

Hamilton Health Innovation Check-up: Meeting Minutes

July 30th, 2018

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.

Alex Muggah, Synapse Consortium
McMaster Innovation Park,
175 Longwood Dr,
9:00-10:00am

Please note that 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 link: https://www.dropbox.com/sh/wszh8i2jq1sr03g/AACByBs-HmHVBl0ZIX5Hj7zEa?dl=0

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: <u>Alex.Muggah@SynapseConsortium.com</u>. Updates will be reflected in a new section titled "Amendments from Previous Meeting".

Next Monthly Check-up: August 27th | 9:00 – 10:00am | McMaster Innovation Park

Please contact Alex Muggah at Synapse to be added to the meeting invite list / minutes distribution lists

Time allotted | 20 Minutes

Topic: Communicate

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

Discussion	Presenter
Investor representatives, the design partner from San Diego and <u>Advanced</u> <u>Theranostics Inc. (ATI)</u> engineering and chemistry teams gather a few weeks ago to celebrate meeting their investment milestone, including the release of the second tranche of USD\$2m funding, following an earlier upfront release of USD\$3m.	Bernard Lim (iF)
McMaster Innovation Showcase 2018 – November 7 Since 2008, the McMaster Industry Liaison Office has hosted the McMaster Innovation Showcase as an opportunity for the university to raise awareness of McMaster's role in helping local businesses and economies grow. The event includes keynote speakers, panel discussions, innovation showcases, open houses at student entrepreneurship hubs, and much more. As always, the McMaster Industry Liaison Office's goal is to help the research community create a culture of innovation and commercialization.	Leigh Wilson (MILO)
To learn more, click <u>here</u> CECR Funding Announcement at McMaster University On July 30, the Honourable Kirsty Duncan, Minister of Science and Sport announced five grants, totaling \$79.8 million, to be delivered through the Centres of Excellence for Commercialization and Research (CECR) program. One of the five hubs is located in Hamilton. Minister Duncan made the announcement at McMaster University, where the Centre for Probe Development and Commercialization (CPDC) is located. The CPDC works with industry and academic partners to provide the expertise and infrastructure needed to develop and manufacture radiopharmaceuticals, a special type of drug that gives off energy and helps doctors diagnose diseases at an earlier stage. Based on their diagnosis, they can then choose the best therapy for individual patients with diseases such as heart disorders and cancer. For more information, click <u>here</u>	Alex Muggah (Synapse)
For more information, click <u>here</u> Three members of Hamilton life science community have earned this country's highest honour as a <u>Member of the Order of Canada</u> , which recognizes outstanding achievement, dedication to a community, and service to our nation. Andrea Baumann is the associate vice-president, global health for the Faculty of Health Sciences and is being honoured for her significant contributions and leadership in	Alex Muggah (Synapse)



Discussion	Presenter
health human resource capacity-building and transdisciplinary collaboration both in Canada and around the world.	
Mohit Bhandari is a professor of surgery for the Michael G. DeGroote School of	
Medicine and was named for his contributions to the field of orthopaedic trauma and	
for his pioneering research in the area of intimate partner violence.	
Jack Gauldie is VP Research at St. Joseph's Healthcare, and professor emeritus of the	
Department of Pathology and Molecular Medicine. Jack was recognized for his	
groundbreaking discoveries as an immunologist specializing in gene therapy, aiding in	
the treatment of fatal diseases and contributing to the development of cancer vaccines.	
These three are among 105 Canadians appointed today to one of Canada's highest	
civilian honours. Members of the Order of Canada are noted for their outstanding	
contributions at the local or regional level or in a special field of activity. Companions	
are recognized for outstanding achievement of the highest order in the service to	
Canada and to humanity.	
2019-2022 Integrated Health Service Plan (IHSP) Engagement Survey	Alex Muggah
In preparation for the upcoming 2019-2022 Integrated Health System Plan (IHSP) the	(Synapse)
Hamilton-Niagara Haldiman Brant (HNHB) LHIN has engaged with +400 individuals	
including, health service providers, stakeholders and the community. Priorities	
identified in the first round include:	
• Building Healthy Communities – focus on prevention, keep people out of the health	
care system, maintaining quality of life for those with chronic issues	
 Eliminate silos between Hospital and Community – improve cross-sector communication 	
 Health Equity and Access – quicker access, and care that recognizes the social 	
determinants of health, meet people where they are	
 Health Promotion – prevention, and maintaining health and wellbeing, assisted 	
living, supportive housing	
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Currently in the second phase of engagement, the HNHB LHIN is seeking feedback through an updated online <u>survey</u> and upcoming webinar sessions. Visit the IHSP information page <u>here</u> for more information or to register for a webinar.	
Andrea Lee (Hamilton Health Sciences), and Alex Muggah (Synapse) visited Markham to meet with members of the health innovation community, including <u>Y Space</u> and <u>VentureLAB</u> .	Andrea Lee (HHS)
Y Space is a new space housing startups coming out of York University, including life science companies. They have a maker space (e.g., digital fabrication facility with 3-D printers, scanners, laser cutters and CNC routers), an accelerator space (e.g., co-working space available on a drop in, monthly hotelling, and dedicated desk) and training programs (e.g., of educational workshops and training classes developed and delivered by Innovation York, as well as external organizations).	
VentureLAB is the York Region's regional innovation centre which exists to support innovative entrepreneurs building scalable tech businesses. They offered programming on capital, talent, technology. We heard about the additional 50,000 square feet of space they are creating for entrepreneurs, and their interest in moving towards large- scale format providing support to lots of workshops.	
Synapse hosted a visit from members of the Kitchener-Waterloo (KW) life science community, including Communitech, the Accelerator and Velocity. In addition to meeting with Synapse, the KW delegation got the chance to connect with leaders from Hamilton Health Sciences, St. Joseph's, the McMaster Industry Liaison Office, and others. The goal of this visit is to deepen the connections between Hamilton and Kitchener-Waterloo, and in particular make visible the assets and capabilities that Hamilton has to offer, which can be used by KW startups/SMEs.	Alex Muggah (Synapse)
To learn more, or to get help reaching out to the KW health innovation community, please contact <u>Alex Muggah</u>	
Health Leadership Academy: <u>Event Series</u> The Health Leadership Academy runs a series of events in health innovation and health leadership coming up over the course of the year – with the next one on Sept 13 th	Amanda Calzolaio (HLA)
 Sept 13 – <u>Role of Theatre Arts in Healthcare</u> (Health Leadership Academy) Oct 4 – <u>Health Economics and the Future of Cancer Health</u> (Health Leadership Academy) 	
Bay Area Research Logistics (BARL) shared that it has tweaked its social media marketing presence and encouraged everyone to check out their revamped <u>website</u> , as well as their new <u>linkedin</u> and <u>twitter</u> accounts, to see what BARL has been up to.	Kaitlin Guarascik (BARL)
From its cGMP compliant facility in Hamilton, Ontario, Bay Area Research Logistics provides seamless coordination for large, global trials as well as small-scale INDs, specializing in the clinical supply and logistics management of clinical trials ranging from	



Discussion	Presenter
Phase I to Phase IV. BARL is the preferred vendor for vaccine, pharma, and biological trials for leading pharma companies and research institutes in North America.	
<u>Gabriel Scientific</u> 's Niall Wallace shared that he has been working on a project with the Head of Infectious Control in Saudia Arabia. The project deployed new technology in the ICU, and saw a 58% reduction in infection and 38% improvement in cost controls. Given this success, they are looking to replicate this in Canada.	Niall Wallace (Gabriel Scientific)
As well, Gabriel Scientific will be doing a research study on sleep performance with the Hamilton Tiger Cats. This study will be similar to one that has just been initiated with three professional soccer teams in Europe that play in the Champions League. Gabriel is looking for academic and/or clinical researches focused on sleep performance, who might be interested in participating in the study.	
If anyone is anyone is interested in participating in either study, please reach out to Niall Wallace directly.	
David Gooch, the Regional Executive Director of the <u>Victorian Order of Nurses (VON)</u> provided some interesting background on a recent project designed and implemented through a relationship with three hospitals, that leveraged three types of care.	David Gooch (VON)
The project looked at the use of <u>Sensory Technologies' eShift platform</u> , as part of an innovative model of care that better supports palliative and complex patients, while making the delivery of home care easier and more efficient. eShift provides clients with direct, 24/7 access to a VON Directing Registered Nurse, and they benefit from an integrated "one care team" approach that includes a common Electronic Health Record across all care settings.	
The project with the London Health Sciences Centre's award-winning Connecting Care to Home (CC2H) initiative, helped clients with COPD and heart failure manage their illness in a home setting, and resulted in 47.9% cost savings and a reduction in patient length of stay of 59%. The real-time data, with dashboards, we gained significant savings on readmissions.	
A three-year study, led by Western University, concluded that the eShift model of care supported patients to die in their place of choice, reduced caregiver stress and burden, resulted in shorter hospital stays (with an overall reduction of nearly 60%), and is proven to lower readmission rates in complex end of life patients, with rates now below 2%. Through the use of eShift, VON Canada health care teams reported high job satisfaction, high interpersonal collaboration, and believed they were providing high quality care to patients and their families.	
VON and Sensory Technologies are excited to continue to work together to deliver a superior model of care to those who need it most —and to pursuing new opportunities in Ontario and beyond. Going forward, VON is looking for additional hospital partnerships and agreements with service providers. There may be different	

Discussion	Presenter
technologies that are considered in the future, as there is potential for the deployment of better tools.	
To learn more about the technology and/or project, please reach out to David Gooch at the VON	
Waterloo MedTech conference ("What's Holding us Back") is taking place Oct 24, 2018. Bringing together entrepreneurs, start-ups, researchers, industry and government experts, and healthcare professionals together to innovate solutions to pressing healthcare problems. To learn more about the conference	Alex Muggah (Synapse)
McMaster's <u>Biomedical Discovery and Commercialization</u> (BDC) program is now accepting new company postings for student internships, with up to 19 students available to be placed. Students are rigorously selected with an incoming "A" cohort grade average and are subject to an innovative curriculum integrating biomedical and MBA courses.	Emily Taylor (BDC)
At this time, the internships are set for 4-8 months, or can be longer if required. There is also flexibility to structure the placement as a co-op. BDC is able to make \$3000 in tax credits may be available as well as other funding opportunities.	
For more information, please reach out to <u>Emily Taylor</u>	
Separately, St. Joseph's indicated interest in providing an opportunity for students to come to a hospital to learn how clinicians and hospitals interact with companies.	
The Industry Preview Career Fair for the students of the Biomedical Discovery and Commercialization program at McMaster University will be held on September 21, 2018.	Emily Taylor (BDC)
Companies interested in participating, looking for more information or to reserve a free booth, please contact <u>Emily Taylor</u>	
The 2018 MedTech Conference is taking place on Sept 24-26, 2018 in Philadelphia.	Alex Muggah (Synapse)
The conference features a variety of plenary speakers, a wide array of educational programming, valuable networking and business development opportunities. The conference includes many of the industry's prominent and promising companies.	



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.

Discussion	Presenter
The Forge has opened its application for the September cohort of companies seeking to enter Hamilton's most dynamic startup incubator.	Monika Yazdanian (Monika)
The Forge is the startup incubator for McMaster University and Hamilton region and is open to anyone pursuing scalable, technology-based companies. Their goal is to work hands-on with early-stage entrepreneurs to help them build successful startups. So far 97 companies have been through the Forge; together they have raised over \$20 MM and are selling products in 30+ countries.	
If you have a great idea, a team and good progress towards a prototype, you are eligible to apply for The Forge. This is a competitive process and the deadline for our next cohort is August 17.	
To learn more, or apply, click <u>here</u>	
<u>HealthQR</u> has reached the second round of the <u>OCE Health Technology Fund</u> , and is working on a full application focused on chronic pain. The proposal has been adjusted from the previous round to include <u>PillCheck</u> (another Hamilton company) on the chronic pain. We're going to be working with <u>WHIV</u> as the	Patti Ryan (HealthQR)
evaluator.	
On July 16 th Canada Health Infoway released a <u>call for proposals</u> inviting interested parties to demonstrate how they might contribute to the development and/or operation of ACCESS Gateway (Gateway), an ACCESS Health initiative. The deadline for the proposals is August 10 th .	Patti Ryan (HealthQR)
HealthQR is interested in submitting an application as a pharmacy connected application, given the focus around leveraging the ecosystem for PrescribeIT to help empower citizen-controlled data. Recognize that there is a challenge given that TelusHealth won the contract for PrescribeIT, but they don't have an open network.	
Reach out to <u>Patti Ryan</u> at Health QR if your company/institution is interested in looking at a collaborative proposal, especially middleware partners and health applications seeking to integrate with pharmacy applications. Conversations with Sobey's has been started, given their role in the Atlantic Provinces.	
Hamilton Health Sciences noted that it has begun working with <u>DashMD</u> on the next stage of the application for round 3 of the <u>OCE Health Technology Fund</u> . HHS	Andrea Lee (HHS)



Discussion	Presenter
will act as the lead hospital, helping to DashMD to coordinate a large multi-site evaluation of their patient management and engagement platform. Other partners are in Thunder Bay, North York, Halton, etc.	
To learn more about the application, please reach out to <u>Andrea Lee</u>	
Separately, Hamilton continues to work on the <u>HTF Round 2 project</u> "Remote ECG Monitoring to Reduce Complications following Transcatheter Aortic Valve Implantations" (REdireCT TAVI). A \$500k project led by m-Health Solutions, in concert with Hamilton Health Sciences which is testing a new digital monitoring tool that could shorten the amount of time patients need to spend in the hospital following transcatheter aortic valve replacement (TAVR).	
Four life science companies into finals of Lion's Lair. Final showcase will be on September 27, 2018	Alex Muggah (Synapse)
The annual event organized by Innovation Factory will see ten companies compete in front of a panel of "lions" for a chance to win more than \$100,000 in cash and in-kind prizes this fall. The top 15 in the annual Lion's Lair competition have been whittled down to 10 finalists after months of training and a round of pitches.	
To learn more about the Lion's Lair competition, click <u>here</u> . to See the article in the Hamilton Spectator, click <u>here</u>	
<u>3i Ontario</u> , lists grants, funding and partnership opportunities for life science companies. 3i Ontario is maintained by Azimuth Health Group, an Ontario Innovation Broker	Alex Muggah (Synapse)



Hamilton Health Innovation: Calendar Highlights

<u>August</u>

- Aug 9: In-Focus: Data Registries, Machine Learning and Digital Apps (MDGII)
- Aug 16: In-Focus: Research Ethics and Research Methodologies (MDGII)

<u>September</u>

- Sept 6: Business Development Basics for Life Science Companies (JLABS)
- Sept 6: Ontario Trade Mission to RESI Conference in Boston
- Sept 13: <u>Role of Theatre Arts in Healthcare</u> (Health Leadership Academy)
- Sept 17: <u>Ontario's Next Competitive Advantage: Life Sciences Sector</u> (ON Chamber of Commerce)
- Sept 20: McMaster University Student Career Fair
- Sept 21: Industry Preview Career Fair (BDC Program)
- Sept 24-26: Philadelphia MedTech Conference
- Sept 27: LiON's Lair (Innovation Factory)

October (and Beyond)

- Oct 4 <u>Health Economics and the Future of Cancer Health</u> (Health Leadership Academy)
- Oct 16-18: 21st TCI Network Global Conference (Institute for Competitiveness & Prosperity)
- Oct 24: <u>Waterloo MedTech 2018</u> conference (Waterloo MedTech)
- Nov 7: <u>McMaster Innovation Showcase</u> (MILO)

