

## **3D Bioprinting for Regenerative Medicine**

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### **Abstract**

Aspect Biosystems is a Canadian biotechnology company operating at the leading edge of 3D printing and regenerative medicine. Our proprietary microfluidic 3D bioprinting platform is enabling advances in biology, disease research, drug discovery, and regenerative medicine. Aspects current clinical pipeline of therapeutic tissues has two main areas of focus: orthopaedic implants and cellularized implants for metabolic diseases. Our lead orthopaedic indication is a personalized 3D printed meniscus tissue for treatment of patients with severe meniscal tears. Our second lead indication in preclinical development is an implantable 3D printed allogeneic tissue patch for treatment of Type 1 Diabetes. In addition to our internal therapeutic tissue programs, we strategically partner with pharmaceutical and biotechnology companies, as well as academic researchers, to create physiologically and commercially relevant tissues. These tissues are used to advance and accelerate drug discovery and development, and enable the creation of cutting edge tissue therapies of the future.

### **Biography**

An entrepreneur, engineer, inventor, Tamer currently serves as CEO of Aspect Biosystems. Tamer co-founded Aspect in 2013 and has played a leading role in the overall corporate, business, and technology development. Under his leadership, Aspect has secured significant funding, entered strategic collaborations with best-in-class pharmaceutical and biotechnology companies, and developed commercial products. In his previous appointment as Chief Technology Officer of the company, Tamer drove the innovation and development of the company's core technologies and intellectual property.



As a leader in the field of 3D bioprinting, he has been invited to speak on this topic at venues ranging from TEDx to industry, scientific and executive conferences. In 2017, he was awarded BC's Top 40 under 40 award for demonstrating excellence in business, judgement, leadership, and community contribution. Tamer serves on the Board of Directors for ACETECH, a non-profit training and mentoring organization for CEOs of technology and life sciences companies, and on the Board of Directors for The Stem Cell Network, an organization focused on building Canada's stem cell and regenerative medicine research sector.