Journal of
Functional Biomaterials

Special Issue

Biomaterials Approaches for Cancer Research

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Deadline for manuscript submissions:
20 August 2014

Special Issue website:
mdpi.com/journal/jfb/special_issues/Biomater-Cancer

Dear Colleagues,

Over the years, the field of biomaterials has emerged as an important tool in the fight against cancer. Biomaterials approaches are applied to improve methods of studying cancer in vitro. Different materials are used to create 3D cell culture systems, which can act as intermediate stages between 2D culture and animal models. Biomaterials are also currently used in the detection and diagnosis of cancer; such diagnostics include the development of biomaterials-based immunoassays, which detect biomarkers and biomaterials to facilitate the delivery of contrast agents for imaging. Furthermore, biomaterials also play an integral role in the advancement of cancer therapies. A wide spectrum of biomaterials are being applied for the targeted and sustained delivery of therapeutic agents. Due to the difficulties and high costs of developing new therapeutics and detection and diagnosis methods, focus should be placed on applying biomaterials that optimize currently available approaches. Biomaterial properties, such as size, shape, charge, surface chemistry, morphology, and physiochemical properties can be easily tailored to tackle specific challenges in cancer. Thus, biomaterials enable useful, innovative approaches for improving the current technologies available for studying, detecting, and treating cancer.

Dr. Sue Anne Chew

Guest Editor

Special Issue Topics:

- cancer therapy
- cancer detection and diagnosis
- 3d culture systems
- drug delivery
- imaging

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