The research planned in the proposed project is targeted to the creation of novel advanced materials that are of interest for subsequent use in the field of the treatment of diseases of great social and economic impact. The aim of the project is to create novel hybrid nanostructured materials based on natural polysaccharides, their derivatives and/or polyesters and suitable cytostatic. These cytostatic-containing materials will be prepared by electrospinning or solvent casting in different forms – micro- and nanofibers, films or polymer networks in order to find the optimal effect at local treatment of experimental tumors. Two types of hybrid nanostructured materials carrying cytostatic will be prepared and characterized: (i) based on natural polysaccharides or their derivatives and (ii) from (co)polyesters. The cytostatic release will be studied \textit{in vitro} depending on the type and the form of the hybrid materials, on the nature of cytostatic, and on the conditions of the medium. The antitumor activity of the hybrid materials will be estimated \textit{in vitro} and \textit{in vivo}. The cytostatic/cytotoxic activity of the materials on the development of experimental tumors will be studied in animals. It is expected that these innovative studies will contribute to the creation of novel and effective means for local cancer treatment.