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Cardiovascular tissue engineering using 3D printing technology

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Cardiovascular disease is one of the leading causes of death worldwide despite the variety of medical, mechanical and surgical strategies. We have developed novel 3D printing technologies that could change the practice of cardiovascular disease treatment, including patient specific 3D printed tissue engineered vascular graft and bio 3D printed cardiac tissue. Author will discuss insights of these new 3D printing technology as well as challenges; we need to overcome for future clinical application and commercialization.

Biography

Narutoshi Hibino completed his Medical degrees at Ehime University, Japan. He completed Cardiac and Cardiovascular Surgery fellowships and obtained board certifications at Tokyo Women's Medical University. Following a research fellowship for Tissue Engineering at Yale University, he completed Pediatric Cardiac Surgery fellowships at Children's National Medical Center in Washington and Nationwide Children's Hospital in Columbus, Ohio before joining the faculty at Johns Hopkins University School of Medicine.

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