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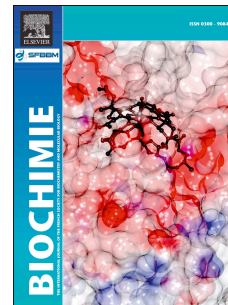
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Abstract

As an indispensable process of cell life, apoptosis is essential for keeping homeostasis at cell level. Dysregulation of apoptosis is usually involved in the pathological processes of many complex diseases including cancer. With the properties such as high affinity and specificity to their targets, easy of synthesis and modification and good biocompatibility, aptamers have been attractive molecules applied in basic research, diagnostics and therapeutics. This review mainly focuses on the recent researches on application of aptamers in interference of cell apoptosis. Key targets along the intrinsic and extrinsic apoptosis pathways were respectively dissected using aptamers as a tool, providing an insight into the pathological processes, especially for cancer.

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