

# **Hamilton Health Innovation Check-up: Meeting Minutes**

## **March 2019**

Join our mailing list!

#### **STANDING AGENDA TOPICS:**

- **Guest Speaker Discussion**: insights around the experience and expertise of an invited speaker, focusing on a subject that may be of interest to the broader community
- **Communicate**: share recent successes, upcoming events, innovation pipeline and new products, health innovation trends, etc.
- Collaborate & Accelerate: welcome new members to community, partnership opportunities, discover programming and resources available to the community, discuss market gaps and challenges, learn about potential funding opportunities, new RFPs issued, etc.

Facilitator & Note Taker

Location

Alex Muggah, Director, Synapse Consortium

McMaster Innovation Park,

175 Longwood Dr, 9:00-10:00am

**Next Monthly Check-up:** April 29 | 9:00 – 10:00am | McMaster Innovation Park Please sign up to our mailing list to receive meeting minutes and other important updates.

Finding collaborative partners for health companies and researchers can be difficult. Synapse has created the <u>Health Innovation Partnership Portal (HIPP)</u> to facilitate finding new partners within Canada's leading health research and educational ecosystem located in in Hamilton, Ontario.

Minutes for our monthly check-up meetings are not published and are for reference purposes only. We do our best to ensure all information is accurately portrayed, and that no privileged/private information is inappropriately disclosed. Past meeting minutes can be access through a public Dropbox, using the following <u>link</u>.

For additional information on any subject, to contact a presenter directly, or should you have an adjustment to make to the notes made here, please contact: <a href="mailto:Alex.Muggah@SynapseConsortium.com">Alex.Muggah@SynapseConsortium.com</a>. Updates will be reflected in a revised version of the monthly minutes.

#### Time allotted | 20 Minutes

## Topic: Guest Speaker Discussion

Insights around the experience and expertise of an invited speaker, focusing on a subject that may be of interest to the broader community

### **Guest Speaker Discussion**

#### Guest Speaker(s):

- <u>Jennifer Gauvreau</u>
   Manager, Marketing & Events, Innovation Factory
- Topic: Synapse Pitch Competition
   [presentation slides, available for download in Health Check-up drobox folder]

[the following is a synopsis of the discussion, and has been lightly edited for length and clarity]

#### Introduction

I am the Manager of Marketing and Events at Innovation Factory. And while I'm still new to the ecosystem in Hamilton, I've been enjoying getting to know everyone. As promised, I'm here to talk about the <a href="Synapse Pitch">Synapse Pitch</a> <a href="Competition">Competition</a>. The Competition is delivered by Innovation Factory in collaboration with members of the Synapse Consortium. The competition helps move innovative life science products and services out of the lab and into the market, by pairing up innovators with business and entrepreneurship students, with the goal of attracting innovators and new jobs to Hamilton.

#### Discussion

Since the Synapse Competition was founded in 2014, Innovation Factory has provided over \$250k in cash and prizes. We've worked with 50 companies, and students who have been placed with them, many of which have gone on to raise significant funds and enter into 10 markets.

This year, there were 64 applications from innovators and entrepreneurs from around the province (and a few from overseas – suggesting our digital marketing is working, but operational a bit tricky to support). This was more than double from last year. We have over 20 companies from the greater Toronto area, 16 from Hamilton, and the rest from other regions across Ontario. In addition, more than 50 student applications were received, which was three times last year.

From these applicants, we selected 15 companies, who were teamed up with student(s) and then were offered training in support of their commercialization effort. Each team receive training on how to deliver an executive summary of their innovation/product – delivered by Bay Area Health Trust (John Hands) – and then were tasked with developing a commercialization plan – training delivered by Stryker (Anthony Harrison). Together, the executive summary and commercialization plan were then evaluated by expert judges, who determined the top three companies that would be advanced to the final showcase to pitch their idea.

In the end, <u>Epineuron</u>, <u>NERv</u> and <u>XPAN</u> will be presenting their pitches at the final showcase on March 27<sup>th</sup> (this Wedneseday!). Interestingly, all three companies will be the ones that are pitching represent medical devices.

• XPAN: Xpan is developing novel minimally invasive surgical access instruments (trocars/ports) that aim to increase patient safety, increase surgical efficiency, and reduce hospital costs



## **Guest Speaker Discussion**

- Epineuron is building the world's first electroceutical device engineered to supercharge the nerve and accelerate regeneration. Their technology delivers electrical stimulation that boosts the nerve's natural biochemical process to heal and repair itself when injured.
- : NERv aims to save lives and reduce the risks associated with surgeries by monitoring patient health after a surgical procedure. Can detect post-operative complications in real time reducing time spent on unnecessary followup tests and checkups.

Over 210 have registered to attend the pitch showcase, and participants will have have the chance to listen to a featured keynote from <a href="Peter Robertson">Peter Robertson</a> (Innovation Broker with CAHO). Judges include <a href="Jennifer Hamilton">Jennifer Hamilton</a> (Senior Director, New Ventures (Canada) and Advisor, Impact Investing, J&J Global Community Impact), <a href="Dr Amyn Sayani">Dr Amyn Sayani</a> (Director, R&D Alliances and Real-World Evidence at GSK Canada) and <a href="Dr. Clive Ward-Able">Dr. Clive Ward-Able</a> (Medical Director at Sprout Pharmaceuticals, Inc. Canada).

A ton of people who have to be thanked – everyone from mentors, to judges, to community who provided access. In particular, I would like to thank the cash sponsorship from <a href="McMaster University">McMaster University</a>, <a href="McMaster University">Mohawk College</a>, <a href="McMaster University">McMaster University</a>, <a href="McMaster University"

I would like to finish by posing a few questions to this group to help Innovation Factory consider how we can In order to I had some questions for all of us:

- Way we can elevate and grow this competition
- How can we reach more students
- How can we reach more researchers and innovators

## **Question & Answers**

Question: Are there other of pitch competitions that you're competing with?

Know that Western has a research competition, focused on earlier stage and there is HealthKick at MaRS.

We don't have one in Kitchener Waterloo – with startups receiving support through the Velocity anchor programs (e.g., faculty of engineering). In general, our past experience shows that to successfully engage undergrads and graduates, you want to find them in 3<sup>rd</sup> year (tee up participation in 4<sup>th</sup> year). Graduate level students, after completing PhD qualification, tends to be stronger in this space – and anecdotally, connections at the department level with the associate dean of graduate studies tends to be most impactful.

Through conferences and events, there is an opportunity to connect directly with promising companies. For example, the MedEdge Conference led by VentureLab (held in June) attracts healthtech and medtech companies, many of which are sent by the Regional Innovation Centres who are looking to showcase their best clients. Also at MedEdge are representatives from hospitals – iF and the Synapse Competition should have a presence there.

**Question**: What was the continuum of companies that applied?

None of the companies were students with an idea, though many are at an early stage of their commercialization path. There may be room for a student award – though the Forge has an annual student competition, and we



## **Guest Speaker Discussion**

offer \$100k in cash prizes. This is only open to McMaster University Students, for everything from ideas through to fully formed companies. For some of our finalists – we're definitely keen on sending them on to Synapse

That said, there is a range in terms of what companies might need. For some, they need basic advice and guidance, while others need more tailored support, and there are others who just need money to accelerate their well-defined plans.

Thus, there might be merit in breaking applicants into sub-categories. This might allow for meaningful comparison (both for judges), but also enable for growth of the Competition, with prizes tailored based on their stage (e.g., pre- vs. post-revenue)



#### **Hamilton Health Innovation: Calendar Highlights**

Check out Synapse's online calendar

#### <u>March</u>

- Mar 26-27: Clinical Trials Conference 2019 (CTO)
- (Innovation Factory)
- Mar 27: Health Ecosphere Innovation Pipeline Project: Wrap-up Event (code 1252, Southlake & YorkU)
- Mar 27: SITE VISIT RBC Ventures visiting Hamilton (Synapse)

### <u>April</u>

- Apr 1: Meet the Health Pros (Communitech)
- Apr 1: BioBreak (Canada BioBreak)
- Apr 1-5: Toronto Health Innovation Week (TOHealth!)
- Apr 3-4: <u>Canada's MedTech Conference</u> (MEDEC)
- Apr 3-6: Sages 2019 (SAGES)
- Apr 5: BDC Engage Program (McMaster University)
- Apr 5: Clinical Trials Lunch & Learn (CTO)
- Apr 10: Inclusive Innovation Workshop for Entrepreneurial Support Organizations (Tefler)
- Apr 24: McMaster McMaster Medical Student Research Day (McMaster)
- Apr 28 May 11: McMaster Emerging Health Leaders Program (McMaster Health Leadership Academy)
- Apr 29 May 3: <u>Hamilton Health Innovation Week</u> (Synapse)
- Apr 29: <u>Hamilton Health Check-up</u> (Synapse Consortium)
- April 29: The Driving Forces Shaping the Future of Canadian Health Care (Health Leadership Academy)
- Apr 30 May 1: Health Entrepreneur Bootcamp (Veolocity, The Forge & Synapse)
- Apr 30 May 1: Healthcare Investor Conference (Bloom Burton)
- Apr 30: NeuroXchange Conference 2019 (NeuroXchange)

#### May

- May 2: Using Medical Data to it's Full Potential (JLABs Workshop @ Innovation Factory)
- May 2: <u>Hacking Health Hamilton Meetup</u> (Hacking Health Hamilton)
- May 8: Technology & Future of Healthcare 2019 (Hamilton Academy of Medicine)
- May 10: Medical Imaging Informatics and Teleradiology Conference (MIIT)
- May 13-14: OCE Discovery
- May 16: Canada-US Cross-Border Innovation Corridors: Cascadia and the Great Lakes Region
- May 26-29: Call for Abstracts: e-Health Conference and Tradeshow (Digital Health Canada)
- May 26-29: eHealth Conference 2019: Health Canada's National Conference & Tradeshow (ICS)
- May 27: <u>Hamilton Health Check-up</u> (Synapse Consortium)

#### June and Beyond

- June 3-6: <u>BIO International Convention</u> (Biotechnology Innovation Organization BIO)
- Oct 4-6: Body Peace 2019 (Body Brave & NIED)
- Fall: Apps for Health (Mohawk College)



# TIME ALLOTTED | **20 MINUTES**

## Topic: Communicate

Recent successes, upcoming events, innovation pipeline, new products, health innovation trends, etc.

Discussion	Presenter
Melissa Farrell named new President of St. Joseph's Healthcare Hamilton	Alex Muggah (Syanpse)
After an extensive selection process that drew candidates from across the country, Dr. Tom Stewart, President and CEO of St. Joseph's Health System and Sonny Monzavi, Chair of St. Joseph's Hamilton Joint Boards of Governors, are pleased to announce the unanimous selection of Melissa Farrell as incoming President of St. Joseph's Healthcare Hamilton. She will assume the new position April 29, 2019.	(Sydiff)3C)
Ms. Farrell is a health system leader who currently serves as the Assistant Deputy Minister, Acute and Emergency Health Services, within Ontario's Ministry of Health and Long-Term Care where she leads the government's acute care strategy and policy direction for a \$20 billion portfolio. In this role, she has been responsible for a number of highly complex change initiatives across every sector in the provincial health system including acute care, community care, primary care and long-term care. Ms. Farrell is well known and highly regarded for her dynamic and collaborative leadership style and ability to manage and deliver transformational results.	
GERAS announced that the Ably Bed Project has completed phase 2 focus groups.	Alex Muggah
Thanks to participants and partners for helping to fine-tune the potential interface. Learn more about the project here: <a href="https://gerascentre.ca/ably">https://gerascentre.ca/ably</a>	(Synapse)
iF Clients have raised over \$200M in funding	Jennifer Gauvreau (iF)
Innovation Factory (iF), Hamilton's regional innovation centre celebrates a new milestone with clients raising over \$200 Million in funding. Since 2010, Innovation Factory has been accelerating the success of start-ups, providing business services, training and mentorship to help increase revenues, attract investment and create jobs.	Gadvicaa (ii )
Enhanced Medical Nutrition's (EMN) recent \$1.2 Million seed funding announcement in February, 2019 helped tip the scales past the \$200 Million mark. EMN, a medical nutrition company that helps patients prepare and recover faster from surgery, announced their funding led by several prominent angel investors and leading medical device distributors.  Later in that same month, MedStack, a compliance solution for healthcare apps, announced a \$2.4 million oversubscribed seed round led by Telus Ventures, with participation from ScaleUP Ventures and Panache Ventures.	
Innovation Factory clients such as <u>Nix Colour Sensor</u> , <u>Advanced Theranostics</u> , <u>Weever Apps</u> , and <u>Mariner Endosurgery</u> were among many of the other ventures to acquire considerable funding, assisting in the achievement of this notable milestone.  To read more click <u>here</u>	
A glimpse into the future of health care in Ontario (Toronto Star)  St. Joseph's Healthcare, Hamilton was featured in the Toronto Star, with an example that weas	St. Joseph's Healthcare



# Discussion Presenter cited as providing a glimpse into the future of health care in Ontario, as Health Minister Christine Elliott envisions it. Earlier this week, she announced a massive reform of the health system. Described by observers as the biggest change since medicare was created 50 years ago, the overhaul will see the creation of a super agency known as Ontario Health. Twenty smaller agencies will be dissolved and their functions absorbed into Ontario Health. Up to 50 teams will be formed of health workers from various sectors, including hospitals, home care, long-term care, primary care and mental health care. The sectors have a reputation for being siloed. The weakest parts of the health system are the transfer points between them. Hand-offs can be bumpy and patients can fall between the cracks. Requisitions for ongoing services don't always get passed along in a timely fashion. Sometimes it seems like they don't get passed along at all. Patients, still feeling unwell, can be left to navigate their own way through the Byzantine health system, which is a world unto itself with a seemingly foreign language full of acronyms and jargon. Because Ontario is not as far along as it could be when it comes to electronic medical records, it can take days for updates to get transmitted between providers. When care is delayed, patients' health can deteriorate, families can panic and unnecessary trips can be made to the emergency department. Elliott told a news conference that the overall intent of her plan is to make the system easier for patients to navigate by "seamlessly" connecting sectors and making greater use of digital tools. Critics of the government's plans say they are overkill and are worried that the health system could be destabilized while "radical" changes are made. That has been the experience of other provinces that have gone this route, they note. They argue that this much change is not necessary for the Conservative government to make good on election campaign commitments to end hallway medicine, open more long-term care beds and create more mental health and addiction services. Following Elliott's Tuesday announcement, the Star followed up with her office to get a better idea of what her reform plans would look like on the ground. It was suggested we take a look at St. Joseph's Healthcare in Hamilton, specifically at its Integrated Comprehensive Care (ICC) program in which Lewis was a patient. The program started as a pilot back in 2012. Known then as the "bundled care" program, it was designed to connect surgical patients with a single team of clinicians who could care for them before, during and after their operations. To date, more than 17,000 patients have gone through St. Joe's ICC program. In addition to thoracic surgery patients such as Lewis, they include patients who have had hip and knee replacements, suffered from chronic obstructive pulmonary disease and heart failure, undergone cardiovascular surgery and been on peritoneal dialysis.

It has resulted in a savings of up to \$4,000 per patient, a 30 per cent reduction in emergency department visits and 30 per cent reduction in hospital readmissions, a savings of more than

30,000 bed days and an increase in patient satisfaction, according to the hospital.



Discussion	Presenter
St. Joe's is in the process of expanding it to all surgeries and some ER patients. There are plans to further expand it to mental health and long-term care patients, and to frail seniors in their homes. Elliott would like to see this type of program emulated across the province.	
To read the full article, click <u>here</u>	
Hamilton researchers say they've discovered how bacteria become resistant to antibiotics	Leigh Wilson
Maikel Rheinstadter, left, a physics professor with McMaster University in Hamilton and Andree Khondker, an undergraduate biochemistry student, say they have discovered how bacteria fight off antibiotics, which they say raises hopes of figuring out how to combat the growing antibiotic resistance problem JD Howell,McMaster University via The Canadian Press	(MILO)
Hamilton researchers say they have discovered how bacteria become resistant to antibiotics, a finding they say could help combat the growing problem.	
Maikel Rheinstadter, a physics professor with McMaster University, and Andree Khondker, an undergraduate biochemistry student, said they found bacteria fight off antibiotics by stiffening their cell membranes and changing the barrier's electrical charge, becoming a less attractive target to the drugs.	
"We've developed a technique that we could see how the antibiotics are trying to stab the bacterial cells," Rheinstadter said of the research, which was recently published in Nature Communications Biology.	
The team focused on polymyxin B, an antibiotic used when all other antibiotics have failed. A few years ago Chinese researchers discovered a gene that allows some bacteria to become resistant to the powerful drug.	
Read the full Spectator article <u>here</u>	
The Research Institute at St. Joe's 2018 Annual Report	Alex Muggah (Synapse)
Each year, the Research Institute of St. Joe's, Hamilton publishes an annual report to highlight how research at our hospital impacts the science of medicine and the lives of patients around the world. This year's report explores regional and international collaborations, state-of-the-art treatment techniques, new ways of thinking about cardiovascular disease, the vision of the Urological Oncology Research Centre, and even the science of research design.	
St. Joe's logs a Canadian first by entering the world of robotic orthopedic surgery	Alex Muggah (Synapse)
Our very own Dr. Anthony Adili and orthopedic team have successfully completed Canada's first robotic knee replacement surgery by using the MAKO Robotic System. This robot will allow more patients to undergo partial knee replacements rather than full replacements because of the greatly enhanced precision it provides skilled surgeons.	(Synapse)
France and Hamilton team up to study depression	Alex Muggah (Synapse)
St. Joseph's Healthcare and McMaster are collaborating with the Pasteur Institute to embark on a new area of study that could provide new and improved treatment options for patients. This opportunity provides St. Joe's and McMaster greater access to basic science research.	(Synapse)



Discussion	Presenter
CCAB announces creation of new brain cancer therapeutic company, Empirica Therapeutics	Alex Muggah (Synapse)
TORONTO, Feb. 20, 2019 (GLOBE NEWSWIRE) The Centre for the Commercialization of Antibodies and Biologics (CCAB) today announced a license agreement with Empirica Therapeutics Inc. aimed at developing new treatments for one of the deadliest forms of brain cancer, glioblastoma.	
Glioblastoma (GBM) is an aggressive brain cancer that, even with the best current standard of care – which includes surgery, radiation treatment and chemotherapy – has a median survivorship of only 14 months. "Glioblastoma is an unforgiving disease because it always comes back," said Dr. Sheila Singh, co-founder and CEO of Empirica Therapeutics. "We need to look at new ways of helping these patients because current therapies are failing them."	
Empirica Therapeutics will lead the clinical development of novel therapeutics for GBM. The new company was formed in a partnership between CCAB and collaborators at McMaster University and the University of Toronto. Empirica Therapeutics' lead candidate targets CD133 that is highly expressed in certain GBM cells and can potentially lead to GBM recurrence. Empirica has developed a novel CD133 immunotherapy based on the CAR-T modality that has shown promising results in pre-clinical models of GBM. This is the first product in Empirica's pre-clinical pipeline. The company is looking to identify additional targets that can broaden applications in brain tumours and other cancers.	
Dr. Singh is a professor of surgery and biochemistry at McMaster University in Hamilton and the former division head of neurosurgery at Hamilton Health Sciences. She holds a Senior Canada Research Chair in Human Brain Cancer Stem Cell Biology.	
Mariner's LaparoGuard Lands at Hamilton General Hospital	Mitch Wilson (Mariner)
Mariner Endosurgery, an innovative Canadian medical device company leading commercialization of computer-assisted surgical tools, is pleased to announce that Hamilton General Hospital is the first hospital in the world to acquire Mariner's LaparoGuard technology. LaparoGuard provides an innovative solution of augmented surgical visualization, advanced imaging, navigation and informatics, all designed to improve the safety profile of minimally invasive procedures.	(Warmer)
LaparoGuard will be used by the team led Dr. Niv Sne at Hamilton General Hospital. Dr. Sne is a trauma surgeon with Hamilton Health Sciences and Associate Professor of Surgery at McMaster University proficient in advanced laparoscopic cases. He is also the principal investigator for the LaparoGuard clinical trial at the Hamilton General.	
To learn more, read the full article <u>here</u>	
Hamilton Health Sciences Insert in Globe and Mail	Ellie Stutsman
Hamilton's leading healthcare provider in conjunction with McMaster University are unlocking a healthier future for their communities. Click below to see full publication published inside To read the full insert, that was in the Globe and Mail Newspaper, click <a href="here">here</a>	(HHS)



Discussion	Presenter
Life Sciences Ontario (LSO) is proud to announce the release of the 2019 Sector Report, a study of the economic contribution and forecasted impact of the life sciences sector in Ontario conducted by Deloitte. It finds that Ontario needs to shift the focus to value-based, evidence-based innovative sectors that have high growth potential and can create high-quality, high-paying jobs.	Life Sciences Ontario (LSO)
Key Facts:	
<ul> <li>Ontario's life sciences sector generated an estimated \$56.8 billion in revenue, making it a significant economic driver in the province.</li> <li>Jobs in the life sciences sector typically have a greater earning capacity, as evidenced by wages that are 24 percent higher than the provincial average.</li> <li>There were an estimated 6,140 life sciences establishments in Ontario; approximately 80 percent of these were in the Medical Device and Equipment or Research, Testing and Medical Laboratories segments.</li> <li>An estimated employment of nearly 90,000 is supported by Ontario's large and vibrant life sciences sector.</li> <li>Approximately \$5.5 billion in wages was generated by Ontario's life sciences sector employment.</li> <li>The economic activity of the sector supports \$31 billion in output from other industries due to indirect and induced contributions and close to a further 100 000 positions.</li> <li>Clinical Trials Ontario Conference 2019 (March 26-27, 2019)</li> </ul>	
The dates for the 2019 CTO conference have been set. Clinical Trials Ontario is an independent not-for-profit organization established with support from the Government of Ontario. Our mandate is to provide a streamlined approach to conducting multi-centre clinical trials in Ontario, while maintaining the highest ethical standards for participant protection.	
Synapse Life Science Competition: Pitch Competition (March 27)  The Synapse Competition is Ontario's premier life science pitch competition and is dedicated to fostering the commercialization of innovation in the life science sector. Delivered by Innovation Factory, in collaboration with the Synapse Consortium, this competition assists innovators, scientists and researchers to bring their ideas to market, increase revenues, attract investment and create jobs.  To register to attend, please click here  Synapse Competition	Alex Muggah (Synapse)



Discussion	Presenter
Health Ecosphere Innovation Pipeline Project: Wrap-up Event (March 27)	York University
Health Ecosphere (program run by York University and Southlake Hospital) is having a wrap-up event to acknowledge the support of the Federal Government and celebrate successes of the projects this funding has made possible.	,
RSVP at <a href="http://www.yorku.ca/advancement/rsvp/index-old.php">http://www.yorku.ca/advancement/rsvp/index-old.php</a> , using code 1252	
MGDII Innovator Series: Market Research, Patent Searches and Target Product Profiles (Mar 28)	Sarrah Lal (MDGII)
Operating out of the Michael G. DeGroote School of Medicine at McMaster University, the Michael G. DeGroote Health Innovation, Commercialization & Entrepreneurship (MGDII) aims to accelerate the exploration of health innovation opportunities and creation of socioeconomic impact.	(
Upcoming Innovator Series Events:	
<ul> <li>Market Sizing and Developing User Personas         APRIL 11   12 - 1 PM   Register here</li> <li>Compelling Value Propositions: Pitching to Different Audiences</li> </ul>	
APRIL 18   12 - 1 PM   Register here  Meet the Health Pros (April 1)	Jacob George
Attend the second ever Meet the Health Pros event at Communitech on Monday, April 1, 2019 from 3:00 PM to 9:00 PM. Meet the Health Pros is an event for MedTech companies to engage directly with health professionals to explore potential advisory relationships, due diligence assistance, and networking opportunities.	(Communitec h)
The goal of these sessions is to provide companies with 1:1 time to pitch their technology and then discuss with the health professionals to potentially collaboration opportunities.	
The structure of each 40-minute session is as follows:	
<ul> <li>Company Pitch - 10 minutes</li> <li>Validation Discussion - 30 minutes</li> </ul>	
Our Ask: We would love for health professionals such as yourself or any of your colleagues to attend this event. Feel free to introduce me to any contacts you may find appropriate for this event. Please register for the event using our form <a href="here">here</a> . Be ensured that your information will not be disclosed publicly without your consent.	
BioBreak (April 1)	Ella Korets- Smith (TO
TOHealth is co-hosting a great Life Science networking event for high level execs in Life Sciences, BioBreak, for the first time in Canada. Canada BioBreak, an exclusive network of biotech, pharma, medtech, diagnostic and venture capital executives. Its free but companies need to be approved to join. This is an event that happens regularly during JPM and BIO, so a well known group, first time in Canada.	Health!)
	<u>.l</u>



Discussion	Presenter
Event is in Toronto, and a great opportunity to meet with some of the leading CEOs, Venture	
Capitalist and Heads of BD in the life science community.	
SAGES 2019 Conference (April 3-6)	Alex Muggah
	(Synapse)
The mission of the Society of American Gastrointestinal and Endoscopic Surgeons is to improve	
quality patient care through education, research, innovation and leadership, principally in	
gastrointestinal and endoscopic surgery. This annual conference will be held in Baltimore	lanaifan Cuana
BDC Engage Symposium (April 5)	Jennifer Crane (BDC
The purpose of the symposium is to celebrate the learning and achievements of the Biomedical	Program)
Discovery and Commercialization (BDC) students at McMaster. We expect to have	i rogram,
approximately 150 guests at this event including students, faculty members and community	
partners. Those interested should contact the BDC program coordinator no later than March	
22 <sup>nd.</sup>	
For more information, places contact leavise. Comment and it Comments	
For more information, please contact Jennifer Crane: <a href="mailto:crane]1@mcmaster.ca">crane]1@mcmaster.ca</a> <a href="mailto:Clinical Trials Lunch &amp; Learn">Clinical Trials Lunch &amp; Learn</a> (April 5)	Andrew Haller
Cillical Trials Editor & Learn (April 3)	(CTO)
Clinical Trials Ontario in partnership with Women's College Hospital Institute for Health System	(6.6)
Solutions and Virtual Care (WIHV), St. Michael's Applied Health Research Centre (AHRC),	
TOHealth!, and University of Toronto's H2i is hosting a lunch educational event discussing	
clinical trials. What is a clinical trial? Do you need one? What resources exist to help you run	
one? These are all questions we will answer with presentations and a panel of local experts who	
represent the organizations who are here to help. The event will be a great chance for start-up	
companies to learn what resources are available to support their clinical studies, and exactly the cost and time it takes to do clinical research.	
Inclusive Innovation Workshop for Entrepreneurial Support Organizations (April 10)	Karen
( p. 1. 20)	Linseman-
This half-day workshop is targeted at leaders of entrepreneurship & innovation support	Brown
organizations in Hamilton and surrounding areas. The aim is to identify action strategies that	(Innovation
create inclusive support services for diverse groups of women entrepreneurs. Participants will	Factory)
learn about good practices, and have the opportunity to discuss insights and experiences with	
peers. A sneak preview of research from the Ontario Inclusive Innovation (I2) Action Strategy will be shared.	
will be shared.	
This workshop is hosted in partnership with The Innovation Factory. This workshop will be led	
by <u>Barbara Orser</u> , professor at the Telfer School of Management, University of	
Ottawa, <u>Catherine Elliott</u> , professor at the Telfer School of Management, University of Ottawa,	
and Wendy Cukier, professor at the Ted Rogers School of Management, Ryerson University.	
McMaster McMaster Medical Student Research Day (April 24)	Alex Muggah
Over the past four years, many MACMED students have been involved in all times of recently	(Synapse)
Over the past few years, many MACMED students have been involved in all types of research activities. The McMaster Medical Student Research Day (MMSRD) is the day where culmination	
of all research and scholarship efforts are presented to peers to highlight the achievements and	
accomplishments of students. below, you will find abstract booklets from previous MMSRD by	
year, and we will be adding highlights of student achievement on an ongoing basis, so stay	
tuned. To learn more, or to attend, click <u>here</u>	



Discussion	Presenter
McMaster Emerging Health Leaders Program (McMaster) (April 28-May 11, 2019)  The Emerging Health Leaders (EHL) Program is a two-week program to become a better leader life-altering experience that will challenge your thinking and push you to become a better leader! If you are a student or young professional seeking to make a difference in the health landscape, enhance your leadership capabilities, and give yourself an edge when entering the world of work— EHL is the program for you!  Apply to take advantage of the Early Bird rate for Spring & Summer 2019 offerings of the program. EHL is an interdisciplinary program, welcoming students from all programs and faculties. Enrolment is limited. For more information, click <a href="here">here</a> .	Alex Muggah (Synapse)
The Driving Forces Shaping the Future of Canadian Health Care (Apr 29)  Join a panel of industry experts as they parse the findings of the Health Leadership Academy's forthcoming white paper.  The discussion will delve into the forces shaping the health landscape and how we can best prepare emerging leaders to deliver change, no matter what the future holds.	Health Leadership Academy
<ul> <li>Rick Hackett (moderator), McMaster Professor   Canada Research Chair of Organizational Behaviour &amp; Human Performance</li> <li>André Picard, Health Columnist, The Globe and Mail</li> <li>Teresa Chan, Assistant Professor, Division of Emergency Medicine, Department of Medicine, McMaster University</li> <li>Shannon MacDonald, Managing Director, Accenture</li> <li>Greg McQueen, Lead Facilitator, Emerging Health Leaders Program, Health Leadership Academy</li> </ul>	
Health Entrepreneur Bootcamp (April 30 – May 1)  The Forge (Hamilton), Velocity (Kitchener Waterloo) and Synapse is proud to announce that a small group of pre-seed HealthTech entrepreneurs will have the opportunity to spend two intensive days getting their burning questions answered and networking in the health innovation ecosystem.  We will cover: health economics, regulatory pathways, raising capital, IP strategy, quality and risk management. You will meet clinicians, hospital administrators, investors, and other	Alex Muggah (Synapse)
<ul> <li>HealthTech start-ups. Confirmed speakers include:</li> <li>Andy Haigh (Chief Operating Officer, Adapysn Bioscience)</li> <li>Adrien Cote (Science Lead and Business Advisory, Velocity)</li> <li>Peter Robertson (OCHIS Innovation Broker, Business Advisor, CAHO)</li> <li>Ane Solesvik Oppedal (CEO, Ably Medical)</li> <li>Katie Porter (Director of Research Administration, Hamilton Health Sciences)</li> <li>Jonathan Bramson (Founder, Triumvira Immunologics / Vice Dean of Research, McMaster University Faculty of Health Sciences)</li> <li>Gail Martin (Executive Director of the Research Institute of St. Joe's Hamilton)</li> </ul>	



Discussion	Presenter
	Presenter
<ul> <li>Puneet Seth (Chief Medical Officer, Input Health)</li> <li>Kim Elliot (Co-Founder and Chief Operating Officer, VoxNeuro)</li> </ul>	
, , , , , , , , , , , , , , , , , , , ,	
Steve Lemonius (Consultant, Affective Team Dynamics)      Jack Iranstone (President Iranstone Predict Development)	
Joel Ironstone (President, Ironstone Product Development)  Targe Wasser (Engineering CRR)	
Taras Worona (Engineering CPR)  Andrew Martinle (Co. Founder Surgery)	
<ul> <li>Andrew Martinko (Co-Founder, Suncayr)</li> <li>Sandy Schweger (CEO, m-Health Solutions)</li> </ul>	
Alexa Roper (CEO, Penta Medical)	
Alexa Roper (CLO, Ferita Medical)     Anand Ganeshalingam (Associate, IGAN Partners)	
Hadi Salah (Director, Strategy & Partnerships, RBC Ventures)	
Tradi Salah (Director, Strategy & Fartherships, NDC ventures)	
To learn more, or to participate, go to the <u>website</u> or please contact Monika	
<monika@theforge.mcmaster.ca>, Adrien <adrien.cote@uwaterloo.ca>, or Alex</adrien.cote@uwaterloo.ca></monika@theforge.mcmaster.ca>	
<alex.muggah@synapseconsortium.com></alex.muggah@synapseconsortium.com>	
Discuss Durchard Haralth constitution for Co. (A. 1100 May 1)	A1 2.4
Bloom Burton Healthcare Investor Conference (April 30-May 1)	Alex Muggah
	(Synapse)
Bloom Burton hosts its annual Healthcare Investor Conference in Toronto, Canada. We host	
approximately 60 of Canada's premier publicly-traded and venture-backed private companies	
together with the most promising pre-venture companies in the healthcare industry.	
The event attracts Canadian, U.S. and International investors who are interested in the latest	
developments in Canadian healthcare companies. Investors have the opportunity to obtain	
corporate updates from presenting companies, and participate in our 1-on-1 meeting system	
with company management.	
Technology & the Future of HealthCare Conference (May 8, 2019)	Dennis
This is the inaugural Technology & the Future of Health Care Conference, the first of it's kind	DiValentino
designed for forward-thinking front line health care providers who recognize the requirement to	(Hamilton
integrate technology into their practice.	Academy of
	Medicine)
The conference seeks to define and understand digital health as front line providers, obtain	
relevant information which aids in guiding our delivery of health care, and identify health care	
challenges that may have digital solutions. We hope you join us on May 8th, as we will learn	
what technologies can be incorporate into practice right away and what is coming next in the	
future of health care. Check out the schedule <u>here</u>	
Medical Imaging Informatics and Teleradiology Conference (May 10, 2019)	(MIIT)
	, ,
The Hamilton-based Medical Imaging Informatics and Teleradiology (MIIT) conference focuses	
on emerging technologies and practices for acquiring, processing, managing, accessing, and	
sharing medical images, along with topics driving changes in relevant policies within Canada.	
This annual conference brings together experienced speakers to address challenging topics in	
the field of medical imaging informatics and provides a unique opportunity to approach the	
experts and find answers to questions and issues.	
The MIIT Conference is intended for an audience of professionals and students in engineering	
and computer sciences, health informatics (PACS Managers, DI Managers, IT Professionals,	
CIO/CTOs), health care provider (Radiologists, Technologists, Physicians), and industry roles.	



Discussion	Presenter
To learn more, visit the <u>conference website</u>	
OCE Discovery (May 13-14)  Discovery is Canada's leading innovation-to-commercialization conference. Hosted by Ontario Centres of Excellence, Discovery brings together key players from industry, academia, government, the investment community as well as entrepreneurs and students to collaborate.  Garnering over 3,600 attendees and more than 550 exhibitors in 2018, Discovery is a showcase of leading-edge technologies, best practices and research from sectors such as health, manufacturing, digital media and cleantech. Renowned keynote speakers and panels ignite discussion, knowledge-sharing and new perspectives. Networking opportunities feature key influencers from government, academia, industry and leading sectors.  To learn more, or to register, click <a href="here">here</a>	Gillian Sheldon (OCE)
HSCN Healthcare Supply Chain Conference: Success Through Synergy (May 13 – 15)  Canada's only conference designed especially for healthcare supply chain professionals and gain insights into the industry's most innovative approaches to supply chain. Success Through Synergy will explore strategic ideas, innovative tactics and best practices in supply chain that lead to optimizing patient outcomes. The conference provides suppliers with a variety of sponsor and exhibitor opportunities designed especially with supplier needs in mind.  This organization is looking for some innovators in the medical space to give seven minute summaries of their business. It would put them in front of an audience of influencers in the hospital supply chain space.  For more information please contact Caroline Aston: <a href="mailto:caroline@astonevents.com">caroline@astonevents.com</a> or 416-521-9148 or visit the website <a href="mailto:here">here</a>	Robert Fichtner (Focal Point)
Call for Abstracts: Body Peace 2019 Conference (deadline May 15)  Body Peace is a first-of-its-kind virtual body image and eating disorders conference. This year's theme, Lived Experience Is Evidence Too, will highlight lived experience, not only in survivors but in caregivers and health professionals. This event will feature training sessions, panel discussions, keynote speakers, live chats and more! Over the three days of the conference, Body Peace 2019 will offer three different areas of focus: Innovation, Representation, and Collaboration.  Innovation: Highlighting innovative approaches, fresh ideas and new perspectives in the eating disorders and body image world.  Representation: Highlighting the diverse voices of those with lived experience, caregivers, and clinicians.  Collaboration: Highlighting the ways we can join our voices to break down stigma and promote empowering approaches to healing.	Sonia Seguin (Body Brave)



Discussion	Presenter
Abstracts will be accepted until May 15, 2019. Presenters will be notified if their abstracts have been accepted by June 1, 2019. Submissions should provide a brief explanation of the presentation in 150 words or less.	
Non-profits Body Brave, National Initiative for Eating Disorders ( <u>NIED.ca</u> ) have teamed up to bring you Body Peace 2019!	
To learn more, contact Sonia Seguin: sonia@livingbodybrave.com	
Canada-US Cross-Border Innovation Corridors: Cascadia and the Great Lakes Region (May 16)	Kathryn Friedman (UB)
This one-day workshop will convene stakeholders from the Cascadia Innovation Corridor, Detroit-Windsor, and the Buffalo-Niagara-Hamilton-Toronto binational region to tell their stories about the promise of a cross-border approach to economic growth and innovation. Participants will discuss the drivers for creating stronger collaborations in each cross-border region; their timeline (when did they start? how long has it taken?); and how they are doing it.	,
It is anticipated that participants will learn from each other's experience; strengthen their networks; distill key insights; derive new perspectives to take away to their respective regions; and be inspired to find ways to commit to new levels of strategic collaboration. Given common challenges and perceived opportunities for the United States and Canada, we look forward to the Dialogue informing broader U.SCanada policy discussions on innovation and economic growth and partnership possibilities.	
An agenda and further information on the program are forthcoming. In the meantime, if you have any questions, please feel free to contact Dr. Kathryn Bryk Friedman, Global Fellow, Woodrow Wilson International Center for Scholars and Research Associate Professor of Law and Planning, University at Buffalo, at <a href="mailto:kbf@buffalo.edu">kbf@buffalo.edu</a>	
Call for Abstracts: e-Health Conference and Tradeshow (May 26-29)	Digital Health Canada
Digital Health Canada has put out a call for those interested in submitting an abstract for presentation at e-Health Conference and Tradeshow.	
Contact Health Program Chair Scott McMillan or Conference Coordinator Yurim Park to get more information at: <a href="mailto:events@digitalhealthcanada.com">events@digitalhealthcanada.com</a>	
City of Hamilton Booth @ e-Health 2019 (May 26-29)	Carolynn Reid (EcDev)
City of Hamilton has reserved a booth at the e-Health Conference, which includes 4 registrants at e-Health 2019 at the Beanfield Centre in Toronto. Representing Hamilton will be:	(Lebev)
<ul> <li>St. Joseph's Healthcare, Hamilton</li> <li>McMaster MeHealth</li> <li>Mohawk College</li> <li>Synapse Consortium</li> </ul>	
Hamilton Health Sciences	
Please reach out to Carolynn Reid ( <u>Carolynn.Reid@hamilton.ca</u> ) if you'd like more information or to participate in Hamilton's engagement at e-Health 2019.	



Discussion	Presenter
Next Great Big Ideas is now scheduled to take place in mid-September, and will be held in Burlington. We've got a great line-up (Stryker, GE, JLABs).	Jim Wilson (CBRE)
Will be putting together the organizing committee. Those interested should reach out to Jim Wilson (J.Wilson@CBRE.com)	



## Time allotted | 20 Minutes

## Topic: Collaborate & Accelerate

Partnership opportunities, programming and resources available to the community, market gaps and challenges, learn about potential funding opportunities, discuss new RFPs issued, etc.

	Presenter
	Alex Muggah (Synapse)
<ul> <li>Recent visits to/from Hamilton:         <ul> <li>Recent: participated in panel on Feb 7 discussion 'Building an Innovation Ecosystem' at the McMaster Innovation Park hosted by the McMaster tech transfer office (MILO)</li> <li>Recent: Synapse in Buffalo (March 8): Synapse joined Bay Area Health Trust on a visit to Buffalo to visit the Rockwell Cancer Centre. Separately, Synapse met with representatives from 43North and others in the ecosystem to explore opportunities for cross-border collaboration.</li> <li>Recent: AmorChem visiting Hamilton (March 20): representatives from AmorChem, a Quebec based fund with committed capital of \$41.25M focused on investing in promising life science projects originating from universities and research centres, were in town to connect with McMaster researchers and other members of the Synapse Consortium</li> </ul> </li> </ul>	
<ul> <li>Upcoming: RBC Ventures visiting Hamilton (March 27): the Director, Strategy &amp; Partnerships, Health &amp; Wellness of RBC Ventures will be visiting Hamilton. RBC Ventures is focused on building new ventures, acquiring growing firms, making investments and partnering with organizations operating in the digital health space.</li> <li>Upcoming: City of Hamilton Booth @ e-Health 2019 (May 26-29): Synapse will be joining the City of Hamilton at their booth at the upcoming e-Health Conference. Space may be available to interested companies and organizations in the region who would like to join the City's delegation. Please reach out to Carolynn Reid (Carolynn.Reid@hamilton.ca) for more info.</li> <li>Upcoming: Dr. Nick Hopkins, Jacobs Institute (April 5): a delegation from Hamilton Health Sciences and Synapse, including practitioners, innovators, and administrators, will be heading down to Buffalo in early spring to visit world-renowned neurosurgeon Dr. Nick Hopkins and one of the US's leading</li> </ul>	



Discussion	Presenter
hopes to build on the momentum of Dr. Hopkins recent visit to Hamilton to explore collaboration opportunities.	
Market Research Available to Innovation Factory Companies	Riley Moynes
Innovation Factory noted it is possible for companies to take advantage of free market research (available via MaRS), which can be tailored to each ventures specific needs and turned around in two weeks. The market research is quite high value – with an average value of \$5,000 – but is available to Innovation Factory clients for free. In addition, the regional innovation centre network also offers consulting hours that can be accessed via Innovation Factory.	(iF)
To learn more, contact Riley Moynes (riley.moynes@innovationfactory.ca)	
HealthQR – Seeking Partners to Assist with Developing Digital Therapeutics Solutions	Patti Ryan (Helath QR)
Patti Ryan (CEO, HealthQR) shared that her company will be pivoting towards digital therapeutics, now that the FDA has announced it will be regulating this space (will need to go through a clinical trial to prove a digital app).	
The focus is now on creating a digital solution that can help with metabolic symptoms, to allow patients to lower their risk of various disease. To that end, Patti is seeking partners to help tackle issues around clinical data and AI – to enable analysis of claims data to reveal patients current risk profiles around cardiovascular disease. HealthQR has already engaged SunLife in discussions.	
Because companies operating in this space are not regulated in Canada, we can then jump into the US. The FDA will divide digital apps into three classifications: stand-alone apps; apps attached to drugs delivery (e.g., linked to pharmacy, access to primary data); and apps that take the place of medication (e.g., lifestyle changes to replace drugs).	
To learn more, please reach out to Patti (patricia@healthgr.com)	
Health Canada Guidelines Around Software as Medical Device	Katie Porter (HHS)
Health Canada has developed a <u>Draft Guidance Document for Software as a Medical Device</u> ( <u>SaMD</u> ) to better define the regulatory compliance requirements for emerging technologies. We are seeking input from stakeholders regarding the criteria and interpretations put forth to regulate software products in Canada. Specifically, we would like to receive comments from stakeholders on the following aspects of the documents:	
<ul> <li>Inclusion Criteria</li> <li>Exclusion Criteria</li> <li>Classification of SaMD</li> <li>Examples of SaMD</li> <li>Licensing a Medical Device in Canada – Overview of Submission and Regulatory Requirements</li> </ul>	



Discussion	Presenter
Participate by mail - Send a letter with your input to the address in the contact us section	
below.	
Participate by email - Send an email to <a href="https://example.com/hc.mdb.enquiries-enquetes.bmm.sc@canada.ca">hc.mdb.enquiries-enquetes.bmm.sc@canada.ca</a> with your comments.	
Synapse has updated its website!	Alex Muggah
	(Synapse)
In addition to a new calendar, mailing list, and other partnership portal, it also provides a	
cleaner look for companies, investors and others interested in engaging the Hamilton health	
ecosystem. A new-look member directory is coming shortly! Feel free to take a look and let us know what you think.	
Special thanks to Dave Carter and the iF team for their support in getting it up and off the ground.	
Seeking AI project partners	Niall Wallace
	(HandInScan)
Niall Wallace (HandInScan) has been looking to initiated a funded AI project around health	
innovation in hand hygiene.	
They are looking for partners in the Hamilton region – and have had some interest with the	
McMaster Research and High Performance Computing Centre, as well as with the new	
student-led McMaster AI club run by Andrew Lieber. Anyone interested in learning more	
about the proposed AI project, or engaging HandInScan should contact Niall	
(niall@sleepangel.ca)	
BAHT sponsored the Bay Area Science and Engineering Fair (March 30)	John Hands
	(BAHT)
Bay Area Health Trust shared that it is sponsoring the Bay Area Science and Engineering Fair,	
for high school kids in the Hamilton region. Come out on Saturday morning to celebrate the	
next generation of innovators sharing their work and discoveries.	
Synapse has created the <u>Hamilton Innovation Partnership Portal (HIPP)</u> to make the process	Andrea Lee
simpler and more streamlined to find new partners within Canada's leading health research	
and educational ecosystem.	(HHS)
and educational ecosystem.	
It is a way for companies to interact with the Hamilton community. A streamlined approach,	
to have Synapse represent everyone. We've set up an intake form, and have asked	
companies to direct them to the portal. Synapse is working with HHS to test it out with	
companies right now, including getting the approach/questions right. This will be a sense of	
who wants to interact with the community, and then triage companies to relevant	
stakeholders within Hamilton.	
Stakeholders Within Hamilton.	
Portal is online through the Synapse website: <a href="http://synapseconsortium.com/partner/">http://synapseconsortium.com/partner/</a>	



Discussion	Presenter
MGDII Educational Webinars  Operating out of the Michael G. DeGroote School of Medicine at McMaster University, the Michael G. DeGroote Health Innovation, Commercialization & Entrepreneurship (MGDII) aims to accelerate the exploration of health innovation opportunities and creation of socioeconomic impact. Some of the upcoming webinars include:  • Market Research, Patent Searches and Target Product Profiles MARCH 28   12 - 1 PM   Register here  • Market Sizing and Developing User Personas APRIL 11   12 - 1 PM   Register here  • Compelling Value Propositions: Pitching to Different Audiences APRIL 18   12 - 1 PM   Register here	Sarrah Lal (MGDII)
Trade Commission hosting "Access Global Markets" event (April 5)  On Thursday April 5 we're hosting an event called Access Global Markets with the Trade Commissioner Service. It will give companies a better understanding of the opportunities and challenges they could face when entering new markets, and highlight how we can help. Ventures will meet visiting Trade Commissioners and the international reps our team brings to Toronto's health innovation week. Registration will go live shortly via the HIW main page.  As our teams gear up for HIW it would be great to know which companies and organisations plan to attend. We want to profile the superstars of Ontario's health ecosystem to the international scouts we'll be supporting.  Any researchers or startups looking to have TCS promote their work, please contact Petia (petia.tchoukaleyska@international.gc.ca) with:	Petia Tchoukaleysk (GAC Trade Commissioner)
<ul> <li>Company name and website</li> <li>Product/technology description: no more than 3-5 lines that explains what your product/technology does and what pain point it solves for users (hospitals, doctors, patients, insurance companies, etc.)</li> <li>Who should know: who your target buyers/partners are and which markets you're interested in</li> </ul>	
3i Ontario  Looking for resources to support your great idea for improving health and healthcare? This page lists a range of opportunities available to Ontario innovators and innovation champions, as well as recently published information and thinking related to health innovation. We focus on health technology, including digital health solutions, innovative medical devices, and more.	Alex Muggah (Synapse)

