Abstract

The thalassemias are now the very dangerous group of anemias caused by mutation affecting the synthesis of hemoglobin. The thalassemias are a bag of heterogeneous group of inherited anemias. The thalassemias are very common in the region of the persons of Mediterranean, African, and Southeast Asian descent. Thalassemia trait affects 5 to 30 percent of persons in these ethnic groups. Scientists and public health officials predict that thalassemia will become a worldwide issue in the next century. Thalassemia consists of a number of different forms of anemia. The two main types are called Alpha & Beta Thalassemias. The Alpha and Beta thalassemia depends on which part of hemoglobin is lacking in the red blood cells. The impact of alpha thalassemia is concentrated in South East Asia, Malaysia and Southern China. The problem of beta thalassemia is seen primarily in the areas surrounding
Mediterranean Sea, Africa and South East Asia. The main objective of this ANN model is to classify the Beta Thalassemias person based on their quantitative blood test. This model helps those people who are organizing the camp for Thalassemia person detection to spread awareness among people and prevent the birth of beta thalassemia major child by pre-marriage counseling.

References

- V Turkar, Polarimetric SAR Image Classification by Using Artificial Neural Network.

Index Terms

Computer Science
Soft Computing

Keywords

Thalassemias  Mutation  Alpha Thalassemia  Beta Thalassemia  Anemia