

A collaboration and partnership by the **Cancer Research Laboratory Program (CRLP)** with the **Centre for Translational Cancer Research (CTCR)**, London Health Sciences Centre's London Regional Cancer Program (LRCP), Western University, Schulich School of Medicine & Dentistry and the Lawson Health Research Institute.



IN THE SPOTLIGHT:

Congratulations to the co-recipients of the

WOLRDiscoveries® 2016 Vanguard Innovator of the Year Award

Dr. Eva Turley & Dr. Len Luyt (CRLP)

WORLDdiscoveries® is the technology & business development office for Western University, Lawson Health Research Institute & Robarts Research Institute.

This annual celebration recognizes local researchers for their dedication to innovative research.

It was a great time celebrating **research innovation & excellence** in our community!



Drs. Luyt & Turley of the CRLP
celebrating their prestigious award:
Innovator of the Year!



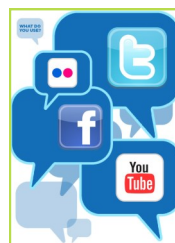
Lisa Cechetto, Executive Director of WORLDdiscoveries
presenting the Innovator of the Year Award.



Dr. Lenn Luyt networking with
Dr. John Capone, Western's
Vice-President of Research.



Dr. David Hill, Scientific Director of Lawson
Research Institute, speaking & presenting the
awards.



Find **WORLDdiscoveries** on
social media:
[@WOLRDiscoveries](#)

& **Dr. Luyt's Lab:**
[@LuytGroup](#)



Dr. Amit Chakma, President of Western University,
recognizing innovative leaders of our community &
highlighting successes of the year!

LOCAL RESEARCH SUCCESS

Congratulations to **London Cancer Researchers** on having been awarded the **Canadian Institute of Health Research (CIHR) Grants from the last Competition:**

Dr. Bhattacharya, Dr. Shawn Li & Dr. Mymryk!

34 projects were funded at Western, LHSC & Lawson Health Research Institute totaling \$30 million over the next 5 years!

Congratulations to members of our Division who were successful:

Dr. Moshmi Bhattacharya on her 5-year grant entitled, "Targeting Triple Negative Breast Cancer: Role of KISS1R"

Dr. Shawn Li on his 3-year grant entitled, "Characterization of a new histone mark in stem cell differentiation"

Dr. Joe Mymryk on his 5-year grant entitled, "Molecular genetic analysis of adenovirus E1A function"

Do **YOU** want to get involved & support local cancer researchers?!

Donors (individuals who donate) help support the outstanding medical minds at LHSC and enable our doctors, researchers, nurses & staff to deliver quality care and perform research that changes and saves lives in our community.

The **London Health Science Foundation (LHSF)** has introduced **donor tours**. These tours provide potential donors with an opportunity to meet & engage with staff, visit different working environments, understand various needs & most importantly get inspired!

If you are interested in **supporting cancer research** and would like to **experience a donor tour**, please contact **Pam Taylor** (LHSF Development Officer) at Pamela.Taylor@lhsc.on.ca or 519.685.8500.58721

Pam also sits on the Management Committee for the Centre for Translational Cancer Research (CTCR). We would like to say **CONGRATULATIONS** on your recent promotion within the LHSF! Her new role is Senior Development Officer! Great work & congrats.

OUR SUCCESS IS YOUR SUCCESS, THANK YOU FOR YOUR CONSIDERATION!

Follow LHSF on Twitter: @LHSFCanada

Congratulations to our Cancer Researchers!

Congratulations to...

- **CIHR Project Grant** entitled, "Identification of acute radiation-induced cardiac toxicity after locally advanced non-small cell lung cancer radiotherapy with hybrid PET-MRI". **PI:** Stewart Gaede & **Co-applicants:** Drs. Alexander Louie, Brian Yaremko, David Palma, Edward Yu, Frank Prato, George Rodrigues and Gerald Wisenberg. Bridge Funding for \$88,750.
- Congratulations **Dr. Fred Dick** for your recent **2016 Operating Grant by the Cancer Research Society** entitled, "Exploiting DNA damage and replication stress to kill osteosarcoma cells". Well done!
- **Lawson Internal Research Fund** entitled, "Differentiating the role of host IDO from tumour IDO in suppressing antitumour immunity". **PI:** Dr. Xiufen Xeng & **Collaborators:** Drs. Saman Maleki Vareki, Weiping Min and James Koropatnick. Amount awarded: \$12,922.50 for two years.
- **Ontario Ministry of Education Student Success Policy Branch** to Dr. James Koropatnick & Mr. Rodger Dusky for "Partners in Experiential Learning (PEL): Providing Cooperative Education to Senior Secondary School Students". Amount awarded: \$150,000 for one year.
- Matthew Mouawad, PhD candidate in Dr. Gaede's lab, and co-supervised by Dr. Neil Gelman, recently received a **Translational Breast Cancer Research Unit PhD salary award** of \$18,000 for one year.

Other Good News from our Researchers...

- Congratulations on two successful PhD Defenses in Dr. Gaede's lab! **Omar El-Sherif**, "Non-Invasive Imaging for the Assessment of Cardiac Dose and Function Following Focused External Beam Irradiation" on June 24, 2016 and **Ilma Xhaferllari**, "Optimizing Respiratory Gated Intensity Modulated Radiation Therapy Planning and Delivery of Early-Stage Non-Small Cell Lung Cancer" on July 13, 2016.
- Congratulations to **Dr. Jerry Battista** on contributions to the important education text **Advances in Medical Physics** recently published. Many of the authors are from LRCP, UWO or Robarts.
- Congratulations to **Dr. Saman Maleki** & his wife on their healthy baby boy, Benjamin!
- Please join Dr. Koropatnick & lab in welcoming their newest staff member **Ronak Zareardalan**, the new Laboratory Technician!

*The CRLP helps train a new generation of
Clinician Scientists!*

Recent News & Updates

Western Graduate Student Scholarships

Dr. Ann Chambers (of the CRLP) is pleased to announce the 13 new graduate student scholarships at Western University for the 2016-2017 academic year!

These awards are supported by the **Breast Cancer Society of Canada's** very generous commitment to the **Pamela Greenaway-Kohlmeier Translational Breast Cancer Research Unit (TBCRU) at the LRCP.**

Seven PhD students and **six MSc students** were selected for awards this year, **congratulations!**

To read more about the projects please follow the TBCRU's blog:

www.bcsc.ca/BLOG

Mini Medical School

Register for Mini Medical School today by visiting Western's website: www.westernconnect.ca

This **informative weekly lecture series** features internationally recognized researchers and faculty members from Western. Each week you will experience a captivating lecture covering a wide variety of topics such as cancer research, dialysis, transgender health issues, spinal cord injury & more!

Our very own **Drs. Samuel Asfaha, David Palma & Aaron Ward** will be lecturing!

Date: October 6, 13, 20, 27 & November 3, 17, 2016

Time: 7:00 - 8:30 p.m.

Location: Talbot College, Western University, Room 141

Ticket price: \$60.00 includes all six sessions and parking in the Talbot Lot

Register by: Thursday, September 29, 2016

2016 President's Award Nominations

At LHSC, staff, faculty & volunteers are given an opportunity to nominate their colleagues for the President's Award. The award recognizes the exceptional work they do!

The 2016 program includes the following award categories:

Community Service, Living Our Core Values, Leadership, Innovation, Physician Leadership.

All staff, physicians, volunteers & administration are eligible for these awards! It is a way to say

THANK YOU!

Oncology Grand Rounds

Oncology Grand Rounds are offered to staff, faculty & trainees as an educational opportunity to learn more about various cancer-related topics. Each week, presenters discuss a unique topic they are

RAISING FUNDS FOR THE CANCER RESEARCH LABORATORY PROGRAM

Thank you for supporting the Cancer Research Laboratories

Neil Johnson;
CRLP Wine Basket
Raffle winner



Gail Howard
CRLP Manager

Gabe DiMattia
Interim Director, CRLP

Thank you to everyone who participated in our annual wine basket raffle. The fundraiser was a huge success! Money raised supports the Cancer Research Laboratory Programs team-building!

The Head & Neck Above Cancer Event

The Head & Neck Above Cancer charity walk began in 2013 by **Kathy Turbucz Poirier**, a head and neck cancer patient at LHSC. She continues to coordinate and support this worthy cause. After the loss of her husband Richard Murray to head and neck cancer, **Phoebe Murray** is now helping coordinate this event. All money raised supports **Head & Neck Cancer Research** at the LRCP.

A TOTAL OF **\$21,746.76** was raised at this years event!



RECENT PUBLICATIONS BY OUR CANCER RESEARCHERS

Majumder, M., Xin, X., Liu, L., Tutunea-Fatan, E., Rodriguez-Torres, M., Vincent, K., Postovit, L., Hess, D., Lala, P. (2016). **COX-2 Induces Breast Cancer Stem Cells via EP4/PI3K/AKT/NOTCH/WNT Axis**. Cancer Stem Cells, doi: 10.1002/stem.2126.

Koritzinsky, M., Koch, C.A., Riley, B., Beauchemin, N., Johnston, G., Johnston, M., Koropatnick, J., Loiselle, C.G., Maslowska, M., McCormick, C., Miller, W.H. Jr, Mulligan, L., Tsao, M.S. **From Solo in the Silo to Strategic Training Programs**. CBE Life Sci Educ. 2016 Spring;15(1):le1. PMID: 27290740.

Salim, K.Y., Maleki Vareki, S., Danter, W.R., Koropatnick, J. **COTI-2, a novel small molecule that is active against multiple human cancer cell lines in vitro and in vivo**. Oncotarget. 2016 May 2. doi: 10.18632/oncotarget.9133. [Epub ahead of print] PMID: 27150056.

Rytelewski, M., Maleki Vareki, S., Mangala, L.S., Romanow, L., Jiang, D., Pradeep, S., Rodriguez-Aguayo, C., Lopez-Berestein, G., Figueredo, R., Ferguson, P.J., Vincent, M., Sood, A.K., Koropatnick, J. **Reciprocal positive selection for weakness - preventing olaparib resistance by inhibiting BRCA2**. Oncotarget. 2016 Apr 12;7(15):20825-39. doi: 10.18632/oncotarget.7883. PMID: 26959114.

Siu, K.S., Zhang, Y., Zheng, X., Koropatnick, J., Min, W.P. **Non-Covalently Functionalized of Single-Walled Carbon Nanotubes by DSPE-PEG-PEI for siRNA Delivery**. Methods Mol Biol. 2016;1364:151-63. doi: 10.1007/978-1-4939-3112-5_13. PMID: 26472449.

Ferguson, P.J., Sykelyk, A., Figueredo, R., Koropatnick, J. **Synergistic cytotoxicity against human tumor cell lines by oncolytic adenovirus dl1520 (ONYX-015) and melphalan**. Tumori. 2016 Jan-Feb;102(1):31-9. doi: 10.5301/tj.5000438. Epub 2015 Sep 30. PMID: 26429639.

Londoner Article via the Research Information Outreach Team entitled, **"Hitting the Bull's-Eye: Hybrid PET/MRI and Radiotherapy of Cancer"** by Stewart Gaede, Matthew Mouawad, Omar El-Sherif and John Patrick. July 21, 2016.

Koropatnick, J. & Dusky, R. **Paving the Way for the Future Through Innovative Training and Research**. June, 2016. Scientia Publications, Inc., www.scientiapublications.com.




Dr. Koropatnick & team (CRLP) collaborated with **Dr. Andrew Nelson (Anthropology, Western)** to grow human tumours in immunocompromised mice.

Doctoral student, **Jennifer Willoughby**, mummified tumor-stricken and healthy mice in an effort to find out how easily identifiable tumors are in mummies!

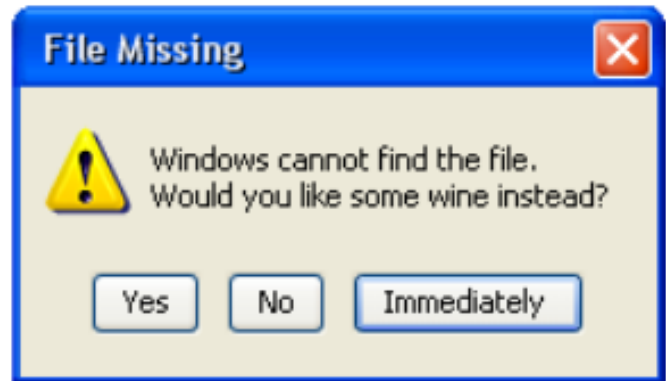
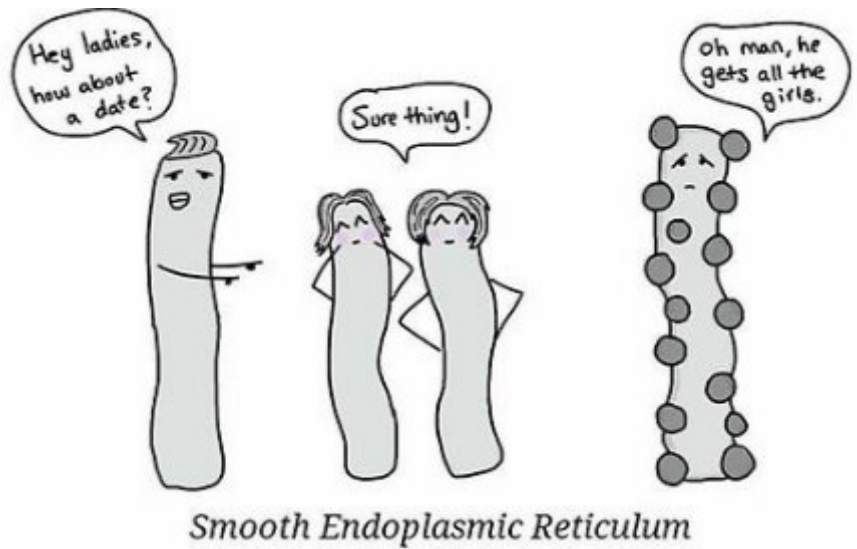
She mummified the mice to generate "experimental mummies" as surrogates that were CT-scanned to detect tumours. Some tumours were either frozen, fixed, sectioned or stained to look at tumour structure and morphology in detail.

A very well-written and informative piece on **Molecular Pathways** by Drs. Adam Rabalski, Laszlo Gyenis and David Litchfield.

This publication appeared in the June Edition of Clinical Care Research and is accompanied by a learning module on the journal website.

Molecular Pathways	Clinical Cancer Research
Molecular Pathways: Emergence of Protein Kinase CK2 (CSNK2) as a Potential Target to Inhibit Survival and DNA Damage Response and Repair Pathways in Cancer Cells 	
Adam J. Rabalski ¹ , Laszlo Gyenis ¹ , and David W. Litchfield ^{1,2}	

MAD SCIENTIST JOKES



Cell-fie

