# DESIGNING BIOMATERIALS: FROM BLOOD VESSELSTO THE SPINAL CORD

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Nowadays, increasing efforts are focused on the development of more efficient materials that can serve as therapeutics for biomedical applications as diverse as cardiovascular repair, bone and cartilage replacement, drug delivery, cancer, and neural regeneration, to cite a few. These materials, conventionally referred to as "biomaterials", require a smart and thorough design in which many different parameters should be taken into consideration to guarantee the success of the device. From physic-chemical properties to biocompatibility with cells and tissues, biomaterials need to fulfill a set of requirements that can be only accomplished by merging the expertise of multidisciplinary research teams in their design. In this talk, we will make a journey through some of the most relevant parameters to be considered when designing biomaterials by using particular exemplary cases.

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