Editorial

Journal of Biomedical Engineering and **Medical Devices**

Editorial: Basic and Advanced Artificial Organ Manufacturing

Tarun V*

*Department of Microbiology, Dayananda Sagar University, Bengaluru, India

EDITORIAL

The most important catalyst for truly translating regenerative Advanced Organ Manufacturing medicine products into the marketplace is manufacturing, thereby A wide range of organ processing methods have been exploited over solutions is not an easy job. The Regenerative Medicine Manufacturing Society (RMMS) is poised through mutual expertise and partnership to help shift the needle and establish these manufacturing solutions for the industry. In the medical development of tissues and human organs. Manufacturing (AM) has wide utility. It refers to extremely Nevertheless, in my own laboratory of strong theoretical and improved biocompatibility, but before making patient-specific readily adopted in the medical sector.

Basis of Organ Manufacturing

In the universe, all complex living phenomena, including tissues, create cells with organelles. The fundamental unit of life is the cell. Homogeneous cells or ECMs are made of tissues, whereas of this technology. heterogeneous cell or ECM forms are made of muscles. The

various types (degrees or levels) of materials found in the human body are cells, tissues, and organs.

maintaining patient access. However, designing production the past few years. These innovations include fully automated MNRP, partially automated combined additive molding, porous scaffold manual co-culture cells (i.e. conventional tissue engineering) and decellularized regeneration of the matrix. For spatially and temporally regulating heterogeneous cell structure, several other technologies, field, AM technology is a revolutionary approach used for the such as electrophoresis and magnetic adsorption of cells or Nano Additive composite cell-laden hydrogels, have been used.

complex native organs that can be transplanted into the operating industrial backgrounds, groundbreaking works, and seminal room of the human body. New biomaterials are used to breakthroughs, all the technical bottleneck problems faced in manufacture scaffolds, tissues and organs, and they demonstrate biomaterials, cell therapy, tissue engineering, drug screening, and other regenerative medicine fields for more than several decades have applications, we need to thoroughly analyze them. Because of its been progressively overcome. For example, the first real 3D cell-laden patient-specific implants, tissue, scaffolds and organs, AM is latticed structure was created by our home-made one-nozzle 3D bioprinter. 3D bioprinting is a platform technology for advancing the development of regenerative medicine. In order to manufacture multifunctional drug delivery systems, scaffolds, prosthetics (e.g. are the result of physical, chemical or biophysical changes in dental and orthopedic), organoids, tissues, and organs, 3D biochemistry. In order to form large polymers or chemicals, small bioprinting is anticipated. Over the past 5 years, the use of this organic and inorganic molecules polymerize or mix. In the cell technology has increased immensely, especially as the cost of devices membrane, large polymers and compounds then aggregate to has dropped dramatically, paving the way for more widespread use. Furthermore, key market players have developed software solutions It is also the human body's central structural and functional unit. that, due to easier-to-use interfaces, often help to democratize the use

^{*}Correspondence to: Tarun V, Department of Microbiology, Dayananda Sagar University, Bengaluru, India

Received: January 04, 2021; Accepted: January 18, 2021; Published: January 21, 2021

Citation: Tarun V (2021) Editorial: Biodegradable liposome-encapsulated hydrogels for Biomedical. J Biomed Eng & Med Dev. 6:144. credited.