

- Date:** Tuesday September 11, 2018
- Location:** NANUC building, which is located behind the Heritage Medical Research Centre and Li Ka Shing at the University of Alberta just off of 112th St and 87th Ave.
- Organizers:** Michael Overduin, Professor, Dept of Biochemistry overduin@ualberta.ca, 780 222 6281
Cameron Smithers, PhD Student, Dept of Biochemistry, csmither@ualberta.ca, 587 930 4786
- Chair** Scott Reed, Brass Dome Ventures
- Vice-Chair** Joanna Preston, TEC Edmonton
- Advisors:** See list of legal, investment and business experts below
- Website:** www.discoverylab.ca
- Sharing:** Plans and agenda are viewable on www.Dropbox.com/home/DiscoveryLab
- Public Transportation:** The University and Health Sciences Light Rail Train Stations are a few minutes' walk.
- Parking** Parking is available just south of 87 Ave. on the west side of 112 St, and in parking lots on campus including the Timms/Telus Centre (87 Ave & 112 St) and Education Carpark (87 Ave & 114 St). There is limited street parking on the east side of 87 Ave in Garneau.
- Agenda** Presenters may be academic researchers, clinical scientists, or directors of spin outs or SMEs, and may present their unique edge, market leading position, team, partners, type of intellectual property, business strategy, products/services being developed, investment needed, and timeframe for delivery and exit. Presenters are asked to identify key questions or issues they would particularly like advice on.

Schedule for September 11

- 10:30-10:45 am Panel convenes over coffee to discuss new plans and past presenter progress/needs
- 10:45-11:00 am John Lewis, Professor, Dept of Oncology and CEO, [Entos Pharmaceuticals](http://EntosPharmaceuticals.com),
john.lewis@entospharma.com
- 11:00-11:15 am Vivian Mushahwar, Professor, Division of Physical Medicine & Rehabilitation
vivian.mushahwar@ualberta.ca
- 11:15-12:00 David Marchant, Assistant Professor, Medical Microbiology and Immunology
marchant@ualberta.ca, Leanne Bilawchuk lbilawch@ualberta.ca, Frederick West
fwest@ualberta.ca
- 12:00-1:00 pm Seminar and Lunch
- 1:00-1:45 pm **Len Wiebe**, Adjunct Professor, Division of Oncologic Imaging on [WWiKY Theranostica Inc.](http://WWiKYTheranostica.com)
Leonard.wiebe@ualberta.ca
- 1:45-2:10 pm Amir Reshef, Founder and CEO of [DealClosers](http://DealClosers.com)
- 2:10-2:30 pm Yiming Chen yiming13@ualberta.ca
- 2:30-3:15 pm **Roger Zemp**, Professor, Electrical and Computer Engineering on [illumiSonics Inc.](http://illumiSonics.com)
rzemp@ualberta.ca
- 3:15-3:30 pm Break
- 3:30-4:15 pm Dennis Hall, University Professor, Department of Chemistry on *Boron Heterocycles: New Chemical Space for Drug Discovery* dennis.hall@ualberta.ca
- 4:15-5:00 pm Kristina Rinker, Lead, *Early Cancer Detection Initiative*, University of Calgary
tina.rinker@ucalgary.ca
- 5:00-5:15 pm **Nicole Sanchez** on [Hempact](http://Hempact.com), nsanchez@ualberta.ca
- 5:15-6:00 pm Food & Drinks Reception

Format:

The panel will first meet in private to discuss the purpose, agenda and executive summaries. Each team meets individually with the panel of about 5-8 experts for a closed (non-public) round table discussion, with each team giving short presentation, followed by Q&A, evaluation of the team, presentation and plan, and a reception. The aim is to encourage exchange of ideas and contacts. Advisors are requested to provide constructive advice to the individuals, spin outs and small companies presenting who may have intellectual property and initial funding for commercial development but are looking for expert guidance and support at a vulnerable stage of translating their innovations into useful market solutions or scaling their business.

Discovery^{Lab} Panel Members

Brett Clelland joined Parlee McLaws LLP as an associate in 2015, after working as a summer student and completing his articles with the firm. His practice is focused on the area of intellectual property law. During his articling year, Brett gained experience in the preparation and prosecution of patent, trademark and industrial design applications, providing patent and trademark opinions, trademark opposition proceedings, and copyright matters. Prior to entering the legal field, Brett graduated with a Ph.D. from the University of Alberta, where his research experience encompassed the areas of molecular biology, protein and nucleic acid biochemistry, and microbiology. Following this, Brett attended law school in order to pursue a career in intellectual property.



Carmen Wyton, Founder & President of Ripple Enterprise, has 25 years of experience in the non-profit sector – in health, human services, disabilities, education and employment. Areas of expertise include experience in strategic planning, government relations, policy influence, stakeholder relations, fund development, formation of sustainable relationships with stakeholders, and identifying innovative solutions with measurable outcomes and high return on investment. She has worked on policy development, advocacy and government relations in health, pharmaceuticals, non-profit, recreation and disability sectors.



Colin Coros, Chief Commercialization Officer at Nanostics Inc. As Executive in Residence at TEC Edmonton, Colin provided mentorship in areas of health sciences, company mentoring, and strategic consulting. As the CEO of the Delta Genomics Centre, he built a national biobanking, genotyping and sequencing company for the livestock industry. He is also the co-founder of Helios Genomics, a metagenomics company specializing in the Energy sector, and former executive of Livestock Gentec. Colin holds a PhD in Biochemistry from the University of Western Ontario, an MBA

from University of Saskatchewan's Edward School of Business, and completed postdoctoral studies at the Wadsworth Centre in Albany, New York, and the University of Calgary.



Cory Janssen is President of Galt Capital, a private investment firm, and co-founder of Janalta Interactive, an online media company. He is also a director at Brace Tool Inc, a private oilfield tools company. He was a co-founder of Investopedia.com, a financial education site that provided content and tools to help educate individual investors. Cory is past-President of the Edmonton chapter for Entrepreneur's Organization (EO) and active in the Edmonton entrepreneurial community as a member of the A100 as well as the Venture Mentoring Service (VMS) program at the University of Alberta. Through Janalta Interactive, Cory is in startup mode again with a new machine learning venture

to help solve old problems in new ways.



Harold Jahn is the founder and sole shareholder of Prosperity Investments LLC. He has over 30 years of international business experience in the industries of renewable energy, internet, mining, energy, real estate development, fintech, and commercialization of new technologies. He has developed an extensive network of professionals globally in industry, locally, and politically to ensure successful ventures. His long term goal is to create a minimum of 1,000 full time positions per annum in smaller communities throughout the US and Canada.



Deborah James is the Executive Director of Innovation in the Faculty of Medicine & Dentistry, University of Alberta and is CEO of eDJe Consulting Inc, a strategic healthcare consulting firm with a commitment to upholding the tenets of sustainable health and health care. Deborah's ability to conceptualize and persuasively deliver new ideas contributes to her success at business development. She has expertise in precision medicine, in vitro diagnostics, pharmaceutical development, genomics, immunology and translational sciences.



Joanna Preston is Associate Director of the Technology Management team (Health Sciences) at TEC Edmonton, and oversees the provision of IP management and commercialization services to local inventors in the health sciences area. She spent a decade in production roles in the biomanufacturing industry, first with a private Alberta firm, and later with the Alberta Research Council. She holds a Bachelor of Science in Genetics and an MBA in Technology Commercialization, both from the University of Alberta. Joanna is a member of the Association of University Technology Managers and the Licensing Executive Society. She is also a case study discussion leader for the Canadian Intellectual Property Office and a grant reviewer for the Canadian Institute of Health Research.



Mark Benning is an experienced entrepreneur who founded and led four investor-backed, technology startups in Silicon Valley, California over a 20-year period. As an Executive in Residence at TEC Edmonton since 2017, he acts as a mentor to entrepreneurs and executives and as an advisor to TEC's Business Development team. Over the years, he has worked for various private equity and venture capital firms and has raised over \$100 million in angel and venture funding for his startups and others he advised. He has a BA in Economics from Harvard University and an MBA from Stanford University, where he focused on leadership and entrepreneurship.



Matthew Parker, Content Strategist and Technical Advisor at the Sinai Health System in Toronto, is focused on facilitating and mentoring early to mid stage commercialization opportunities. In his role, Matt has developed business plans for and supported companies focused on healthcare innovation primarily in regenerative medicine and diagnostics. Matt has worked to promote easier access to the hospital resources for outside companies and has a passion for bringing Canadian research from the bench to the bedside. Matt has a PhD in Biochemistry from the University of Victoria and an MBA from the Schulich School of Business with a specialization in Health Industry Management.



Ray Muzyka is the CEO & Founder of ThresholdImpact. He originally trained as a medical doctor, and cofounded and was CEO of BioWare, a video game development studio. BioWare was acquired by Electronic Arts in 2007, and Dr. Muzyka took on the roles of Senior Vice President at Electronic Arts and General Manager of EA's BioWare division. At ThresholdImpact he focused on sustainable, profitable impact investing: mentoring and angel investing in information technology, new media, and medical innovations with social entrepreneurs. An active angel investor and entrepreneurial mentor, he is a member of the Young Presidents' Organization, the A100, the Ashoka Support Network. He is Chair of the University of Alberta's entrepreneur Venture Mentoring Service and a venture advisor at iNovia Venture Capital.



Riya Ganguly, Innovation Coach, University of Alberta, developed her career in research partnerships and technology development as a Technology Manager at the University of Manitoba where she was involved in patenting and negotiating licensing agreements with commercial partners. She worked with Innovate Calgary as an Intellectual Property Manager, supporting industry partnerships and technology-transfer activities. Riya obtained her master's degree from York University, where she focused on adipokines in cardiovascular disease, and her PhD focusing on nutraceuticals and cardiovascular disease from the University of Manitoba.



Ryan Heit has a diverse background in research, technology commercialization, business development, and financing early stage companies. Ryan has provided business planning and company development for many early-stage, technology-based ventures in health-related fields in his position at TEC Edmonton and as an independent consultant. Additionally, he has helped multiple Alberta companies in obtaining financing in his role with the angel investing network, TEC VA. He received his Masters in Experimental Oncology and his Masters of Business Administration with a specialization in Technology Commercialization from the University of Alberta.



Samarendra N. Maiti, Brass Dome Ventures, obtained his PhD from the Kalyani University, West Bengal, India in 1980. He has over 35 years of experience in medicinal & synthetic chemistry and has collaborated with large pharmaceutical companies in important therapeutic areas such as, antimicrobials, cardiovascular, CNS, and metabolic disorders. He has written chapters in two books, written five reviews, and has 15 patents and 60 publications. During the 35 years of his research career Dr. Maiti was involved in three antimicrobial projects that successfully produced three clinical candidates, one of which is already in the market, and two that are in development.



Sameeh M. Salama, Vice-President of Business Development at Brass Dome Ventures Ltd., and VP of Fedora Pharmaceuticals Inc. He was formerly VP of NAEJA Pharmaceuticals Inc. where he was involved in over a dozen licensing and partnership agreements, including the licensing of NAEJA's Beta-lactamase inhibitors to Fedora Pharmaceuticals Inc. and later the licensing of the same assets to F. Hoffman La Roche in a US\$750 million deal. Dr. Salama was previously a Director of Microbiology at SynPhar laboratories Inc. He received his PhD in Medical Microbiology from the University of Salford, U.K. and postdoc'd at the University of Alberta.



Scott Reed is the Director, Business Development at Brass Dome Ventures . He obtained his Chartered Financial Analyst designation in 2007 and his MBA in 2013. He has been working in the financial and consulting industry since 2002. He has worked in both small and large organizations and has a variety of experience.



Ted Yoo, Partner at Bennett Jones, is a registered patent and trademark agent in both Canada and the United States. His practice covers all matters related to intellectual property, but is particularly focused on the preparation and prosecution of patent applications, licensing, patentability and freedom to operate opinions. With a background in microbiology and chemistry, and an enduring personal interest in all areas of technology, Ted acts for clients in the fields of biotechnology, nanotechnology, pharmaceuticals, forestry and agriculture, and the oil and gas industry. He is a Sessional

Lecturer in IP Law at the Faculty of Law, University of Alberta and has lectured in the Faculty of Engineering, University of Alberta.

Discovery^{Lab} Observers:



Betty Peavey, Director of Research, develops and leads the Faculty of Science's partnering strategy with companies of all sizes, helping them with their R&D challenges and advancing academic discoveries from the laboratory to commercialization. With more than 16 years of combined experience in academic research administration and industry partnerships, Betty understands the priorities of both academics and companies and knows how to facilitate effective collaborations that lead to results.



Janelle Goulard, Director of Health Investment, Pangaea Ventures Ltd. brings experience working in healthcare both in strategic and operations consulting and private investments for over eight years. Janelle has spent most of her career at GE Healthcare, based in both North America and Europe. She worked with both private and public health organizations and launched a startup that became a joint venture between GE and Microsoft. She is a master change agent and Lean Black Belt certified. She brings her experience as an Associate with a leading Canadian private equity firm. Janelle has an MBA from the University of British Columbia in Entrepreneurship and Innovation and a BComm from McGill University.



Marita Hobman served as the Director, Intellectual Property and Business Development at Biomira/Oncothyreon, a mid-sized biopharmaceutical company, for over ten years. She also contributed to University of Alberta research management and commercialization as the Executive Director, Financial Operations and Strategic Development for Livestock Gentec and as Senior Manager, Partnerships, at the Research Services Office. Her experience spans IP management, technology licensing, industry/academia research collaboration management and contract negotiations. Marita has a Ph.D in virology from University of Goteborg, Sweden, and an MBA from University of Alberta, where she is Assistant Chair, Administration, Department of Biochemistry. Before moving to Alberta, she conducted post-doctoral research at University of British Columbia and University of California, San Diego.



Michael Oshry began his entrepreneurial career establishing a diverse number of local businesses in retail, hospitality and business services fields. He co-founded and served as President and CEO of Firma Foreign Exchange Corporation, which facilitates foreign exchange transactions and payments for small and medium size enterprises. He was awarded the Ernst & Young Entrepreneur of the Year award. Michael was elected to represent Ward 5 on Edmonton City Council. He is a past board member of the Alberta Chapter of the Young Presidents' Organization (YPO) and is currently a board member of the Alberta YPO Gold Chapter.



Marc Leduc, Senior Provincial Director, Innovation & Research Management at Alberta Health Services.



Thomas (Yong-il) Ahn is CEO at Mad Ventures, which is pioneering a novel model of startup investment to Western Canada. Through proper leveraging of Internet technologies, we developed a system to incubate early-stage innovators without the need for the startup companies to physically relocate. This minimizes downtime and business interruption, which have been traditional issues in incubation. We call our process "I-cubation." I-cubation, as defined by MAD Ventures, is more than just providing money and management expertise to growing companies. It has extensive business connections around the world and has a keen interest in helping Canadian businesses secure business opportunities in the Asia Pacific region. By ensuring the right mix of R&D, Venture Capital, and business development, MAD Venture's I-cubation process ensures promising innovators have the best chance of realizing their visions.



Andrea Drager is Vice President at Azure Capital Partners, a San Francisco-based venture capital firm with over \$750 million under management. Based in their Calgary office, she evaluates investment opportunities across Canada and works with all of Azure's Canadian investments and selected consumer investments in the US. Immediately prior to joining Azure, Andrea cofounded a fashion and travel ecommerce company. Prior to founding her own company, Andrea was a director with strategy consulting firm Monitor Deloitte, where she worked with industry-leading consumer business and healthcare companies in the areas of innovation, marketing, and growth strategy. She has been based in Paris, London, Toronto, and Vancouver, and worked with clients across North and South America, Europe, and Africa. Andrea received a Bachelor of Commerce degree from McGill University.



Julie Woda is a Director of Technical Operations at **BioMotiv**, and has over 23 years of biological research and drug development experience. Prior to BioMotiv, she worked as Director of Translational Research for Juventas Therapeutics in Cleveland, overseeing all aspects of preclinical development of novel biologics. Juliana also spent four years at Athersys (Cleveland) as a Scientist and later Senior Scientist in Regenerative Medicine, developing cell therapy for the treatment of cardiovascular, immunological, and neurological indications. Juliana completed her PhD in Biological and Biomedical Sciences at Harvard University, specializing in Cell and Developmental Biology. Her postdoctoral fellowship with Massachusetts General Hospital focused on examining the normal function of the protein mutated in Huntington's Disease. Juliana holds an undergraduate degree from Rutgers University.



Charles McOsker is Project Operations Director at **Biomotiv** and has over 30 years of experience in both the pharmaceutical and biotechnology industries. Before joining BioMotiv in 2012, he founded Airway Therapeutics, a biotechnology company created to develop promising therapeutics arising from within the pulmonary research program of Cincinnati Children's Hospital Medical Center, where he managed the early stages of the company's technology development and fundraising. Previously, he served as Director of Business Development for the Drug Discovery Center at the University of Cincinnati where he was responsible for negotiating agreements with a potential value to the University of over \$30 million. He began his career at Procter & Gamble

Pharmaceuticals. Over the course of 23 years, he held numerous management positions in drug discovery and development and was responsible for teams that discovered two products that successfully entered late-stage clinical development. He received his undergraduate degree in chemistry at Hope College in Michigan and his PhD in biochemistry and molecular biology at Cornell University.



Brooks Tanner, Founder and President of **Sunburst Ltd.**, is a Real Estate sales and marketing specialist who offers knowledge and expertise to developing sales and marketing solutions. Entrepreneurial spirit, work ethic and a strong technical background has contributed to this track record of successes. Brooks has applied his skills to multi-family marketing and sales since he began his real estate career in 1998, where he was quick to realize how leveraging technologies could streamline processes and systems, and contribute to efficient and effective real estate marketing and sales. As a senior-level relationship builder, Brooks creates, mentors and manages teams who have consistently increased operating results, delivered sales revenues and increased the value. He has been involved in the trade of more than \$150 million in real estate.



Peter Ciechanowski, Lawyer, **Alberta Justice and Solicitor General** - Energy Legal and Research Analyst, with a Juris Doctor (J.D.) in Law and Master's degree in Public Health with Specialization in Environmental and Occupational Health from the University of Alberta.