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Abstract

MicroRNAs (miRNAs) originally an unappreciated class of small ribonucleic acids (RNAs) were diagnosed as moderate biological modifiers. Over the years rigorous research on microRNAs established them as a powerful regulator of various cellular processes like occurrence of different diseases. In this paper cellular automata approach is used by replacing the miRNA sequences with binary forms and using an evolutionary rule those sequences can be converted into distinct images. This is immensely helpful as the cellular automata images of the miRNA sequences help in deciphering various vital aspects which were previously unknown and thereby rendering it possible to find a pattern. Using this concept it becomes easier to distinguish amongst the different miRNA images and hence identify the influence of the segments of the miRNA sequences on the pattern of the corresponding images.

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Index Terms

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