

Hamilton Health Innovation Check-up: Meeting Minutes

August 2019

Join our <u>mailing list</u>!

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

Next Monthly Check-up: September 30 | 9:00 – 10:00am | McMaster Innovation Park Please sign up to our <u>mailing list</u> 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: <u>Alex.Muggah@SynapseConsortium.com</u>. 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):

- David Wright
 Manager, Investor Services, <u>AngelOne Network</u>
- [presentation slides used, and are 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] **Discussion**

Introduction

I joined <u>AngelOne</u> as Manager, Investor Services back in March. During the last few months I recognized that the healthcare field for investment opportunities was being overlooked. That got me thinking about where to look for companies to invest in – after that, I quickly plugged into the Synapse Consortium and the Hamilton network.

To that end, we are holding an investor meeting <u>tomorrow night</u> – a MedTech Focused Investment Meeting – with 9 promising technology companies that will present to our angels. We are creating an environment for them to do their pitches and then mix with angels for a few hours. The event will be held at TechPlace in Burlington. The selection of companies came from a few places, including: my meeting companies at the <u>Synapse</u> <u>Competition</u> where I served as a judge, along with suggestions from various RICs including <u>Innovation Factory</u>, <u>TechAlliance</u> and <u>Haltech</u>.

AngelOne is the Halton regional angel network – our territory covers from Halton to Hamilton. Our Executive Director is Karen Grant, who started this group back in 2011. On a personal note, I've been in investor research for 20 years, and am familiar with this space – though I was focused more on CGI and OpenText and companies like that.

AngelOne is part of an alliance, and we have joined with KW (SWO) and London (GTAN). Across our network there are 200 check-writers who we can draw upon. By holding this seminar tomorrow night, we're looking at a broader region (e.g., from KW) to bring capital to the table.

Looking for Opportunities

Every month AngelOne has 60 companies approaching us looking for funding. When we go from 60 to the 3 that will end up presenting to our angels, we are often choosing companies that are using capital for business expansion – they are on a growth path, and they are getting extra capital to expand into new regions or markets. As we picked companies, we saw those that are looking to develop medical devices that may not come to market for several years – but these quickly gets put aside. After a couple of months, I realized that we're putting a lot of healthcare companies off to the side – but this is part of the ecosystem that we want to get involved in.

This Health Check-up meeting is a demonstration of the strength of the health ecosystem. As Angel One, one of the ways we can contribute is to provide capital to emerging entrepreneurs and health innovation.



Guest Speaker Discussion

After noticing that we were shelving healthcare companies, we did an analysis of how much we had invested in the healthcare field. Over the last 8 years, we've invested \$28M in 76 companies. We've had 226 active investors – some of whom have participated in multiple rounds. Angel investing is a tough business – we've had 8 closures (that didn't make it) and 7 exits.

During this time AngelOne has put only 6% of our capital into life sciences companies – with 10 investments totalling \$1.7M. These haven't resulted yet in closures or exits. Some of the companies we've invested in is NERv Technologoies, Xpan and Epineuron (who have been in the Synapse Competition). But to have confidence to make these investments, we need to leverage expertise in the health ecosystem - expertise that is demonstrated here in this meeting.

At the same time, I did a comparison with other angel groups [*see presentation slides*]. TechCoast Investing, a USbased network, started publishing some data a little while ago. During a recent period for which they provided data (1997-2006), they had 117 outcomes, in which they invested \$10M, and they got \$51M back. This gave them a 23% annual return as compared to 8% in the S&P over the same period. When diving into their investments, we see that investments in a quarter of companies lost everything, another quarter returned 50% back, they broke even on a further 20%, and another 10% they got less than 3x back. It was only the last 14% of the companies that they invested in where they got significant returns - 33x their investment.

The Central Texas Angel Network (different timeframe / study), but they showed returns 22% annual returns. And the dynamics are similar – but by sector, we saw B2B and Life Sciences resulted in the largest returns. They got 4X the money back on B2B and 3.1X on life sciences, and 2X on hardware, and CPTG was 1.7X.

It was this chart that made me say "Ah-Ha! We want to spend more time in the life sciences space". And we're starting to move in that direction.

So, you're welcome to join us at the event tomorrow. Normally what we do, is that each company gets a 12minute presentation, then the angels ask questions, and then we move to the next company. This time, we're going to be giving each company 6 minutes, and then the angels can meet with them afterwards. Before the pitches, <u>Bernard Lim</u> (serial entrepreneur, and EIR with Innovation Factory) will be joining me to have a moderated discussion about angel investing and some of the peculiarities of investing at this stage in companies.

Question & Answers

Q: What's a typical level of investment, for these companies

A: Typically, the companies that are looking for 500-750k and on average, Angel One has contributed \$225k. They get about a quarter of what they need, and then the companies go to other Angel groups in our networks. The idea is that companies that we choose will go on a road show to the other two groups that are part of our alliance. We have had individuals write checks over \$200k. The most common investment number for an angel is about \$25,000.

Q: What would make this event a success?

A: Criteria is pretty wide open. Angel investing is all about individuals wanting to put money in. It's not about a committee that will make a decision. If we present these 9 companies, and if everyone invested in all 9. But given that we figure a quarter of companies you'll lose your money in. If no one gets an investment, we may need to



Guest Speaker Discussion

pick a different set of companies next time. As more the angels see these types of companies, they may better understand the risks of investing in healthcare firms.

Finally, a part of the puzzle that I'm trying to get my head wrapped around is the partnerships that are in this field – if we are in the medical field, and we are building a device that requires FDA approval, clinical data, etc. I need to understand those relationships better. So we may want an ecosystem partner presenting alongside our companies. Going forward, we've talked about doing this type of pitch twice a year if we're successful.

Q: How far down the company maturity spectrum do you engage in – do you do seed funding?

A: That's part of the exploration that we're doing. There are a few ways to approach this. On returns, the consideration is that someone is asking for \$2M and they're going to say a \$100M exit (so you'll make 50X) – it's amazing how often I'll hear this. But the average exit is usually \$40M, so an angel needs a "30-bagger" to deal with the companies who end up failing. However, in addition I need to be considering the dilution that will result during subsequent rounds - an angel may invest \$100k for 10% of the company, but by the time of the exit, they may only have 3%. To convince an entrepreneur that he's only worth \$2M, then we need to invest at a pretty early stage. Historically, we've been picking safer companies – those that have revenue, are established, etc. – but for life sciences we'll have to go earlier.

Q: Any thoughts on why companies are failing at such rates?

A: It's just really difficult to be an entrepreneur. For example, a company may need \$10M, but are only raising \$2M – but then external factors result in the firm being unable to raise the other \$8M. A rule of thumb is that it things often take twice as long and are twice as expensive as first expected. For example, I'm invested in a LIDAR system – to help self-driving cars to see in the rain – but each system can cost \$100k, which makes it cost prohibitive at this point to put in a car, and the US government just canceled a project. But and that's not the CEOs fault – these things just happen.

Q: Of the 30-so companies that Velocity (in KW) has worked with, the first money in has been physician-based angels (often from the US, or a US-based accelerator). Does your network include physician-angels, or moving down the road?

A: We do have a number of physicians in our network, not a big number, just under 10%. Typically what happens with any investment is that we ask companies to make a presentation and then ask our angels "who's interested". We then look to a lead, out of those who have expressed interest, who can perform due-diligence. Our members have had 226 investors, but currently only 70 are active, so we have members come in and out. We may have new members join if we get some successes in this field. In the US, they make earlier stage investments – perhaps because they have additional experience or have a different investment risk profile.

Q: There is a degree of risk associated with early companies, which you then layer on risks associated with medical companies (e.g., securing FDA approvals). Are there other forms or vehicles that you've explored in terms of passing money to companies (e.g., safes)?

A: That will be up to the entrepreneur – based on how they propose to raise money. There are multiple forms that this can take (e.g., safes, convertible debt, equity, etc.). I'm not a fan of safes (started by YCombinator in the States). In effect, it is saying "give me your money, and I will give some portion in the future for something" – which doesn't sound like a good bet to me. I want to know that my \$100k is 4% or 1% or 20%. However, we're trying to educate our members about the options that are available to them.



Guest Speaker Discussion

Q: How do you evaluate earlier stage companies

A: We'll use the traditional methods, including partnerships that will demonstrate a good product. The other question that we think about is how much of our total capital we should be investing in any one company. The idea is that many small little bets are best, with the hope that one or two will be a big hit.



	Check out Synapse's <u>online calendar</u>
Septem	<u>per</u>
٠	Sept 5: Webinar: Pitching to Different Audiences - Compelling Value Propositions (MGDHICE)
٠	Sept 17: <u>Capital@MIP – A Speakers Series</u> (McMaster Innovation Park)
•	Sept 19: <u>President's Golf Classic</u> (Mohawk College)
•	Sept 20: <u>Advancing Medical Robotics: Leadership Lessons</u> (McMaster Degroote School of Business)
٠	Sept 22-25: The Med MedTech Conference (Boston)
٠	Sept 24: Innovation Through Partnership: Accelerate Innovation and Growth (Mohawk College)
٠	Sept 24: <u>JLABs Workshop in Hamilton: Let's Talk Legal</u> (Innovation Factory)
٠	Sept 26: LiONs LAIR (Innovation Factory)
e.	Sept 27: Non-Alcoholic Fatty Liver Disease Research Symposium (McMaster University)
-(···)-	Sept 27: <u>Biomedical Discovery and Commercialization – Industry Preview Fair</u> (McMaster University)
•	Sept 30: <u>Hamilton Health Check-up</u> (Synapse Consortium)
October	
•	Oct 1-3: <u>HireMcMaster Industry Week – Cannabis, Pharma and Health</u> (McMaster University)
•	Oct 1: Waterloo Innovation Summit (University of Waterloo)
•	Oct 4-6: <u>Body Peace 2019</u> (Body Brave & NIED)
٠	Oct 15-16: Apps for Health & FHIR North Conference (Mohawk College)
٠	Oct 16: <u>Therapeutics Summit</u> (McMaster University)
•	Oct 16-17: <u>CIX 2019 Summit</u> (CIX Summit)
٠	Oct 21: Driving the Future of Digital Health 2019 (Digital Health Canada)
•	Oct 24: Celebrate Research Day (St. Joseph's Healthcare, Hamilton)
	Oct 28: <u>Hamilton Health Check-up</u> (Synapse Consortium)
Fall 201	9 and Beyond
•	Nov 8: <u>Health Hackathon</u> (Hamilton Hacking Health)
•	Feb 5-7: Niagara Investment Summit (OBIO)
•	reb 5-7. <u>Magara investment summit</u> (OBO)

• Mar 7: HHS Foundation Gala (Hamilton Health Sciences)



TIME ALLOTTED | 20 MINUTES

Topic: Communicate

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

Discussion	Presenter
Toronto now ranked one of top three cities in North America for tech talent – Hamilton cited as one of North America's fastest growing "Opportunity Markets" (Toronto Star)	Alex Muggah (Synapse)
Fuelled by government funded start-up accelerators, welcoming immigration policies and a healthy venture capital market, Toronto is now rated number three in North America for tech talent, according to the CBRE Group Inc.'s annual report.	
The Hamilton region, meanwhile, is undergoing an "economic renaissance," in the aftermath of steel sector downsizing, said Jacques Comtois, general manager of imaging system maker L3 Wescam, which in June announced plans for a 330,000-square-foot head office in the nearby community of Waterdown.	
Hamilton's economy, benefiting from a low loonie, a well-trained labour pool and cost advantages over Toronto has been "pretty strong" in recent years, added Alan Arcand, associate director at the Centre for Municipal Studies at the Conference Board of Canada, after the latest job numbers from Statistics Canada showed a healthy job market in the Hamilton area.	
Read the full article <u>here</u> and other coverage <u>here</u> (Hamilton Spectator)	
Read the CBRE "Scoring Tech Talent" report here, and a press release here	
Biergarden Grand Opening	Jonathan Hunt (MIP)
On August 22nd, MIP celebrated the grand opening of the Biergarden@MIP! It was a great night of food, drinks and incredible entertainment.	
It was wonderful seeing everyone from the park and community come out and celebrate all the hard work that the teams at Equal Parts Hospitality and MIP have put in, to make this a reality!	
To hear about more upcoming events, be sure to follow us on Instagram @biergardenmip!	
Future of Health Summary Report	Ted Scott (HHS)
HHS would like to thank those who participated in the inaugural Future of Health Summit 2019 presented by Hamilton Health Sciences. They would also like to thank the delegates who provided their valuable feedback. We have summarized our reflections in the Future of Health Summit Report, which can be obtained in the Synapse Health-Check-up dropbox folder, <u>here</u>	(1113)
Hamilton and Burlington health providers apply to be first in Ontario to reinvent care	Alex Muggah
Proposed Ontario Health Teams will transform how local care is provided under sweeping changes coming into effect as part of Conservative health care reform	(Synapse)
Hamilton and Burlington organizations want to be among the first to adopt a major overhaul of the health care system by the Progressive Conservative government.	



Discussion	Presenter
Health and social service agencies have banded together in each city to put forth separate applications to create Ontario Health Teams (OHT), which are expected to oversee dramatic changes in how local care is provided.	
Both proposals got the go-ahead Thursday to move to the next stage in the application process to form the first OHTs in the province.	
"I don't think anybody at the table is sitting there because they think the whole thing is broken," said Paul Johnson, who is representing the city in Hamilton's proposed health team. "They are sitting at the table because they see such opportunity."	
To read the full Hamilton Spectator article, click <u>here</u>	
Ontario's Advanced Manufacturing Supercluster Announces First Project – Focused on Treating Cancers and Rare Diseases	NextGEN Canada
The Next Generation Manufacturing (NGen) Supercluster announced on Wednesday that it has approved its first project as part of the federal government's Innovation Supercluster Initiative.	
The project aims to mass produce treatment for cancers and rare diseases, with NGen touting it as a way to position Canada as a leading manufacturer of therapy tools for genetic disorders. "This project will drive innovation in the treatment of diseases and genetic disorders."	
On hand for the announcement, made at MaRS Discovery Centre in Toronto, was Navdeep Bains, minister of innovation, science and economic development (ISED). He called the project "an important first step" and "game-changer" that has the potential to save lives.	
"The NGen Supercluster is just getting started establishing Canada as a global hub for the world's most advanced manufacturing," Bains said. "Without immediate and targeted action that builds upon Canada's existing strengths, we risk falling behind in the global innovation race. This project will drive innovation in the treatment of diseases and genetic disorders once considered untreatable."	
To read the full article, click <u>here</u>	
Weekend Getaway: Yes, Hamilton is well worth a visit (Globe and Mail)	Alex Muggah (Synapse)
A nice piece by Domini Clark about how great Hamilton is as a destination – a reminder of what an amazing city we live in	
Celebrating 5 Years! McMaster Biomdedical Discovery and Commercialization Program (Sept 5)	Brian
It was nearly five years ago that the Department of Biochemistry and Biomedical Sciences launched the Biomedical Discovery and Commercialization program. Since the initial cohort of 12 courageous students, the BDC Program has grown to 110 undergraduate students and 36 graduate students in 2019/2020.	Coombes (McMaster)
To celebrate the successes of the program and to recognize the leadership of the inaugural director, Dr. Eric Brown and the BDC team, the department is pleased to host an Open House Celebration for faculty, staff, students and BDC alumni.	



Discussion	Presenter
Date: Thursday September 5 Time: 12:00-1:30 PM Chair's remarks at 12:30 PM	
Please send your RSVP to Tracy Stojanovic at stojan@mcmaster.ca	
Capital@MIP – David Schincariol, Changing Tide Ventures (Sept 17)	Jonathan Hunt
McMaster Innovation Park invites you to attend a new speaker series, Capital@MIP. Come listen to industry professionals speak about their adventures in seeking opportunities to invest, and what makes them say, "WOW." When considering their business, most entrepreneurs focus solely on how they can best serve the end consumer. We'd like to help entrepreneurs think more critically about how to present their business to investors. Learn how to make your business flourish financially by gaining insider knowledge about when to take the next step.	(MIP)
Schedule: 2PM: Round Table Discussion*** 4PM: Registration & Networking 430PM: Keynote Address	
Session: David Schincariol, Changing Tide Ventures An Unapologetically Canadian Approach to Doing Well by Doing Good	
David Schincariol's investment firm, Changing Tide Ventures, was founded in early 2019 with the mandate to impact 1 billion lives over 10 years. David has over 20 years of experience in helping companies grow and reach their full potential. In his newest endeavor, Changing Tide Ventures intends to influence major change in the world by supporting and investing in companies that tackle the world's biggest problems. The world is changing fast and the tides of change cannot be stopped. Companies can either be swept away by the tides of change or ride them to new heights. Will you join in the journey to #impact1billion?	
Mohawk College Foundation President's Golf Classic (Sept 19)	Alex Muggah
Come join members of the community and Mohawk College at the annual President's Golf Classic on September 19. Money raised goes to support education and community engagement efforts by the College across the Hamilton region.	(Synapse)
To register, click <u>here</u>	
Advancing Medical Robotics: Leadership Lessons (Sept 20)	Mary Taws (McMaster)
A breakfast conversation with Dr. Mehran Anvari, CEO of the Centre for Surgical Invention and Innovation! Start your day with networking and advice from Dr. Anvari regarding the leadership capabilities and skills required to champion innovation in the health system.	
Participate in the conversation via webinar or by joining us in person. Light breakfast + coffee and tea to be served.	
St. Joseph's Healthcare, Juravinski Tower Campbell Auditorium, 50 Charlton Ave. East, Hamilton, ON	



Discussion	Presenter
Doors: 7:30 a.m. Presentation: 8:00 - 9:00 a.m.	
Register <u>here</u>	
Dr. Anvari was one of the first surgeons in Canada to use robotics in surgery and has been a leader in the field of medical robotics and computer-assisted surgery ever since. He was also the Chief Scientific Officer for joint projects of McMaster, the Canadian Space Agency and NASA that were tasked with testing the ability of new robotic and telesurgical technology to allow a non-physician to perform assisted surgery in a contained environment that simulates conditions in space.	
The Med MedTech Conference (Sept 22-25)	Alex Muggah
AdvaMed presents The MedTech Conference that brings together more than 3,000 attendees to network, conduct business, gain access to capital and share insights in Boston, MA, from September 23–25.	(Synapse)
Featuring world-class plenary speakers, cross-cutting educational programming, valuable networking and business development opportunities, The MedTech Conference is a must-attend event for the industry's prominent and most promising companies.	
MedTech Conference Coming to Canada in 2020: As announced in 2017, The MedTech Conference will be coming to Toronto in 2020. This is exciting news as The MedTech Conference has never been held outside of the US.	
Innovation through Partnership: Accelerate Innovation and Growth (Sept 24)	Alex Muggah (Synapse)
Mohawk College and Burlington Economic Development Corporation invite you to attend an exclusive event for Halton businesses. Join us for a robust information and ideas exchange supporting innovation and growth.	(Synapse)
Discover how your company can partner with Mohawk College to research, design, prototype, test and commercialize new products, processes and technologies to improve business productivity and profitability.	
Access co-op and student placements to support your business; professional development for training and skills-upgrading for your business. Tour the state-of-the-art facilities at Mohawk including The Joyce Centre for Partnership & Innovation, IDEAWORKs labs and much more.	
Meet some of the highly specialized PhD researchers, professional engineers, technologists, technicians and students ready to collaborate with you to complete real-world projects. Many which are funded by provincial and federal agencies.	
Halton small, medium and large businesses that are looking to explore the breadth of opportunities, including research, product development, and talent, that Mohawk can offer to support business success.	
JLABs Workshop in Hamilton: Let's Talk Legal (Sept 24)	Brigitte Huard
Join us at McMaster Innovation Park for "Let's Talk Legal - How to Navigate the Legal Landscape: A workshop for early stage ventures." This workshop is designed to help	(Innovation Factory)



Discussion	Presenter
entrepreneurs demystify the legal landscape and fill in the blanks. It is organized in partnership with Blakes, one of Canada's leading law firms.	
This interactive workshop is dedicated to giving you the keys to a successful business, from creation to exit. The lawyers presenting these workshops have extensive experience working with life sciences companies ranging from very early-stage ventures through to multi-national public companies. There will be two sessions in this half-day event:	
 Session 1 Introduction to Legal Basics for Start-ups and Protecting your Intellectual Property Session 2 Venture Financing: What to Expect and Strategies for Success 	
LiON's LAIR Tickets on Sale Now (Sept 26)	Jennifer Gauvreau
Tickets for the 9th Annual LiONS LAIR competition are on sale now. Join <u>Innovation Factory</u> , the <u>Hamilton Chamber of Commerce</u> and <u>Hamilton Economic Development</u> and as we celebrate innovation and entrepreneurship at Hamilton's must-attend business event of the year.	(Innovation Factory)
 Network with the who's-who in the Hamilton business and start-up communities Watch the Top 10 pitch LIVE on-stage to the LiONS Plus dinner, drinks, an after-party and more! 	
Early bird ticket sales for #LiONSLAIR2019 end August 1, 2019. Don't miss Hamilton's biggest pitch competition of the year! Get your tickets today at https://lionslair.ca/tickets	
McMaster University Biomedical Discovery and Commercialization Program: <u>Industry Preview</u> <u>Career Fair</u> (Sept 27)	Jennifer Crane (McMaster)
I would like to invite you and members of your team to attend our Biomedical Discovery and Commercialization Industry Preview event on Friday, September 27th, from 9:00am – 12:00 pm at McMaster University (flyer attached).	
The intent is to connect employers with the new Master's, Level 4 and 3 students. Participation for employers is free! Would you be interested in joining us and having a booth?	
MBDC Program offers advanced training in the biomedical sciences complemented by fundamental business training using experiential, inquiry and team-based learning	
Hiring a Master's of Biomedical Discovery and Commercialization intern can be very affordable. There are a number of grants, tax credits, and funding programs that subsidize, and sometimes completely cover, the cost of your hire.	
Participation for employers is free – contact cranej1@mcmaster.ca to reserve your spot	
Non-Alcoholic Fatty Liver Disease Research Symposium (Sept 27)	Alex Muggah (Synapse)
Participate in the 7 th annual Metabolism, Obesity & Diabetes Research Symposium on Fri. Sept. 27 from 8:30-2:30 in the McMaster Farncombe Atrium.	



Discussion	Presenter
This year's topic is Non-Alcoholic Fatty Liver Disease: with Implications for Diabetes, Cardiovascular Disease, and Cancer. This one-day research symposium will bring together experts in the field of "Non-Alcoholic Fatty Liver Disease and its Implications" and is sponsored by the McMaster Centre for Metabolism, Obesity and Diabetes Research (MODR). Lunch and refreshments will be provided, with a reception to follow.	
Speaker List	
 Dr. Gerald Shulman - Yale University - NAFLD: the nexus of cardiometabolic risk" Dr. Marialena Mouzaki - University of Cincinnati - Microbiome and NAFLD Dr. Szilard Voros - Global Genomics Groups -The Development of a Multiomics Platform to Identify New Molecular Targets for NAFLD Dr. Rosana Kaepler - Formerly Nimbus The Path to Developing a new Non-Alcoholic Steatohepatitis drug 	
This event includes a free lunch and refreshments	
Current Trends in Biotherapeutics Workshop (Sept 27) The Clinical Translation Education Group will be hosting a one-day workshop with focus on current trends in biotherapeutics and innovations in cell and gene therapy with an emphasis on disruptive technologies. It will be aimed at trainees and other professionals in the biotherapeutic space and will introduce new tools and strategies that are shaping where the biotherapeutic field is headed. It will also provide an opportunity to network and learn about careers in these areas.	Alex Muggah (Synapse)
HireMcMaster Industry Week – Cannabis, Health and Pharmaceuticals (Oct 1-3)	Nayelli Perez
Showcase your organization to McMaster students, and learn what our students can do for you! This Week will provide opportunities for our students to build awareness of job and career opportunities in Cannabis, Health, and Pharma industries. Industry Week provides companies the opportunity to hold professional development workshops on topics such as resume writing, mock interviews, technical interviews, job	(McMaster)
searching to align with your company goals. Also, it gives you the option to host an Instagram takeover through the Hire McMaster Instagram account led by your co-op student(s).	
If you are interested in providing an industry specific workshop, please indicate the workshop you would like to run in the fill-out form below. We strongly encourage workshops to be unique and engaging to capture the attention and interest of students.	
We are looking for speakers to provide industry-specific workshops on October 1st, we strongly encourage workshops to be unique and engaging to capture the attention and interest of students. We would be happy to work with you in the development of the workshops. Speakers are encouraged to spend 10 minutes speaking about their organization and will have an opportunity after the workshop to network with students in the room.	



Discussion	Presenter
Workshops on October 1st will be held between 12:30 -4:30 and we can work with you to find a suitable time. We are asking employers to develop a 50-minute presentation with time after your presentation for networking and discussion with students.	
Possible workshops include "gaining experience in the industry" "opportunities in healthcare" "future trends in health care." If you have a unique or interesting talk, we would love to have you.	
On October 3rd we will be running a mini job fair with about 10 – 15 employers specific to the Cannabis, Pharma, and Health industry from 12:30-4:30.	
If you are interested in learning more or taking part, you can contact Dan Hess – Project Manager and Manager Employer Engagement for HireMcMaster at <u>hessd@mcmaster.ca</u>	
We welcome you to view the <u>Hire McMaster website</u> or follow <u>Linkedin</u> for information and tips regarding student recruitment	
Waterloo Innovation Summit (October 1, 2019)	Adrien Cote (Velocity)
Reimagining health with technology: Global and individual health care continues to be deeply disrupted by technology. Quantum sensors improving cancer treatment, health informatics prioritizing patient care and computational models predicting better surgical outcomes are all examples of how HealthTech is transforming individual health and the delivery of medical care.	
Join global thought leaders and change agents on October 1 as we take a deep-dive into the burgeoning HealthTech boom.	
Meet the disruptors: Witness for yourself the medical devices, pharma care solutions, digital technologies and data systems that will shift your perspective on health and make the delivery of care faster, cost effective and more accurate.	
See the future of HealthTech: Hear from HealthTech startups and scale-ups on how to successfully navigate growth. Discover the secrets of world-class innovators who have transformed original ideas into real-world solutions. And see what's on the horizon.	
Build connections: The day will include opportunities to network with industry leaders, policymakers and influential inventors in Engineering 7, our new state-of-the art training ground for engineers of the future. Share and hear thought-provoking ideas that anticipate trends and transform the world and find partners for your future.	
Experience a pitch competition: You will get a chance to participate alongside investors as they judge HealthTech startups from the University of Waterloo's Velocity, Canada's most productive startup incubator, as they complete in a real-time pitch competition for cash prizes.	
Apps for Health and FHIR North (October 15-16) Apps for Health is one of Ontario's premier information-sharing, networking and recruiting events for digital health industries. This interactive event provides a valuable opportunity for	Brian vanOosten (Mohawk College)



Discussion	Presenter
professionals from healthcare, technology and education to come together to discuss current and emerging trends in health, technology, medical education, and entrepreneurship.	
FHIR North is aimed at building awareness, knowledge and experience around the HL7 & FHIR healthcare interoperability standard in Canada. FHIR implementers will once again come together at Mohawk College in Hamilton, Ontario to develop and test innovative applications using the HL7 FHIR standards framework.	
Over two days, Apps for Health & FHIR North attract upwards of 700 attendees from the healthcare IT sector, including researchers, innovators and practitioners. Sponsors, exhibitors, and attendees now have the opportunity to support both Apps for Health and FHIR North as a 2-day digital health conference. We hope you'll join us for two days of exploring, engaging, and innovating.	
McMaster University: Symposium on Therapeutics (October 16)	Gay Yuyitung (MILO)
McMaster University's Industry Liaison Office (<u>MILO</u>) is planning to hold a symposium on therapeutics on October 16 to showcase McMaster-affiliated startups in this space (e.g., <u>Fusion</u> , <u>Adapsyn</u> , <u>Turnstone</u> , <u>Triumvira</u> , <u>Empirica</u> , etc.).	
Therapeutics Symposium hosted by McMaster University and the McMaster Industry Liaison Office (MILO). The event is invitational, and will be comprised of investors, government and non- profit representatives, and researchers/clinicians dedicated to therapeutic development. The symposium will focus on the process of commercialisation of the next generation of therapeutics being developed to address unmet clinical needs that was initiated by academic research, including by several McMaster start-ups.	
McMaster University and MILO are excited to be hosting a Therapeutics Symposium, focused on the next generation of therapeutics being developed to address unmet clinical needs.	
Agenda (Presentations and Panels)	
9:00am - 12:00 pm	
Jerel Davis, Managing Director, Versant Ventures	
Iain Stewart, President, National Research Council Canada (NRC) Demine Longhe Managing Directory Constant	
 Damian Lamb, Managing Director, Genesys Capital David O'Neil, President, FACIT 	
 Brian Bloom, CEO, Bloom Burton & Co 	
TBA, Ontario Genomics	
 Robert Verhagen, CEO, Centre for Commercialization of Antibodies and Biologics (CCAR) 	
 (CCAB) Gail Garland, CEO, Ontario Bioscience Innovation Organization (OBIO) 	
 Allan Miranda, Head of JLABS Canada, JLABS, Johnson & Johnson Innovation 	
1:00pm - 5:00pm	
John Valliant, CEO, Fusion Pharmaceuticals	
Brian Lichty, SVP Basic Research, Turnstone Biologics	
Andy Haigh, COO, Adapsyn Biosciences Sheila Singh, CEO, Empirica Therapouties	
Sheila Singh, CEO, Empirica Therapeutics	



Discussion	Presenter
Jonathan Bramson, CSO, Triumvira Immunologics	
The event will be held on October 16th, 2019 at McMaster Innovation Park, and is by invite only. If you'd like to learn more, please contact Jae-Ho Yoo at <u>yooj@mcmaster.ca</u>	
<u>CIX 2019 Summit</u> (Oct 16-17)	Alex Muggah
CIX is Canada's largest curated startup investment conference. Invited attendees are founders of Canada's most innovative early and growth-stage tech companies and global investors and corporates. Invited attendees are founders of Canada's most innovative early and growth-stage tech companies and global investors and corporates.	(Synapse)
NEW for 2019 - CIX has added a curated program for growth and later stage companies, CIX TOP 10 GROWTH. The original CIX TOP 20 EARLY will still focus on early stage companies.	
Save an extra \$50 off the current rate with VentureLab's partner code. You may register online and use the promo code CIX19PARTNERKICK, or reach out to Ben Soldinger at <u>bsoldinger@brunico.com</u> for further registration inquiries.	
Driving the Future of Digital Health: Charting a Course to Consumer Health (Oct 21)	(Digital Health
We are at the cusp of unprecedented change in the way health services in Canada are delivered, personalized, accessed, and funded.	Canada)
With an innovative, interactive format, Driving the Future of Digital Health is where new ideas and open discussions about digital health flourish. In its first year, Driving the Future of Digital Health attracted Toronto-area digital health professionals and organizations from a broad spectrum of sectors – traditional healthcare delivery, government, private industry, startups and scale-ups, innovation accelerators, and more. This year promises to deliver more of the same in- depth thought-provoking interactions and collaborations.	
St. Joseph's Celebrate Research Day (October 24 th)	Gail Martin (St. Joseph's)
St. Joseph's will be having it's 5 th annual celebrate research day. This provides an excellent opportunity for people to get a very clear snapshot of what's happening from a research perspective at St. Joseph's Healthcare. There will be poster presentations by investigators, graduates, and others. There will also be a cocktail reception afterwards. Electronic registration will be posted shortly.	(
Gail Martin is looking for people who might be interested in acting as judges – if you're interested please reach out to (<u>gmartin@stjoes.ca</u>)	
Career & Calling: Redeemer College Networking EXPO (Oct 30 th)	Sandy Ma (Redeemer
Join us on Wednesday, October 30 for Career + Calling, a networking expo presented by Redeemer's Centre for Experiential Learning and Careers (CELC).	College)
The event is an opportunity for employers and Redeemer students to discuss co-ops, internships, work-integrated learning and future careers. It is free to students. Employers, please register below.	



Discussion	Presenter
 <u>Hacking Health Hamilton Hackathon</u> (Nov 8) Hacking health is an organization that brings together organizations to hack through a problem over the course of the week. The theme is going to be open – we're looking for companies to come with problems that are of interest to them. We've has already had discussion with Hamilton Health Sciences (HHS) about pitch points to help build a team around. Reliq Health was an example of a company that came out of a hackathon. For more information, please contact Cynthia Lokker (lokkerc@mcmaster.ca) 	Cynthia Lokker (Hacking Health)
 <u>National Call for Applications – 3rd Annual 2020 Niagara Investment Summit</u> (Feb 5-7, 2020) OBIO is pleased to announce a <u>national call for applications</u> from health science companies who are seeking Series A or beyond investments to participate in OBIO's 3rd annual <u>2020 Niagara</u> <u>Investment Summit</u> on February 5-7, 2020. Building on the success of our 2019 Summit, featuring hundreds of company-investor introductions, the 2020 Summit will bring top-ranked global investors to Niagara-on-the-Lake, Ontario to meet with 30 of Canada's most innovative health science companies. The theme of the 2020 Niagara Investment Summit is the Future of Medicine. In company presentations & one-on-one meetings, the Summit will highlight Canada's most investable health sciences companies across therapeutic, medical device, diagnostic & digital health sectors. 	OBIO
 <u>Hamilton Health Sciences Foundation's Gala is returning to LIUNA Station</u> (March 7, 2020) You are invited to join us for another amazing experience as we raise funds for vital research at Hamilton Health Sciences. Secure your sponsorship now for what will be an incredible evening of entertainment! Our 2019 Gala sold out early. As you plan your 2020 budget, avoid disappointment by making your sponsorship commitment today. Contact Tamara Pope (<u>popetamara@hhsc.ca</u>) or Milaina Wright (<u>wrightmila@hhsc.ca</u>) for full details. View a listing of available <u>sponsorship</u> <u>opportunities</u>. 	HHS



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
Synapse engages companies and organizations from outside the region that may be interested in engaging with the Hamilton ecosystem – including those that are seeking to establish a presence in Hamilton or that wish to partner with Hamilton resources and capabilities. For more information about upcoming engagement, or for assistance in hosting inbound	Alex Muggah (Synapse)
visits that may be of interest to the broader community, please contact Alex Muggah: <u>Alex.Muggah@SynapseConsortium.com</u>	
 Recent visits to/from Hamilton: <u>Recent</u>: City of Mississauga life science consultant visit (July 15). Two members of Mississauga's economic development team will be coming to Hamilton to learn about Innovation Factory and our life science community and ecosystem. Opportunity to share what is happening in Hamilton and the success of our Consortium and to learn more. 	
Upcoming site visits to/from Hamilton	
 <u>Upcoming</u>: Visit to Buffalo (September). Several Synapse Consortium members will be down in Buffalo to continue dialogue with potential partners <u>Upcoming</u>: Nordic Companies Site Visit to Hamilton (Fall): Innovation Norway and their Nordic partners are expected to bring 6-12 Nordic companies, as part of a visit to Ontario, looking to explore potential collaboration opportunities. This builds on existing <u>commercialization project</u> between Ably Medical and the GERAS centre <u>Upcoming</u>: EIT Health Go Global Canada 2019 (November). Thirteen innovative European SMEs will embark on a ten-day immersion roadshow in the fall to British Columbia, Ontario and Quebec. They will see meetings with local life science players – KOLs, cluster, health systems and other stakeholders. Their objective is to increase visibility, understand local innovation trends and healthcare market access. GO GLOBAL aims to provide companies in medtech, biotech and digital health with the competence needed for international expansion. 	
Secure McMaster Engineering Co-ops Now	Nayelli Perez
In regards to term start dates, we have students starting every term (Sept, Jan, May). Length of placement can range from 4-16 months (this link provides examples of Co-op sequences). More information on our program can be found at our <u>Engineering Co-op website</u> . Specific Engineering Co-op Programs <u>for each program</u> or a <u>listing of engineering Programs /</u> Departments. Of interest to the community will be Co-Ops in the areas of Biomedical, Biotechnology, Chemical, Computer, Manufacturing, Materials Science and Software.	(McMaster)
If you are interested in learning more or hiring a Co-op student through this program, you can contact Nayelli Perez – Career Development & Relationship Manger at perezn3@mcmaster.ca	



Discussion	Presenter
Advice on Navigating BREXIT – September Session	Giselle Vincett (Yordas Group)
The UK government is now ramping up for the likelihood of a no-deal. This means they are preparing for what they are calling UK-REACH, which means they are thinking about the chemicals regulations for exporters (whether of chemicals directly, in formulations, or in products over a certain tonnage per year). For some companies, this might be most relevant in things like biocidal products.	
For some companies, they will need to start the registration process before the UK actually leaves the EU at the end of October! That doesn't give people much time.	
Another wrinkle is that if a company had an EU Only Representative (someone who takes on the liability of importing chemicals into the EU for a non-EU exporter), and the company wants to continue to export to the UK, they will need a UK-based OR. Again, this process needs to be started now or run the risk of non-compliance.	
If you would like to learn more, or participate in the information session at the end of September, please reach out to Giselle Vincett (<u>g.vincett@yordasgroup.com</u>)	
<u>Accelerating Success for Women Entrepreneurs (ebook)</u> Over the past year Innovation Factory has built a library of blog posts, online resources, and templates to support the Accelerator for Women in Entrepreneurship program and captured it in the e-Book, Accelerating Success for Women Entrepreneurs.	Jennifer Gauvreau (iF)
iF_Hamont Accelerating Success for Women Entrepreneurs eBook is now available to read online or download. Check out all the great insights and knowledge in this eBook from the Accelerator for Women in Entrepreneurship: awe.innovationfactory.ca	
Read it online at ebook.innovationfactory.ca, or download the PDF here.	
2nd Collaboration Day Seeks New Supercluster Projects (Oct 2)	NextGEN Canada
NGen is looking for companies who want to pitch an idea for a Supercluster project at CMTS. Next Generation Manufacturing Canada (NGen) will host its second call for Supercluster projects with a collaboration event to be held as part of this October's Canadian Manufacturing Technology Show in Toronto. Companies will present their project ideas from 3 to 5 PM on Wednesday, October 2 in a session open to all attending the high-profile industry show	Canada
The CMTS collaboration event will feature presentations by companies that have developed project ideas and are looking for partners to form a consortium to deliver the project. Projects generally require at least three partners, including an SME, to be eligible for Supercluster funding.	
Apply: MaRS Healthy Neighbourhoods Data Challenge (deadline Oct 24)	Alex Muggah
Are you an innovator who can identify and/or create new data sets, data sources and methodologies to improve our understanding of physical environments and promote healthy living? Apply for the MaRS Healthy Neighbourhoods Data Challenge by October 24!	(Synapse)



Discussion	Presenter
NSERC Alliance grants: Canada's Research Partnerships Program Alliance grants encourage greater collaboration in Canada's R&D system by providing support for projects that include both generators and users of research results and knowledge. Alliance is designed to be more responsive and flexible for our research community and to accommodate a broader range of partners. It also includes incentives for collaborations with small and medium-sized enterprises and multi-sectoral partnerships, and offers an accelerated means for projects to scale and grow.	Trish Barrow (NRC - Canada)
 A few key benefits: Single point of entry to rapidly develop new partnerships, or facilitate the growth of existing research collaborations. 	
 Support for projects of different levels of scale and complexity, from new, short term, one-on-one collaborations, to larger multi-stakeholder research teams. Enhanced flexibility in the types of projects and partners, providing more opportunities for more innovative collaborations. Supports research focused on outcomes as well as the training of research talent in a multi-partner environment. Streamlined application process resulting in faster decision times, thereby supporting modern and fast-breaking research. 	
Alliance will be launched in a phased approach. On May 21st, Option 1 will be open for applications requesting \$150,000 or more annually from NSERC. Option 1 for applications requesting less than \$150,000 annually from NSERC, as well as Option 2, will be phased in gradually. Please continue to check the website for the latest information and sign up to the mailing list on the Alliance webpage.	
Transition plans for NSERC's previous suite Research Partnership programs	
Budget 2018 directed NSERC to consolidate its Research Partnership grants into a single grant program in an effort to modernize, simplify and improve the grants. As such, Alliance grants will consolidate Engage grants, Industrial Research Chairs, Connect grants, Strategic Partnership grants for Networks and Projects, Experience Awards, and Collaborative Research and Development grants.	
Government of Canada's Student Work Placement Program (SWPP)	Alex Muggah
Thinking of hiring a student studying in science, technology, engineering, mathematics or business student? You may be eligible to receive up to \$7,000 in wage subsidies! Check out the 10 employer delivery partners below. Access this funding for your next co-op hire!	(Synapse)
As part of the Government of Canada's Student Work Placement Program (SWPP), formerly known as the Student Work-Integrated Learning Program (SWILP), a variety of funding opportunities are available for employers to hire students for the purposes of experiential learning. This funding is being administered by Employment and Social Development Canada.	



Discussion	Presenter
Through SWPP, organizations within Canada that offer full-time employment opportunities between 12-16 weeks for full-time Canadian post-secondary students can receive wage subsidies:	
 up to 50% of the wage cost for the placement (up to a maximum of \$5,000 per placement) per student OR 	
up to 70% (up to a maximum of \$7,000 per placement) for under-represented students including first-year students, women in STEM, indigenous students, persons with disabilities and newcomers.	
Apply: J&J Nurses Innovate Quickfire Challenge in Maternal & Newborn Health	Alex Muggah
Nurses around the world are invited to submit innovative ideas aimed at improving maternal & newborn care – including but not limited to neonatal care, obstetrics, and women's health. The nurse innovators with the best idea(s) will receive up to \$100,000 in grant funding, mentoring from experts across the Johnson & Johnson Family of Companies, and access to the Johnson & Johnson Innovation – JLABS ecosystem to help bring their ideas to life. In addition, nurses who are members of AWHONN will be recognized and receive complimentary access to the AWHONN 2020 Annual Convention in Phoenix, Arizona, provided by AWHONN.	(Synapse)
As innovators on the frontlines of healthcare, Nurses have the power to profoundly change lives. Johnson & Johnson has the scale, resources and know-how to help move them forward. Put these two together, and that changes everything.	
We are looking for ideas from practicing & retired nurses around the world focused on improving maternal and newborn health.	
Potential solutions will be evaluated by a panel of independent reviewers and judges on their ability to meet the following criteria:	
Uniqueness of the idea	
Potential impact on human health	
Feasibility of the idea	
Thoroughness of approach	
Identification of key resources and plan to further idea	
Social Impact Grants – Dubai Expo (due Septembre 15)	Petia
Dubai will be hosting the 2020 Expo, a showcase for companies and countries around the world. The Expo will run October 2020 – April 2021 and will bring thousands of people to Dubai to explore new technologies.	Tchoukaleyska (Trade Commissioner)
In the build-up to the Expo, the organisers are offering grants to accelerate and promote creative technologies. The programme awards funding of up to USD \$100,000 each to social enterprises, start-ups and grassroots projects from around the world, based on their potential to impact the environment positively and generate real social value.	
The focus areas for funding will be on innovative solutions that encapsulate the spirit of Expo 2020 Dubai's theme 'Connecting Minds, Creating the Future' and Expo's three subthemes:	



Discussion	Presenter
Opportunity, Mobility and Sustainability. Canadian entrepreneurs, SMEs, non-profit organisations and government entities are encouraged to submit their solutions for consideration.	
If a project is selected, the team's travel and accommodation to Dubai to undertake the pitch would be covered separately (beyond the \$100,000). If selected, teams would be flown in to Dubai in the first week of February 2020. Successful pitches will sign an implementation plan and a budget as part of a grant agreement.	
The deadline to apply to the 5th cycle is September 15th, 2019. Three Canadian projects have so far been funded by Expo Live: Enersion (cleantech), Attollo Se Inc (edtech) and The Plastic Bank (waste management). You can find details here.	
The deadline is coming up quick, so <u>companies should check out details and apply via the</u> <u>Expo website</u> .	
Hamilton Innovation Partnership Portal	Andrea Lee
Synapse has created the <u>Hamilton Innovation Partnership Portal (HIPP)</u> to make the process simpler and more streamlined to find new partners within Canada's leading health research and educational ecosystem.	(HHS)
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.	
Portal is online through the Synapse website: <u>http://synapseconsortium.com/partner/</u>	
MGDII Educational Webinars & DevTank Meetings	Sarrah Lal
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:	(MGDII)
 DevTank Meetings DevTank: "Nudging Healthcare Behaviour: Opt-Out Organ Donation" Presenter: Mackenzie Cullip, MGD Innovation & Commercialization Consultant July 30 4:00 – 6:00 PM <u>Register here</u> 	
Webinars	
 Pitching to Different Audiences - Compelling Value Propositions September 5 12:00 - 1:00PM <u>Register here</u> Human-Centred Design: Needs Assessment and Problem Definition September 12 12:00 PM - 1:00 PM <u>Register here</u> 	



Discussion	Presenter
 Competitive Analysis: Market Research and Patent Searches September 19 12:00 PM - 1:00 PM <u>Register here</u> 	
<u>3i Ontario</u> 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)

