ANATOMY & CELL BIOLOGY

NEWSLETTER

June 2020

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UPCOMING SEMINARS

Will resume in fall 2020

SAVE THE DATES

PhD Public Lecture June 25th, 2020 Murray Barr Lecture October 23rd, 2020

STAY IN THE LOOP

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ACB Events
Calendar



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ACB Graduate Council







CONGRATULATIONS TO THE GRADUATING CLASS OF 2020

Congratulations to all of our graduating students of 2020. This significant milestone represents the culmination of all of your hard work and the commitment to excellence that is central to all programs in Anatomy & Cell Biology... Read the full article from Dr. Alison Allan here

MSc Graduates

Victoria Agapova
Diana Alexandra Draghici
Mackenzie Fraser Ferguson
Katelyn Stephanie Mottola Marchiori
Kaitlin Marshall
Hannah Mary Rose Roberts
Kevin Santiago
Michelle Woitowich
Liliana Wolak

PhD Graduates

Sarah Chadwick Tim Han

CONGRATULATIONS

Congratulations to Tian Yu (Tim) Han (Flynn Lab) and Sarah Chadwick (Lajoie Lab) who succesfully defended their PhD these entitled "3D Culture Strategies for the Dynamic Pre-Conditioning of adipose-derived stromal cells on decellularized adipose tissue bioscaffolds" and "Regulation of endoplasmic reticulum stress in S. cerevisiae" respectively.





SCHOLARSHIPS, AWARDS & GRANTS

The Department of Anatomy & Cell Biology would like to extend its congratulations to the following student recipients of the **OGS**, **NSERC** and **CIHR** awards:

OGS Award:

Gaji Jaju – Renaud lab Amanda Rampersaud – Renaud lab Brent Wakefield – Penuela lab Jenna Kits – Allan lab Braeden Medeiros – Allan lab Alyssa Moore – Willmore lab

NSERC CGS-D Award:

Victoria Jaremek – Whitehead & Sposato lab Brooke O'Donnell – Penuela lab

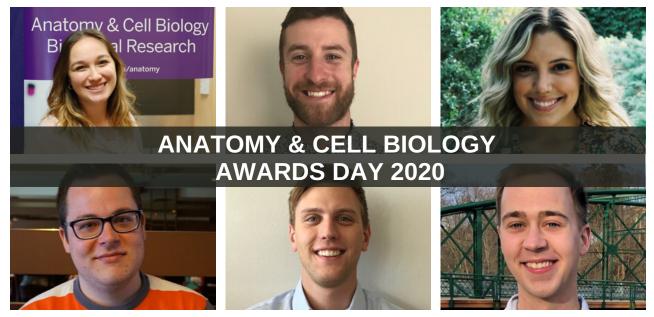
CIHR CGS-M Award:

Salonee Patel – Allman & Whitehead lab Wendy Wang – Whitehead lab William Pinsky – Whitehead & Walton lab Sarah Myers – Whitehead & Sposato lab

CIHR CGS-D Award:

Katherine Quesnel – Berube lab Andrew Deweyert – Drs. Schmid and Hebb

Congratulations go out to all graduate students for submitting outstanding scholarship applications. We are proud of you all.



ACB AWARDS DAY 2020

Congratulations to the following Anatomy and Cell Biology Awards Day 2020 recipients:

Pascal Morrissette- Martin – The Suzanne M. Bernier Publication Award in Anatomy & Cell Biology
Julia Abitbol – The Keith L. Moore Doctoral Award

Jeremi Laski - The Robert C. Buck Master's of Science Award

Hanna Szkudlarek – The Coolen Postdoctoral Scholar Publication Award in Anatomy & Cell Bilogy

Hannah Roberts - The Alan W. Hrycyshyn Master's of Science, Clinical Anatomy Award

Andrew Horne – The Wayne Davis Clinical Anatomy Graduate Prize

Mackenzie Ferguson – Francis Chan Humanitarian Prize

Kaitlin Marshall - The Dr. Khadry Galil Translational Research in Clinical Anatomy Award

Congratulations to Undergraduate students; Peter Lee, HSP Medical Cell Biology and Jing Zhou, Major Medical Cell Biology on being Gold Medal recipients. The Gold Medals are awarded to students with the highest modular average and a cumulative average in the top 10% of students graduating from the program.



SCHOLARSHIPS, AWARDS & GRANTS CONT...

Congratulations to the 2020 Schulich Medicine & Dentistry Internal Graduate Awards recipients, the following students were among them:

Faraj Haddad - Dr. Schmid, awarded a **Jonathan & Joshua Memorial Graduate Scholarship**Salonee Patel - Drs. Allman & Whitehead, awarded a **Jonathan & Joshua Memorial Graduate Scholarship**Mariyan Jeyarajah - Dr. Renaud Nellie awarded a **Farthing Fellowship in Medical Sciences**Mila Uzelac - Dr. Schmid awarded a **Dean's Research Scholarship**

Congratulations to Dr. Charys Martin who was awarded the Hippocratic Council Basic Science Teaching Award 2020

Congratulations to Dr. Shawn Whitehead on recieving the **Alzheimer's Foundation London & Middlesex Premier Research Grant** for his project titled "Detecting Microglia Microparticles in Preclinical Models of Alzheimer's Disease" and **WSS-CIHR Bridge Grant** for his project titled "Targeting gangliosides to improve post-stroke recovery."

CELEBRATING ACHIEVEMENTS



ACHIEVEMENTS REPORT 2020

The 2020 Achievements Report from the Schulich School of Medicine and Dentistry is now available and can be read online here. This year's report includes six stories, one for each of the following categories: Accountability, Research, Education, Care, Diversity and Partnership. Ornela Kljakic, PhD student with the Prado Lab has been featured under Accountability for her outstanding dedication and volunteer work with Frontier College.

https://www.schulich.uwo.ca/communica tions/publications/AchievementsReport2 020/accountability.html





CELEBRATING ACHIEVEMENTS CONT...



FACULTY INTERNATIONAL NEWS

A recent publication regarding Dr. Khadry Galil appeared in a Middle Eastern scientific newspaper late last month. The article speaks about some of Dr. Galill's many achievements, including his surgical glue development and features a photo of him alongside Dr. Murray L. Barr.

The article can be found <u>here</u> in its original printed language or read in its English translation <u>here</u>.

Researchers Studying Longterm Effects of Surgical Glue That Could Replace Stitches

LONDON, ON.—A surgical glue that could replace stitches is being studied at the University of Western Ontario

advantages over conventional sutures, but will be setted for three years to assess its longterm effects, according to the project's principal investigator. The material is a liquid derivative of cyanoscrylate, Dr. K. A. Galil, associate professor of medicine and density, told CANDARA FARMITY PHYSISTRY, told CANDARA FARMITY PHYSISTRY, told CANDARA FARMITY PHYSISTRY, and CANDARA FARMITY PHYSISTRY, and the liquid hardens into a plastic film. When applied to an incision, blood coagulates on the spot and wound edges are held together for five to seven days. "By that time, a new cell layer has built up from below, and the tissue adhesive fails off the way skin layers

The hardened adhesive film also protects the area, keeping bacteria from entering the wound and preventing abscesses which can occur when stitches are used, he added.

Incissons closed with the authesiv heal faster than with sutures because no foreign body enters the wound—th glue rests on the skin, Dr. Galil said. The glue avoids other problems o sutures such as tunnelling and scar ring, he added. Applying the materia

osthesia, he said.

Dr. Galili also pointed out that the method can save time and money be cause patients don't have to return to the cause patients.



Sutures may still be needed for closing deep incisions, he noted. "In deep wounds, we suture in layers. We don't know if superficial application (of the

That use for the adhesive as well as its short and longtern effects will be studied by the UWO researchers over the next three years. D. Galli notes that a similar substance was used to treat soldiers in Vettam..." It did not you will be substance was used to treat soldiers in Vettam..." It did not you will be substance was used to treat soldiers in Vettam..." It did not so that a single effect of course of all of the substance was used to read the substance will be substance to the substance will be substance with the substance will be substa

letely".

Dr. Galil has experimented as

several materials, and is satisfied with the cyanocrylate derivative. In preliminary studies, it has not caused inflammation. To determine what side effects it might cause, Dr. Galli is studying the adhesive on the mouth epithelium of hamsters, which is virtually the same as in humans. The lifespan of the hamster—about one and a half years—"should be sufficient to tell what the longterm effects will

If the hamster testing goes well, Dr. Galil will then study the glue on larger annimals, such as dogs, because incisions in those animals are about the same size as in humans. The final stage of the project is the experimental use of the material in human oral sur-

But he sees many applications for the adhesive beyond oral surgery. "The beauty of this is that it could be used for plastic surgery, and particularly for the face" because there is no scarring. Microsurgery is another possibility: "When you join nerves together, the needle is bigger than the nerve—you share to do some damage.

"We're also thinking about delives ing drugs with it". he added. "For ex ample, if you put medicine on a tongu alcer, it is washed away by the saliva But we may be able to put a drop o afhesive on the tongue and lock it into alco."

Because of its anticoagulant and protective effects, it could also be sold to the public for use in first aid. Dr. Galil has used it in place of a bandage when he cut himself in his laboratory. It should be "very cheap" if produced in here ouserties, be feet.

PRESENTATIONS





A video series featuring outstanding Western University researchers.

Dr. Arthur Brown (pictured left) presented his talk "The optimist's guide to CNS therapeutics" as the final video in the four-part series, Brainstorm: Straight Talk on Concussion. <u>Watch the video here</u>.

Ornela Kljakic presented a poster titled "Motivation and cue-directed effort are regulated by acetylcholine/glutamate co-transmission from striatal cholinergic interneurons" at the 1st Virtual Dopamine Conference (ViDA) which was held on May 20th-22nd.



We want to feature your new publications here!

submit them to anatomy@uwo.ca

J.M. Abitbol, R. Beach, K. Barr, J.L. Esseltine, B.L. Allman and D.W. Laird (2020) "Cisplatin-induced ototoxicity in organotypic cochlear cultures occurs independent of gap junctional intercellular communication" Cell Death and Disease 11: 1-17. https://www.nature.com/articles/s41419-020-2551-8

Martin-Kenny, N. and Bérubé, N.G.(2020) "Effects of a postnatal Atrx conditional knockout in neurons on autism-like behaviours in male and female mice" (2020) Journal of Neurodevelopmental Disorders, in press. https://www.biorxiv.org/content/10.1101/2020.02.05.936260v1

Baines KJ*, Hillier DM*, Haddad FL, Rajakumar N, Schmid S, and Renaud SJ. Maternal immune activation during early pregnancy suppresses neurogenic pathways and dysregulates fetal neural precursor cells in rats. Front. Immunol. 09 June 2020 https://doi.org/10.3389/fimmu.2020.01145

Adrián Varela-Vázquez, Amanda Guitián-Caamaño, Paula Carpintero-Fernandez, Eduardo Fonseca, Samar Sayedyahossein, Trond Aasen, Silvia Penuela, María D. Mayán. "Emerging functions and clinical prospects of connexins and pannexins in melanoma" https://doi.org/10.1016/j.bbcan.2020.188380

ACB SEMINAR SERIES 2020-2021

The ACB Research Committee is looking for speaker nominations for the ACB Seminar Series for the 2020-2021 Academic year. This year the Friday seminars will be held in a virtual format with speakers presenting via Zoom. This allows us the unique advantage of inviting speakers from all over the world without travel or budget restrictions. We encourage all of you (faculty, students and staff) to **nominate 1 speaker**, by completing the <u>nomination form</u>.

ACB Seminar Series Speaker Nomination CLICK HERE

2020 ACB PROMOTION & TENURE

PUBLIC SOLICITATION FOR DR. STEPHEN RENAUD NOTICE TO ALL FACULTY AND STUDENTS

Dr. Stephen Renaud is being considered for promotion to Associate Professor and the granting of tenure, which requires a public solicitation for letters. For more details and if you're interested in providing a written submission please <u>click here.</u>

ACB EVENTS



VIRTUAL TRIVIA NIGHT

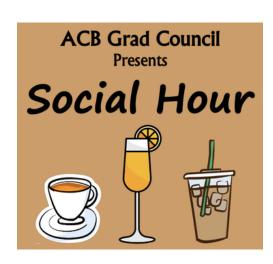
Congratulations to the winner of Triva is not so Trivial pt. 2! It was a very close game with Kelly Baines placing first followed closley by Michele Klaunsner in second. Thank you again to Dr. Tim Wilson for graciously donating the prizes, we hope our winners enjoyed them! Want to play again, or missed out last time? Stay tuned for upcoming dates

GRAD STUDENT SOCIAL HOUR

Kelly Baines and Paige Easnor as part of ACB Grad Council will be hosting social hours on Zoom weekly:

Mondays 3:00pm-4:00pm Thursdays 10:00am-11:00am

These meetings are meant to provide a safe space for ACB Grad Students to express any concerns and to reconnect with peers during this time. Grad students will have received a Zoom meeting ID via email, please reach out to Kelly, Paige or the ACB Admin staff if you need this provided to you again.



ACB GIVES BACK



ST. JOHN'S HOSPITALITY DINNER

St. John's is continuing to serve those in need during the Covid-19 pandemic, and requires the ongoing support of Volunteers to help prepare and serve food at the community dinners. Social distancing measures and precautions are in place to ensure the safety of volunteers and patrons. To register, please add your name to the volunteer sign up sheet by <u>clicking here</u>

