

2<sup>nd</sup> International Congress on**RESTORATIVE & ALTERNATIVE MEDICINE**

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**A new era of medical informatics bioengineering technologies to assist self tissue regeneration process****Tamer M Nassef**

Misr University for Science and Technology, Egypt

Bioengineering is a discipline that advances knowledge in engineering, biology and medicine, and improves human health through cross-disciplinary activities that integrate the engineering sciences with a very broad area of study, where medical informatics is a scientific/systematic field of study that deals with the acquiring, storage, retrieval and processing of medical, biological and associated data, information and knowledge for the purpose of problem solving and decision making. Bioengineering can include elements of electrical and mechanical engineering, computer science, materials, chemistry and biology. This breadth allows specialization in their areas of interest and collaborate widely with researchers in allied fields. The areas of bioengineering technology, such as tissue engineering, biomechanics and biomechatronics plays an important role to stimulate self cell regeneration, bone healing and muscles reconstruction. The ultimate goal of this technologies are to improve the the quality of health care, research and education in medicine and health and; manage greater quantities of data and more complex data over time specially for restorative medical fields.