talks/allan_jones_a_map_of_the_brain
- >
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- >
- > Optogenetics:
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- > https://www.ted.com/talks/ed_boyden
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- > https://www.ted.com/talks/gero_miesenboeck
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> fMRI/EEG/Connectome:

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> https://www.ted.com/talks/christopher_decharms_scans_the_brain_in_real_time

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> https://www.ted.com/talks/read_montague_what_we_re_learning_from_5_000_brains

>

> https://www.ted.com/talks/sebastian_seung

>

> https://www.ted.com/talks/ariel_garten_know_thyself_with_a_brain_scanner

>

> https://www.ted.com/talks/nancy_kanwisher_the_brain_is_a_swiss_army_knife?language=en

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> Neuroprosthetics:

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> https://www.ted.com/talks/greg_gage_how_to_control_someone_else_s_arm_with_your_brain

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> https://www.ted.com/talks/tan_le_a_headset_that_reads_your_brainwaves

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> https://www.ted.com/talks/gregoire_courtine_the_paralyzed_rat_that_walked?language=en

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> Computational Modeling & the brain:

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> https://www.ted.com/talks/henry_markram_supercomputing_the_brain_s_secrets

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> Brain Evolution:

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> https://www.ted.com/talks/suzana_herculano_houzel_what_is_so_special_about_the_human_brain

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> Genetics:

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> https://www.ted.com/talks/james_watson_on_how_he_discovered_dna?language=en

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https://www.ted.com/talks/riccardo_sabatini_how_to_read_the_genome_and_build_a_human_being?language=en

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- > https://www.ted.com/talks/stephen_friend_the_hunt_for_unexpected_genetic_heroes
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- > https://www.ted.com/talks/jennifer_doudna_we_can_now_edit_our_dna_but_let_s_do_it_wisely
- >
- > https://www.ted.com/talks/sebastian_kraves_the_era_of_personal_dna_testing_is_here
- >
- > https://www.ted.com/talks/richard_resnick_welcome_to_the_genomic_revolution
- >
- > https://www.ted.com/talks/francis_collins_we_need_better_drugs_now
- >
- > https://www.ted.com/talks/keolu_fox_why_genetic_research_must_be_more_diverse?language=en
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- > Epigenetics:
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- https://www.ted.com/talks/moshe_szyf_how_early_life_experience_is_written_into_dna?language=en
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- > Cell biology:
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- > https://www.ted.com/talks/david_bolinsky_animates_a_cell?language=en
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- > Sleep & Mental health:
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- > https://www.ted.com/talks/russell_foster_why_do_we_sleep?language=en
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- > Animal Behavior:
- >
- > https://www.ted.com/talks/carl_safina_what_are_animals_thinking_and_feeling?language=en
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- https://www.ted.com/talks/laurel_braitman_depressed_dogs_cats_with OCD_what_animal_madness_means_for_us_humans?language=en
- >
- > https://www.ted.com/talks/frans_de_waal_do_animals_have_morals
- >
- > https://www.ted.com/talks/joshua_klein_on_the_intelligence_of_crows

The rest of us salve labors (me included) in collected data.... a hearty congrats for staring in microscopes for hours on end in a dark room on nice summer days last summer.

Yours, Robin

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Wednesday Dec 14, 2016

Now that this semester is over time to think about the next one.

We have 2 new people joining the lab who you might know. One returning student after taking a break enjoying 1st yr of med school and some who have been in the shadows helping with on line mentoring for high school students as well as one who is getting a lot of exercise on the basketball court who will be in the lab more as well. Recall we are also running 3 different sections of Bio199 and teaching Bio446/650 neurophysiology. The TA and Bio199 mentors may also be in and out of the lab.

I bring the lab list to your attention so you know who is around. Updated photos will be on our lab web page soon.

Samuel Potter is back while between med classes to work on some projects with Rachel Potter.

NEW: Andrea Cooper (not related to me) is a Bio395 who will help out with the Bio199 class on Thursday nights.

NEW: Matthew Mattingly is a Grad student (Bio795) who will be helping on some optogenetics and Bio199 class on Thursday nights.

NEW: Brittany Slabach is a grad student TA helping in the Bio199 labs but will also be in our research lab with organizing the Bio199ers content.

NEW: Meaghan Melody & Crysta Meekins (Bio199 mentors)

So the lab gang is:

List hide

Robin Cooper (RLCOOP1@uky.edu)

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Fri, Dec 9, 2016

Hi Lab gang,

LaShay and Eashwar applied for the Ribble award and they both got it !!!

\$1500 bucks each !!!

Think how much coffee that will buy us !

Congratulations !!!!!!!!!!!!!!!!!!!!!

Happy times for those two as they skip off for the winter break.

Good luck on everyone's final exams.

Yours, Robin



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Lab Bird Party !!!!

Time to eat a Big Bird.



November 8, 2015 (SUNDAY)

6:00 PM

111 Shady lane, Lexington, KY

<https://www.google.com/maps/place/111+Shady+Ln,+Lexington,+KY+40503/@38.014806,-84.5152347,17z/data=!3m1!4b1!4m2!3m1!1s0x88425b522027436b:0xb10b30a24e854abb>

Food will be hot and ready to eat. Come and go as you please. We will also have lots of Veggie food also no pork present. Yes I will be cooking 2 birds in the oven and I promise I am not experimenting on you.

Let's have a fun time stuffing ourselves. Please bring significant other. Time to meet some new and old members of the lab as well.

No need to bring anything except an appetite.

Please RSVP so we can plan according.

Hope all can come.

Yours, Robin and Hyewon

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Oct 30, 2015

Hi team,

Well we have some updates to keep you informed:

Yue Chen's paper from summer research with Emily, Jacob and Henry was reviewed and the reviewers suggested some textual modifications but no new experiments. Just need to re focus from ecological perspective to more of a physiological one and add some more references. So I feel we will be able to get this accepted with the next revision. **Congrats everyone.**

1. Zhu, Y.-C., Yocum, E., Sifers, J., Uradu, H. and Cooper, R.L. (2015) Modulatory effects on *Drosophila* larva hearts in room temperature, acute and chronic cold stress. (In Revision).

This paper was resubmitted and so far it appears to be accepted. This was a small part of my work with Esther in PT dept at UK. It is a neat study.

2. Jackson, J.R., Kirby, T.J., Fry, C.S., Cooper, R.L., McCarthy, J.J., Peterson, C.A., and Dupont-Versteegden, E.E. (2015) Reduced voluntary running performance is associated with impaired coordination as a result of muscle satellite cell depletion in adult mice (In Revision).

This paper is now in review. Keeping our fingers crossed.

3. Zhu, Y.-C., Uradu, H. Majeed, Z.R., and Cooper, R.L. (2015) Optogenetic drive of heart rate at different temperatures and Ca²⁺ concentrations. (In Review).

Ash's paper was reviewed by the new editor of the journal and he made a few comments for us. Minor changes. I feel this will not be a problem being accepted with the re-submission.

4. Thenappan, A., Dupont-Versteegden, E.E. and Cooper, R.L. (2015). An educational model for understanding acute deep tissue injury of motor units. (In Review).

So not bad this month. Thanks for the team efforts of everyone.

internship to come study in the lab.

This is the same program Sandra Blümich came to us from last summer, but not only that Felicitas is also from Leipzig and attending the same Veterinary School as Sandra.

We are very happy to welcome Felicitas to the group and to Lexington.

We have educational projects, fruit fly and crayfish synaptic projects as well as our citizen science and muscle projects she might be interested in taking part in.

If she is like Sandra get ready to start hiking the outdoor trails around KY. I think she might be a very outdoor person as her attached photo has her on a camel somewhere in Egypt!

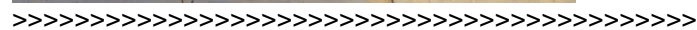
We will make a lab welcoming movie to send to her soon.

Her email is:

Felicitas Koch <felicitas.koch.my@gmail.com>

All the best,

Robin



On Sat, Feb 28, 2015 at 6:45 PM,

Hi lab gang and friends ,

>

> Well we had the regional science fair today .

> This is the one after the county fair .

Conner will primary be working with Cole on acetylcholine (Ach) actions and receptor subtypes in the *Drosophila melanogaster* central nervous system. This will be an interesting project to define receptor subtypes.

Some of the drugs which Cole and Conner will be using are toxic to us humans so when we are using these drugs in the lab we will have to be a bit careful in the lab with food and touching solutions or pipette tips etc... One can always ask if you are not sure.

I know, the dreaded part is the lab safety tests but they now say we have to take it each year.

At least it is on line instead of having to go to a classroom to take it.

So we have **three tests** and each one you can keep taking it until you get it right (100%). Some are kind of confusing how to fill out the information so we can do these in the lab when you have time.

<http://ehs.uky.edu/classes/>

1. **Chemical Hygiene Plan/Laboratory Safety**---- if you are new

Chemical Hygiene Plan/Laboratory Safety (annual refresher) if you did last semester

2. Fire Extinguisher Training

3. Hazardous Waste

Also exciting news is that Ash Thenappan is coming back after defecting for a semester. Her main role will be to teach us all how to play tennis. (I am joking.) She is a tennis pro from "Up North" (Ohio). She is continuing her project from last semester on physiology of injured muscle fibers having an effect on healthy surrounding tissue.

The High school students will be very busy completing their science fair projects for competitions coming up in early Spring. So we might have some mad rushes and late nights in getting their projects ready for presentations.

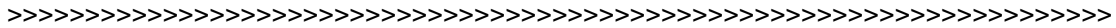
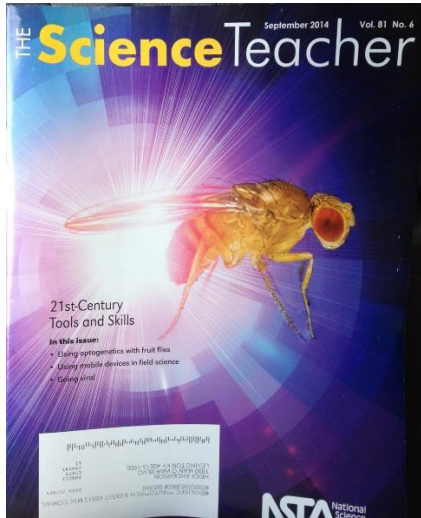
I think I have the lab web pages updated (still need minor tweaks) with everyone's photos so you can share with family and friends.

<http://web.as.uky.edu/Biology/faculty/cooper/StudentsPage1.htm>

OK the big news is TURKEY DAY in coming!!!

So we plan to have a turkey meat and veggies along with all kinds of goodies for a lab Thanksgiving dinner at our home (111 Shady Lane). Which is close to Central Baptist hospital on Nicholasville road as you head away from campus. 8 min bike ride or a 20

The journal editors/production team team the article a cover feature...



May 27, 2014

Good news today.

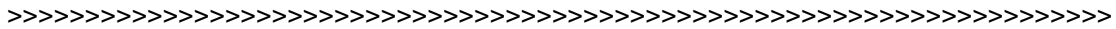
Josh’s paper "Lights and Larvae: Using optogenetics to teach recombinant DNA and neurobiology" will be accepted to “The Science Teacher”. They only wanted minor revisions so easy fix. This is an educational teaching module Josh developed. He ran the activity with our Bio350 students last year as well as a high school class with Dunbar.

Our very own Samuel Wycoff has his photo in paper as well !!!

Congratulations JOSH !!!!!!!!!!!!!!!!

Now off to Oxford soon.... Maybe cooler weather there.

Yours, RLC



May 14, 2014

Dear Current and past lab mates,

GREAT news .

Ellen Burns was accepted to UK med school for next year.

She will also be starting with 2 other past students from the lab
Tania Boyechko and Audra Stacy

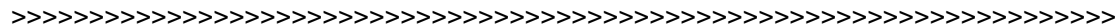
of cool (photo attached).

It was fun to see Kayla again and chit chat. She graduates in 2 weeks !!!
Also so do others in our lab.



Congratulations Kayla, Douglas, Esraa, Madison, Taylor !!!!!!!!!!!!!!!
Maybe there are more so Congrats to all for surviving another semester and good luck with finals.

Robin



April 19, 2014

Hi lab,

We just had the science fair for the junior Kentucky Academia of Sciences. This is an oral presentation
10 min and 5 min of questions. This is state wide and there are various divisions. In total this year there
were 150 students.

Samuel Wycoff placed 1st in Biological Sciences !!!
Congratulations Samuel.

Yours, Robin

