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The history of use of dental materials and biomaterial dates back to the BC era, but the real advances in this field have occurred since the 19th century, due to the invention and understanding of new materials. These advances have been due to the continuous quest for new materials and new technologies used for the design and fabrication of new and novel materials, and, in particular, the understanding of new materials with innovative clinical applications. These have only been possible due to interdisciplinary research of a translational nature, where physicians, surgeons, dentists, and materials scientists work together for a common and targeted goal. It is important for clinicians to understand the needs of the patient, who translates those needs for the materials scientist to develop an implant to improve the quality of life for the patient. Once the chemical, physical, mechanical, and biological properties of the materials are well understood, then these materials can be tailored to provide specific clinical applications. Development in the field of tissue engineering and regenerative medicine has only been possible due to work from this partnership. This Special Issue will provide an excellent forum to bring together different communities and publish research of a high caliber, which will be beneficial to healthcare.



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