



DNA and Proteins: Life Music

Sh. Ariaenejad*¹
K.Kavousi²

Abstract

Independent research works reveal the existence of rhythmic oscillations in various natural phenomena which are convertible to musical compositions in different ways. In this work a brief survey on extracted music from biological sequences such as DNA and its mysterious products «proteins» has been presented. In this regard two dominant aspects are investigated, the inspired music from DNA and the inspired music from protein sequences. In the first aspect, different methods based on infrared frequencies of DNA nucleotide bases and in the second point of view, the methods which use protein sequences for composing music are described. Among the related methods, using Morse code theory for protein sonification is explained with more details. These methods help us to understand how it is possible to convey information from molecular biological sequences to human kind ears. Final section discusses about possible physiological manifestations through natural phenomena and molecular biological sequences and explains our perception from closely related links between nature and music.

Keywords: DNA Music, Protein Music, Biological Sequence

* Corresponding Author,

1- Department of Marine Biology, Faculty of Marine Science and Technology, Science and Research Branch, Islamic Azad University
Tel: 09128184146 Email: sh.ariaee@gmail.com

2- Control and Intelligent Processing Center of Excellence(CIPCE),
School of Electrical and Computer Engineering, University of Tehran