

The logo consists of four red circular shapes arranged in a 2x2 grid, each partially overlapping its neighbors to form a central white square. To the right of this icon, the words "Weekly News" are written in a large, bold, black sans-serif font.

Weekly News

UBC School of Biomedical Engineering

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Announcements

SBME Symposium Spotlight: Murali Venkatesan, Head of Danaher Ventures

Our Annual SBME Symposium is dedicated to transforming health and healthcare. It serves as a dynamic platform to showcase the latest innovations emerging from our

school and facilitates meaningful connections with influential leaders from industry and academia who are driving new discoveries and advancements in the field.

We caught up with Murali Venkatesan, Head of Danaher Ventures and our keynote speaker, ahead of the Symposium to find out a bit more about his career path and learn what advice he gives to aspiring students and entrepreneurs.

[Please join us at the SBME Symposium as Murali dives deeper into these insights during his Keynote Address *The Role of Biotechnology in Advancing Human Health* on June 13.](#) We would like to thank Danaher for generously sponsoring this Keynote Address.

[Read the Full Interview Here](#)

[Learn More About the Symposium](#)

SBME Symposium Spotlight: Medtronic



We're excited to feature Medtronic's President of Patient Monitoring, Frank Chan, in an exclusive interview as part of our upcoming symposium on June 13th. In the interview, Frank will discuss Medtronic's mission and commitment to patient safety, as well as their involvement in the field of biomedical engineering. Don't miss this opportunity to hear from a leader in the industry and learn more about Medtronic's contributions to the field.

Professional Development Sessions & Research Talks

Disrupting the Status Quo: Intersecting Inequities Impacting Women in the Faculty of Medicine and Opportunities for Change

June 7 | 9:30 am - 1:30 pm

During this virtual event, hear from a diverse group of women about their perspectives on leadership, opportunities and barriers in the context of health professions practice, education and research. We will centre intersectionality and the differentiated experiences of women as we critically examine how current academic systems and hierarchies create additional barriers for women and ideas for change.

[Register](#)

Hearing Indigenous Voices During the COVID-19 Pandemic

June 8 | 9:00 am - 3:00 pm

Join this hybrid dialogue session to discuss lessons learned about conducting research and Indigenous resilience during the pandemic with researchers based in Canada, the United States, and New Zealand.

[Register](#)

New Insights into Bone Mineralization: Ultrastructural Features Revealed by 3D Volume Electron Microscopy Imaging

June 8 | 10:00 am - 11:00 am

The mechanical competence of bone is attributable to its organic and inorganic constituents and their three-dimensional (3D) organization at each length scale. Recent advances in focused ion beam-scanning electron microscopy (FIB-SEM) have allowed the interrogation of bone architecture in 3D at an unprecedented level and provide new insight into the structure-function relationships in bone. Here, an extensive sub-cellular nanochannel network that is significantly smaller than the well-known osteocyte canaliculi (microscopic channels connecting bone cells) was found penetrating the mineralized matrix of a variety of vertebrate biomineralizing tissues, including turkey leg tendon, mouse cortical bone and calcifying cartilage, and human femoral cortical bone.

The presence of this nanochannel structure has significant impact on the measurements of calcium content in bone utilizing the classic quantitative backscattered imaging technique. These nanochannels are suggested to provide conduits and pathways in permitting ion and small molecule diffusion throughout the extracellular matrix complementary to those of the cellular network.

Location: Frank Forward Building 317.

[Zoom link.](#)

Meeting ID: 663 1706 1901

Password: 85043

SBME Symposium

June 13 | 9:00 am - 5:30 pm

Join us and our outstanding community of faculty, trainees, industry and hospital partners, and students as we continue to define the future of health and healthcare at our annual Symposium.

- Learn from peers making an impact in the biomedical engineering field.
- Discover the latest research.

- Join our panel conversation on reconciliation and collaboration in biomedical engineering.

[Register by June 8](#)

We Haven't Even Begun the Conversation Yet: Establishing Meaningful Relationships by Derek Thompson

July 12 | 12:00 pm - 1:00 pm

To get involved and be a part of learning and input opportunities, SBME welcomes you to attend REDI events that we and other UBC groups host. Join us for our upcoming seminar with Derek Thompson.

[Zoom Link](#)

Meeting ID: 691 3157 8693

Passcode: 367629

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THE SBME COMMUNICATIONS TEAM
