

# BBME seminar schedule

- Potential speaker for BioEng for Winter 2026
  - Dr. Jorg Fritz (McGill) as his talk was cancelled Winter 2025
- Potential BME speakers for Winter 2026:
  - New BME Associate Member - Martin Vallières
  - Collaborator of Prof Sara Mahshid: Mahla Poudineh (U Waterloo)
  - From Ahmad:
    - Warren M. Grill, Duke University
    - Prof Ali Samadani, Johnson and Johnson
  - From David:
    - Dino DiCarlo, UCLA \*\*\*
    - Randy Carney, UC Davis EVs
    - Axel Guenther, UofT
    - Dr. Milica Radisic, UofT \*check when did Juncker lab workshop and MRM
    - Mark Miller, McGill (Adjunct) \*\*
    - Kevin Welsher

## Winter 2026

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
January 9	Online		Ahmad Haidar Dan Nicolau		Introduction to Course
January 16					
January 23	In-person	BME	Martin Vallières Introduction - David Juncker	Bronfman Department of Oncology & Medical Physics Unit, McGill University	
January 30					
February 6					
February 13	Virtual	BME	Ali Samadani	Johnson and Johnson	
February 20					
February 27					
March 6	Reading Week				

March 13	In-person				STUDENT SYMPOSIUM
March 20	In-person	BME	Warren Grill	Duke University	
March 27					
April 3	GOOD FRIDAY- NO CLASS				
April 10	In-person	BME	Tom Soh Introduction - David Juncker	Stanford University	
April 14 (Tuesday, follows Friday schedule)					

## Fall 2025

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
August 29			Ahmad Haidar Dan Nicolau		Introduction to Course:
September 5	In-person	BME	Loic Binan (intro: David Juncker)	Human Genetics	Pizza Lunch before the seminar
September 12	In person	BE	Dan Nicolau	McGill	
September 19	Online	BME	Hanif Ladak (Introduction:	University of	

			Robert Funnell)	Waterloo	
September 26	In person	BE	Dan Nicolau	McGill	
October 3	In person	BME	Philip Warrick (Introduction: Rob Kearney)	PeriGen	
October 10	In person	BE	Henry Hess	Columbia University	
October 17	Reading Week				
October 24					STUDENT SYMPOSIUM
October 31					STUDENT SYMPOSIUM
November 7	In person	BME	Michael Doellinger (Introduction: Nicole Li-Jessen)	Friedrich-Alexander University, Germany	
November 14	In person	BE	Steve Michnick	UdM	
November 21	In person	BME	David Walt (Introduction: David Juncker)	Harvard	
November 28	Online	BE	Lorena Betancor	ORT University	

## Winter 2025

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
Jan 10	Remote/Zoom	--	Introduction class: by Guojun and Ayyappa	--	--
Jan 17	In-person	BioEng	Annie Shuk On Leung	MUHC	To be confirmed, researching and practicing on cervical cancer and diagnostics.
Jan 24	On line	BioEng	Satish Sati	University of Pennsylvania (UPenn)	Tissue regeneration associated with aging and neurodegenerative diseases
Jan 31	online	BioEng	Naresh Yandrapalli	Max Planck, Germany	Bottom-up development of synthetic cells using microfluidics for practical applications
Feb 7	In person	BME	Vincent Tabard-Cossa	UOttawa	development of novel techniques and methods to manipulate and characterize single-molecules using nanopore devices
Feb 14	Zoom	BME	Eugenia Kumacheva	UoT	
Feb 21	In person	BME	Evan Scott	U Virginia	--

Feb 28	In person	BME	Shuaiqi Guo	McGill Departm ent of Anatomy and Cell Biology	
March 7	Reading break				
March 14	In-person	--	STUDENT SYMPOSIUM		
March 21	In-person	BME	James Tsui, Dr.	McGill	
March 28	in-person	BioEng	Jörg Fritz, Dr	McGill	On novel LNP for RNA therapeutics (to be confirmed)
April 4		BioEng	Henry Shum	UWaterloo	
April 11	In person	BME	Yong Zeng	University of Florida	

## Fall 2024

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
Aug 30	Remote/Zoom	--	Introduction class: by Guojun and Sara	--	--
Sept 6	In person	BME	Gueziri Houssein-Eddine		
Sept 13	Zoom	BE	Joanna Przybyl		
Sept 20	In person	BME	Joshua Vogelstein	JHU	
Sept 27	TBA	BE	Jesse Greener	Laval	
Oct 4	In person	BME	Piotr Pater	Gerald Bronfman Department of Oncology	
Oct 11	Zoom	BME	Hasan Uludag	U Alberta	--
Oct 18	Reading week	–			
Oct 25	In-person		STUDENT SYMPOSIUM		
Nov 1	In-person		STUDENT SYMPOSIUM		
Nov 8	TBA	BE	Cedric Yansouni	RI-MUHC	



Nov 15	In person	BE	Parisa Ariya	Chemistry- McGill	
Nov 22	Zoom	BE	Leyla Soleimani	McMaster	
Nov 29	Zoom	BME	Frank Gu	UofT	

Masad J. Damha

## Winter 2024

All seminars are at 1:30pm unless specified otherwise.

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
Jan 5	Remote/Zoom	--	Introduction class: by Guojun and Jasmin	--	--
Jan 12	In person	BME	Mohsen Akbari	Mechanical Engineering University of Victoria	
Jan 19	Virtual	BME	Udunna Anazodo	Montreal Neurological Institute (MNI), McGill University	

Jan 26	In person	BE	Elena Kuzmin	Department of Biology, Concordia University	
Feb 2	In person	BME	Anmar Khadra	Department of Physiology, McGill	
Feb 9	In person	BE	Jacek Majewski	Department of Human Genetics, McGill University	
Feb 16	Virtual/in person?	BME	Julia Valdemarin Burnier	RI-MUHC- Glen site	--
Feb 23	In-person	--	STUDENT SYMPOSIUM		
March 1	In-person	--	STUDENT SYMPOSIUM		
March 8	Reading Break				
March 15	In person	BE	Jianguo (Jeff) Xia	Institute of Parasitology, and Department of Animal Science, McGill University	
March 22	TBD	BE	Caroline Duchaine	Département de biochimie, de microbiologie et de bio-informatique, Université Laval	
March 29	Holiday				

April 5	Virtual	BME	Medhi Nikkhah	Bioengineering, Arizona State University	
April 12	In person	BME	Réjean Lapointe	Centre de recherche du CHUM	

## Winter 2024

Candidate 1 (BE): Nia, Hadi; [htnia@bu.edu](mailto:htnia@bu.edu)

Candidate (BME): Warren M. Grill (Duke).

Candidate (BME): Lianwang Guo (UA)

## Fall 2023

All seminars are at 1:30pm unless specified otherwise.

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
Sept 1	Remote/Zoom	--	Introduction class: by Guojun and Sara	--	--
Sept 8	zoom	BE	David Issadore	Bioengineering and Electrical & Systems Engineering, University of Pennsylvania	
Sept 15	In person	BME	Jeremy Cooperstock	McGill	

				Dept. of Electrical & Computer Engineering	
Sept 22	zoom	BE	Jennifer Ronholm	Faculty of Agricultural and Environmental Sciences, McGill	
Sept 29	zoom	BE	Hadi Shafie	Brigham and Women's Hospital, Harvard Medical School	
Oct 6	Reading week				
Oct 13	In-person	--	STUDENT SYMPOSIUM	--	--
Oct 20	In-person	–	STUDENT SYMPOSIUM		
Oct 27		BE	Livia Garzia	Orthopaedic Surgery, McGill	
Nov 3	Zoom	BME	Christine Allen	University of Toronto	
Nov 10	In-person	BME	James Mehta	McGill Innovation + Partnerships	
Nov 17	Zoom	BME	Emily Porter	McGill BME	

Nov 24	In-person	BE	Maureen McKeague	Department of Chemistry, McGill	
Dec 1	Zoom	BME	Ke Cheng	Columbia University BME	

## Winter 2023

All seminars are at 1:30pm unless specified otherwise.

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
Jan 6	Remote/Zoom	--	Introduction class: by David and Natalie	--	--
Jan 13		BME	No class		
Jan 20		BE	Anne Kietzig	McGill	Water- and ice-shedding learnt from penguins
Jan 27		BME	John Ronald	Western	
Feb 3	In-person	BE	Vladimir Brailovski	ETS, Montreal	Design, manufacture and testing of patient-specific prostheses
Feb 10		BME	Eddy Lang	University of Calgary	
Feb 17		BE		Concordia	Droplet-based microfluidics for

			Steve Shih		applications in synthetic biology
Feb 24		BE	Nabil Bassim	McMaster	--
March 3	–	–	Reading week		
March 10	In-person	--	STUDENT SYMPOSIUM		
March 17	In-person	–	STUDENT SYMPOSIUM		
March 24		BME	Satya Prakash	McGill	
March 31		BME	Richard Hoge	McGill	
April 13		BE	Student Symposium		

## Fall 2022

All seminars are at 1:30pm unless specified otherwise.

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
Sept 2	Remote/Zoom	--	Introduction class: by David and Sara	--	--
Sept 9	In person	BME	Leor S. Weinberger	UCSF	Discovery & Development of Therapeutic Interfering Particles: single-administration escape-resistant antivirals

Sept 16	In person	BE	Qian Liu	The Institute of Parasitology, McGill University	
Sept 23	Remote/Zoom	BME	Felix Dietlein	Department of Medical Oncology, Dana-Farber Cancer Institute, Harvard Medical School, Boston,	Genome-wide analysis of somatic noncoding mutation patterns in cancer
Sept 30	Remote/Zoom	BE	Xiaonan Lu, Dr.	Food Science and Agricultural Chemistry, McGill University	
Oct 7	In person	BME	Raphael Scharfmann	Université de Paris, Institut Cochin,	
Oct 14	Reading week				--
Oct 21	In-person	--	STUDENT SYMPOSIUM	--	--
Oct 28	In-person	–	STUDENT SYMPOSIUM		
Nov 4	zoom	BE	Kiana Aran	Department of Bioengineering, University of California, Berkeley	

Nov 11	In person	BE	ALEXIS VALLÉE-BÉLISLE	Département de chimie, Université de Montréal	
Nov 18	zoom	BE	Yong Zeng	Department of Chemistry, University of Florida	
Nov 25	Zoom	BME	John Ronald	Western University	Molecular imaging and its application for cell therapy
Dec 2	In person	BME	Ethan MacDonald	University of Calgary	

## Fall 2021

All seminars are at 1:30pm unless specified otherwise.

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
Sept 3	Remote/Zoom	--	Introduction class: by David and Codruta	--	--
Sept 10	Zoom	BME	Stephen Lomber	McGill	Acoustic Experience Alters how you 'See' the World
Sept 17	Remote	BME	Carolina Tropini	UBC	How the Gut Environment Shapes the Microbiota in Health and Disease
Sept 24	In-person	BE	Noemie-Manuelle	McGill	Sustainable and bio-functional



			Dorval Courchesne		materials derived from bacterial protein fibers
Oct 1	Remote	Beatty lecture from Anthony Fauci			
Oct 8	Remote	BE	Maricor Arlos	University of Alberta	Evaluating exposure to micropollutants: linkages of stressor concentrations to biological effects in aquatic organisms
Oct 15	Cancelled	--	--	--	--
Oct 22	In-person	--	STUDENT SYMPOSIUM	--	--
Oct 29	In-person	BME	Elizabeth Zimmermann	McGill University	
Nov 5	In-person	BE	Thomas Tompkins	Lallemand Inc.	
Nov 12	In-person	BE	Natalie Reznikov	McGill	
Nov 19	In-person	BE	Caroline Wagner	McGill	
Nov 26		BME	Andrew Curtis	Synaptive Medical	
Dec 3	Zoom (tentatively)	BME	Andre Hladio	Intellijoint Surgical	

## Winter 2022

All seminars are at 1:30pm unless specified otherwise.

Date	Mode of	Host Dept.	Speaker	Affiliation	Seminar Title
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	delivery				
Jan 7	Remote/Zoom	--	Introduction class: by David and Codruta	--	--
Jan 14		BME	Maryam Tabrizian	McGill University	Molecular and Cell Therapy Platforms for Applications in Nanomedicine and Regenerative Medicine
Jan 21	remote	BE	Liraz Chai	Hebrew University of Jerusalem	A multiscale study of bacterial biofilms. From isolated components to multicellular organisms
Jan 28	Remote	BME	Amir Nezhad	University of Calgary	Microfluidic electrochemical biosensors for point-of-care diagnosis and precision health
Feb 4	Remote	BE	Marion Cossin	CRITAC	
Feb 11	Remote	BME	Anna Blakney	UBC	Effects of Polymeric and Lipid Nanoparticle Self-Amplifying RNA Formulation on Protein Expression and Vaccine Immunogenicity
Feb 18		STUDENT SYMPOSIUM			
Feb 25		BME	Bo Wang	University of Toronto/Vector Institute	Learn to Integrate and Integrate to Learn: How Machine Learning Unveils Multifaceted Biology in a Single Cell
March 4	MARCH BREAK - NO SEMINAR				
March 11	remote	BE	Harikrishnan Parameswaran	Northeastern University	
March 18	TBD	BME	Blake Richards	McGill University/Mila	

March 25	remote	BE	Lorena Betancor	Universidad ORT Uruguay	Whole-Cell biocatalyst immobilization in the biotransformations of glycerol
Apr 1	remote	BE	Ming Guo	MIT	
Apr 8	In person (to confirm)	BE	MALLESIAIAH Mohan	University of Montreal	

## BMDE 600 (2020/2021 Academic Year - Past Lectures)

### Fall 2020

All seminars are at 1:30pm unless specified otherwise.

Date	Host Dept.	Speaker	Affiliation	Seminar Title
Sept 4	--	Introduction class: by Christine and Natalie	--	--
Sept 11, <b>1PM</b>	BME, Rob Kearny	Prof Jason Bates	University of Vermont	The Physics of Asthma
Sept 18	BE	Prof Marc McKee	McGill	Life at a crystal's edge: Molecular recognition and regulation at the organic-inorganic interface in biomineralization
Sept 25	BME, Christine Tardif	Prof Julien Cohen-Adad	Polytechnique, Montréal	Why isn't my 7T MRI showing 7T everywhere and why is that a problem? Real-time shimming with hybrid AC/DC coil technology
Oct 2	BE	Prof. Caroline Wagner	McGill	Engineering applications to global health: from biological gels to population-level transmission shumdynamics

Oct 9	BME, Christine Tardif	Dr Paul Weaver	Skope	<b>Making the Leap in Image Performance for MRI:</b> Field monitoring to compliment strengths of high field systems and a high strength gradients
Oct 16	BE	Prof Matthew J Harrington	McGill	Biological Fabrication of Hierarchically Structured Soft Matter
Oct 23	--	STUDENT SYMPOSIUM	--	--
Oct 30	BME: Maryam	Prof Milica Radisic	University of Toronto	Advances in organ-on-a-chip engineering and instructive biomaterials
Nov 6	BE	Prof Roland Kroeger	University of York, UK	Who is afraid of electron microscopy? How imaging the small scale reveals the bigger picture in Materials Science
Nov 13	BE	Prof Kaleem Siddiqi	McGill	Helicoids in the Heart
Nov 20	BE	Prof Jianyu Li	McGill	Biomechanical Design of Biomaterials for Tissue Repair
Nov 27	BME, Ahmad Haidar	Dr Ali Samadani	Philips Research	<a href="#">AI-enabled Solutions for Acute and Critical Care</a>
Dec 11 (This is outside of the course calendar)	BME	Dr Warrick		

## Winter 2021

Date	Host Dept.	Speaker	Affiliation	Title
Jan 8	--	Introduction class: by David Rudko and Natalie Reznikov	--	--
Jan 15	BME	Dr. Jun Ding	McGill University	Analysis and Modeling of Single-Cell Genomics Data to Drive Biomedical Discovery
Jan 22	BME	Dr. Thomas Edwardson	ETH Zurich	
Jan 29	BE	Prof. Codruta Ignea	McGill	
Feb 5	BME	Alex Iskold	2048 Ventures	
Feb 12	BE	Prof. Yaoyao Fiona Zhao	McGill	
Feb 19	BME	Dr. Arman Sarfehnia	University of Toronto/Sunnybrook	
Feb 26	--	STUDENT SYMPOSIUM	--	--
March 5	--	SPRING BREAK	--	--
March 12	BE	Prof. Luc Mongeau	McGill	
March 19	BE	Prof. Mark Driscoll	McGill	Biomechanics of the Spine – from disability to performance
March 26	BME	Dr. Guojun Chen	McGill	
Apr 2	--	GOOD FRIDAY	--	--

Apr 9	BE	Dr. Benjamin de Leener	Polytechnique, Montréal	Reducing biases in neuroimaging studies
<b>Friday</b> Apr 16	BME	Prof. Damiano Pasini	McGill	

Fall 2025

## Fall 2025

Date	Mode of delivery	Host Dept.	Speaker	Affiliation	Seminar Title
August 29			Ahmad Haidar Dan Nicolau		Introduction to Course:
September 5	In-person	BME	Loic Binan (intro: David Juncker)	Human Genetics	Pizza Lunch before the seminar
September 12	In person	BE	Dan Nicolau	McGill	
September 19	Online	BME	Hanif Ladak (Introduction: Robert Funnell)	University of Waterloo	
September 26	Online	BE	Lorena Betancor	ORT University	
October 3	In person	BME	Philip Warrick (Introduction: Rob Kearney)	PeriGen	
October 10	In person	BE	Henry Hess	Columbia University	
October 17	Reading Week				
October 24					STUDENT SYMPOSIUM
October 31					STUDENT SYMPOSIUM
November 7	In person	BME	Michael Doellinger	Friedrich-Alexander University, Germany	
November 14	In person	BE	Steve Michnick	UdM	



November 21	In person	BME	David Walt (Introduction: David Juncker)	Harvard	
November 28	In person	BE	Neal Pollock	Universite Laval	