



Flexible implanted medical devices

By Liu, Yang

Condition: New. Publisher/Verlag: Scholar's Press | Novel Parylene Filters for Biomedical Applications | Medical engineering plays a more and more important role in driving the fundamental biology research moving forward. The work presented in this book targets at engineer smart parylene filters for various biomedical applications. Three smart parylene membranes are discussed, including parylene magnesium-embedded filter for circulating tumor cells isolation, parylene based microelectrode filter for single-islet electroisletogram, and parylene-on-PDMS membrane for vaccine production. Besides the three devices, parylene properties are also studied and a novel origami design is proposed, which can potentially increase the surface areas of the membranes by fold the 2D flat film into 3D structures. Details are discussed in the chapters. | Format: Paperback | Language/Sprache: english | 148 pp.



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