LAB NEWS FLASHES

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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:

Cole Malloy (camall2@uky.edu)
Yuechen Zhu (yuechen.zhu@uky.edu)
Dlovan F.D. Mahmood (dlovan.kurdi@uky.edu)
Samuel Wycoff (samuel.wycoff2@gmail.com)
Rachel Potter (rspo223@g.uky.edu)
Eashwar Somasundaram (evso222@g.uky.edu)
Aya Omar (aya01@bellsouth.net)
Kaylee Hall (kaylee.hall@uky.edu)
Christina Hermanns (cahe237@g.uky.edu)
Jake Higgins (Jake.Higgins@uky.edu)

Tori Hickey <tnhi224@g.uky.edu> (helping with Bio199ers and optogenetics with Zana's class)

Aya Samadi < 20samadia@sayreschool.org > (High School Student)

Jenika Soni (jenikasoni@uky.edu) (on line mentoring)
Jenni Ho <jenni.ho@uky.edu> (helping with Bio199 and Bio395)
La Shay Byrd < lashay.byrd@uky.edu > (Bio199 mentor and Bio395)

Samuel Potter <sjpo223@g.uky.edu>

Andrea Cooper, <andrea.cooper@uky.edu>
Matthew Mattingly mxmatt01@gmail.com
Brittany Slabach bsl223@g.uky.edu (TA for the Bio199ers)
Meaghan Melody <meaghan.melody@uky.edu> (Bio199 mentor)
Crysta Meekins <crysta.meekins@uky.edu> (Bio199 mentor)

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.

We all wish Ash good luck with her Med School interview tomorrow at UK !!!!!
We hope Ash and Samuel (already accepted) will be in the same med school class next year.

Yours, Robin
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5/7/2015

Dear Lab mates,

Many of you know **Samuel Potter.**

Well his paper was just accepted about 1 hour ago for publication as **1st author !**

Potter, S., Krall, R.M., Mayo, S. Johnson, D., Zeidler-Watters, K., and Cooper, R.L. (2015). Population dynamics based on resource availability and founding effects: live and computational models. (In Press, The American Biology Teacher).

And think he is only a junior undergraduate so no telling what accomplishments will come out by the end of next year !

Congratulations !!!!

All the best,
Robin

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4/23/2015

Lab mates,

So now we know about the summer undergraduate fellowships !!!

Both Conner English & Samuel Potter were awarded $2,000 each to continue research over the summer.

Congratulations you two !!!!

All the best,
Robin
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4/22/ 2015

Check out the article in the Herald Leader Newspaper

http://www.kentucky.com/2015/04/22/3813704_while-working-with-fruit-flies.html?rh=1

CONGRATS CLARA !!!!!!!!!!!!!!!!!!!!!!!!!!!!

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4/20/2015

Samuel was awarded the Summer Fellowship from UK from the office of undergrad Research for $ 2,000.

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

It will all go for wedding expenses I am sure !

Yours,
Robin
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4/14/2015

Look what Maddie Sanden from the lab got going !!!
http://www.fcps.net/news/features/2014-15/ukmodules

There is also a part about the muscle project by Michael Schultz

Here is her details on the project
http://web.as.uky.edu/Biology/faculty/cooper/Imaging%20science-Stereology/Home-stereology.htm

and Michael's muscle project

http://web.as.uky.edu/Biology/faculty/cooper/Education-Muscle/Home.htm

and the next one on fly population project by Samuel Potter
http://web.as.uky.edu/Biology/faculty/cooper/Population%20dynamics%20examples%20with%20fruit%20flies/Home-population.htm

Yours, Robin

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04/11/2015

Busy day for some in the lab:

1st. On Univ. of Ky campus was the Jr Kentucky Academy of Sciences (Jr KAS) meeting for High School Students. This is a competition in oral ppt presentation along with a journal report. This morning early Clara de Castro presented her research and won 2nd place in the state within her category. She was also elected to be Vice President of the Jr KAS for this following year.

2nd across town at Dunbar high school the MSTC students had presentations on their science projects for their fellow students, parents and mentors. Samuel Wycoff gave a great 20 minute presentation there.

3rd On the complete opposite side of town in the afternoon, 4th year and beyond graduate students gave presentation to faculty and fellow students. Zana Majeed performed with academic skill and presented the breadth of projects from primary research to educational modules.

Great job you three for wonderful presentations !!!

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02/23/2015

Hi lab gang,

We just had the KY-PHYS meeting (the KY chapter of the American Physiological Society) in Louisville today. Some of our gang presented there.

Everyone did an awesome job !!!

We had poster and oral presentations.

Danielle Middleton won 1st in undergrad division for poster presentation

Our high student Clara de Castro won 1st in the Undergrad division for oral presentation

Middleton, D., Krall, R.M., Zeidler-Watters, K., Johnson, D., Mayo, S., Cooper, R.L. (2015). The healthy flea model: Public health education with 7-12 grades. 3rd Annual meeting of the KY chapter of the American Physiological Society, Sullivan University College of Pharmacy, Louisville, KY. March 23, 2015. * won 1st place in poster presentation

deCastro, C., Titlow, J., Majeed, Z.R., Vaughn, M., King, K. and Cooper, R.L. (2015) Maintaining the Drosophila larval heart in situ: Modulators and stretch activated channels. 3rd Annual meeting of the KY chapter of the American Physiological Society, Sullivan University College of Pharmacy, Louisville, KY. March 23, 2015. * won 1st place in oral presentation

Now I think each will get $100 for an award. So we can ask them for coffee money next time.

Yours, Robin

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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

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The National Science Teachers Association (high school science teachers across the USA use this group)

After publishing an article in their journal they wanted a YOUTUBE clip for their YOUTUBE channel
Samuel Wycoff's photo appeared in the original article (attached).

Josh added one now to the NSTA web site.
You can add some cool comment if you like.
(Recall this is NSTA linked for all sci teachers so behave.)
https://www.youtube.com/watch?v=v-eyw6_GC9M

Thinking about this ..... maybe after each published paper making a short YOUTUBE clip about the paper from the authors would not be such a bad idea.. Good PR for all.

Kind of like our own JOVE articles...

Samples below but we would do ones more like what Josh did for NSTA after the papers:

http://www.jove.com/video/51050/proprioception-tension-receptors-crab-limbs-student-laboratory

http://www.jove.com/video/50631/intracellular-recording-sensory-field-mapping-culturing-identified

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As you know we have a packed lab next semester and exciting on going projects. I am looking forward to the chaos and meant activities. Spring is also a good time to go hiking or play tennis (i.e ASH lessons) when it warms up.

Have a good Thanksgiving and good luck with Final Exams.

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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 minute walk from campus (its close). **We are thinking Nov 21st at 5:30 PM to whenever.**

You don't need to bring anything but an appetite and your significant other. Good time to eat and relax. Maybe Ash can start giving us serving lesions in tennis if we are waiting for food to finish up.

If you can't make this Big Bird eating party we will try to have a Winter Solstice party in December as well.

In the next email I will send out the lab phone and email list which you want to file away in case you need to contact anyone (locked out of building, the crayfish have escaped and they are all over the lab).

Yours, Robin

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"After graduation, Holsopple plans to move to Colorado Springs, Colo., to train at the **Olympic Training Center in preparation for the 2016 Summer Olympic Games in Rio de Janeiro Brazil.** Following the games, Holsopple plans to head back to school and work toward a PhD in sports psychology."

Wow.... "The Olympics" ..... Go Emily !!

Robin

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

Robin

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He just successfully completed his defense today and will graduate this semester. He will start a postdoctoral position at Oxford, England this summer with full funding for 3 years.

Josh completed a B.S. in Chemistry at Marshall University in 2008. Then he went on for a MS in Biology also at Marshall University. He completed his MS in 2010 and researched on “Interactions Between Serotonergic and Dopaminergic Modulation of the Crayfish Lateral Giant Circuit”.

He joined the UK Biology PhD program in 2011 and quickly moved through his course work and passing qualifying exams. After completing the laboratory rotations he rapidly proceeded with his dissertation research and has been successful in publishing most of the dissertation research in multiple manuscripts. A few more papers are in the works to be wrapped up in the next year.

Also during his time as a graduate student he became very involved in helping to develop teaching protocols for the new Neurophysiology course here at UK. Three of the laboratory procedures are now published in video as well as text format in JOVE which helps promote UK and Biology as a neurophysiology entity in teaching in this area. Next week Josh is headed to Cornell University in NY to give a guest lecture and teach lab exercises in their Neurophysiology course, and has been invited to teach this optogenetics lab module at the Faculty for Undergraduate Neuroscience workshop at Ithaca University this summer. He has developed two versions of this exercise, one for undergraduates that has already been beta tested in Bio350 lab at UK and one for high school students that has been tested at Dunbar in Lexington. The latter module is now under peer review for publication in a teaching journal associated with the NSTA (National Science Teachers Association) while the other will be submitted after student feedback data are collected from the Cornell course and FUN workshop.

Josh has been very well liked by the students he taught while a TA for Bio350 (Animal Physiology) and Histology. He has mentored high school students working in the lab as well as numerous Bio395 students. To date, he has 7 peer reviewed publications with new ones in the review process. He has authored and participated on over 40 abstracts since starting his doctoral studies. In his spare time he has dedicated himself to various outreaching activities such as judging at science fairs and helping to teach at middle school science camps.

We wish Josh the best in his overseas postdoctoral studies.

Robin Cooper

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Authors:
Titlow, J.S., Rice, J., Majeed, Z.R., Holsopple, E., Biecker, S., and Cooper, R.L. (2014)

CONGRATULATIONS !!!!!!!!!!!!!!!!!!!!!

-Robin

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...http://www.youtube.com/watch?v=FhTSioqC0WQ There are 5 or 6 Nobel Prize winers which will talk with students and interact with them. This will be held in LA, California this year.

High school students **CONGRATULATIONS !!!!!!!!!!!!!!!!!!!!!!!!!!!**
Great Job.

Yours, Robin

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We will make a short video to send to her welcoming her to the lab.... practice up your German !

Also, more big news. We have a faculty member (professor) coming from South Korea (Korean Military Academy). He is also in the Korean Military !!!
He will be here for a 6 month sabbatical with all expenses paid from the Korean Gov.
His project will also be on synaptic transmission.

Yours,
Robin

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