



# ***DRIVE***

Discovery, Research, InnoVation and Education

**Friday, April 23  
&  
Saturday, April 24, 2021**

**Virtual - Pheedloop  
University of Alberta**



**ALBERTA PRECISION  
LABORATORIES**

**Leaders in Laboratory Medicine**

Friday, April 23, 2021

Pre-recorded poster presentations	
Name	Title
Teresa Kumblathan	An Improved Method for Convenient and Sensitive Detection of SARS-CoV-2 in Saliva and Gargle Samples
Alisa Abozina	Solid-Basaloid Variant of Adenoid Cystic Carcinoma of the Breast: Report of two cases and literature review
Yasmine Rais	Discovery of Prostate Cancer Biomarkers by Immunoaffinity Proteomics
Delaram Dara	Evaluation of Human Endogenous Retrovirus Proteins as Cancer Biomarkers by Immunoaffinity-Mass Spectrometry
Taryn Stokowski	The selective detection of intact <i>shiga toxin-producing Escherichia coli</i> (STEC) cells using an optimized viability PCR (vPCR) protocol
Amy Boucher	Determining the cell-mediated immune response for women with low antibody titers to rubella virus in the Alberta population
Leah Marquez-Curtis	Cryopreservation and post-thaw characterization of an important cell type in the blood-brain barrier
Ruwandi Kariyawasam	One of: COVID-19 Associated Pulmonary Aspergillosis (CAPA) in Critically Ill Patients: A Systematic Review of Cohort Studies or Case Report: <i>Actinotignum schaalii</i> identified in a neck abscess of a pediatric patient
Jiaojiao Xie	Comparative cytotoxicity of DBPs on a normal human cell line SV-HUC-1 to CHO-K1 cell line
Janet Zhou	Selenide increases biliary excretion of arsenic from human HepaRG cells
Karen Hoy	Northern Alberta Wildfires: Comparing Arsenic Species in Freshwater Fish Before and After
Wei (Claire) Feng	One-pot isothermal detection of SARS-CoV-2 RNA using recombinase polymerase amplification and CRISPR technology
Jeffrey Tao	Development of a Telomerase-initiated DNzyme Walker for the Detection of Cancer Cells
Yasser Abuetabh	Regulation of UBE4B and its Role in Response to DNA Damage in Cancer.
Alexa Thompson	Estimating the cost-effectiveness of universal prenatal Hepatitis C (HCV) screening in Canada
Wenhui Li	A small-scale biotinylation method for red blood cells.
JingYang Xu	Extraction and concentration viral RNA from saliva and gargle using poly-T magnetic beads for SARS CoV-2 detection
Amir Hossein Hosseini Akbarnejad	Development of an AI-based Predictor of OncotypeDx Recurrence Score in Luminal-A and B breast cancer patients.
Nicholas Wawryk	Sweetened Tap Water Increases Disinfection Byproduct: 2,6-dichlorobenzoquinone
Huyan Xiao	A CRISPR/Cas12a-mediated colorimetric assay for SARS-CoV-2
Qian Wang	Initial Assessment of Malutilization of Iron Status Testing in Ottawa, Canada and Recommendations for Improved Utilization
Junlang Qiu	Nontargeted Identification of a N-heterocyclic Compound in Source Water and Wastewater as a Precursor of Multiple Nitrosamines
Sophia Peng	Acute myeloid leukemia with mutated NPM1 and Charcot-Leyden crystals: a case series.
Danielle Meunier	Genomic classification of relapsed and refractory acute myeloid leukemia.
Ifueko Adeghe	Performance of the Abbott ID NOW Among Symptomatic Individuals with Confirmed COVID-19.
Parth Patel	Investigating Granulocyte Cryopreservation through Bulk Droplet Vitrification (BDV)
Allison De Guzman	Socio-demographic, personal beliefs, fear of COVID-19, and perception of face masks correlates to adherence to mask handling recommendations in university students
Brianna Grad	Taking hydrogen breath testing to the next level: improving diagnosis of small intestinal bacterial overgrowth syndrome and carbohydrate intolerance
Vivian Le	Rapid identification of NDM-, KPC-, IMP-, VIM-type and OXA-48-like carbapenemase-producing organisms by a multiplex lateral flow immunoassay (NG-Test Carba 5)

Rebekah Rashke	Analytical validation of the DELFIA Xpress placental growth factor (PlGF 1-2-3) assay in maternal serum
Gabrielle Chrysanta	Transfusion indication completion in RBC orders of chronic transfusion recipients (CTR)
Pavel Roman	Disseminating Information About LabWisely on Wasteful Clinical Laboratory Practices to Medical Laboratory Professionals by Podcast
Ashley-Nicole Bailey	Evaluation of commercial assays for the detection of vaccine-induced SARS-CoV-2 IgG and neutralizing antibodies in sera.
Caitlyn Rossing	Escherichia coli O157:H7 prevalence in raw ground bison meat in Edmonton, Alberta, Canada
Chia-Hsun Yeh	Method Evaluation of the Siemens IgG Subclass Assay
Lucia Byron	Verification of Alberta-wide and CSCC derived Canada-wide adult reference ranges for 19 chemistry assays
Kevin Hwang	How far and how long can you go?
Deeanna Saran	Changes in Antimicrobial Resistance (AMR) and Serotype Distribution of Invasive <i>Streptococcus pyogenes</i> and <i>Streptococcus pneumoniae</i> in Alberta from 2009 to 2019
Daisy Xu	Improving the Quality of Cryopreserved Red Cells from Sickle Cell Patients
Christabel Opare	Verification of the Siemens and Diazyme Serum Free Light Chain assays on the Siemens Atellica Analyzer

<b>11:00 – 12:00</b>	<p><b>Keynote Speaker</b>  Dr. John W. Macgregor Memorial Lecture  Title: Diagnostics in a Post-COVID Age  Speaker: Dr. Samuel Sia, Ph.D.  Professor of Biomedical Engineering, Columbia University</p>
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**Saturday, April 24, 2021**

**Session 1: 8:00 – 8:50**

<p><b>Dr. Russ Greiner</b> Towards Patient-Specific Treatment: Medical Applications of Machine Learning</p>	<p><b>Dr. Natalie Marshall</b> Tailoring Public Health &amp; Laboratory Diagnostics to Create an Evidence Based Response to Diphtheria</p>	<p><b>AP Year in Review</b> <b>Dr. Mara Rendi</b> Serious Neoplasia of the Ovary</p>
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**Session 2: 9:00 – 9:50**

<p><b>Dr. Michelle Geddes</b> Trends in Hematopoietic Cell Transplantation</p>	<p><b>Pauline Tomlin</b> The Souvenirs You Did NOT Buy!! Parasitology Cases</p>	<p><b>AP Year in Review</b> <b>Dr. Mara Rendi</b> Endometrial Carcinoma: Grading, Staging, Lynch Testing, Mimics &amp; Subtypes</p>
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**Session 3: 10:00 – 10:50**

<p><b>Cary Shandro</b> Mycobacterium Chimaera</p>	<p><b>Graduate Session 1</b> <b>Steven Kuntz</b> Plagiarism</p>	<p><b>AP Year in Review Dr. Justin Bateman</b> Molecular Biomarkers in Colorectal Cancer: An Overview and Update</p>
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**Keynote Speaker 11:00 – 12:00**

Dr. R. E. Bell Memorial Lecture  
 Title: To Do Well, You Must Be Well: Staying Sane & Ensuring BS in the Age of COVID  
 Speaker: Dr. Peter Brindley, MD FRCPC FRCP (edin) FRCP (lond)  
 Professor of Critical Care Medicine, Medical Ethics,  
 Anesthesiology Attending Physician, Critical Care Medicine  
 Director, Neurosciences  
 ICU University of Alberta  
 Hospital

**Break: 12:00 – 12:59**

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**Session 4: 1:00 – 1:50**

**Dr. Kinga Kowalewska-Grochowska**  
Coyotes in your Backyard: An Emerging Parasite in  
Alberta

**Graduate Session**  
**Lisa Purdy**  
The pandemic is ending? Now what do I do to take  
care of myself while I get my graduate program back  
on track?

**AP Year in Review**  
**Dr. Krista Watson**  
COVID Autopsies – The Edmonton Experience

**Session 5: 2:00 – 2:50**

**Graduate Session**  
**Steven Kuntz**  
Plagiarism

**AP Year in Review**  
**Dr. Mara Rendi**  
Talk-Back Session: Experiences in Teaching, Pathology, and Beyond