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Research Interest

Our recent studies on thalassemia intermedia patients with normal or carrier status for β-globin gene suggest that mutations or SNPs in the β-globin LCR region or associated transcription factors might be involved in creating or modifying the clinical picture of the disease. Our research interest is to elucidate the role and function of these factors in determining the phenotype of thalassemia patients in Iran. The result of our studies will help affected families with less clear cut genotype-phenotype relationships, as well as improving our knowledge on mechanisms of β-globin gene regulation.

Current projects

- Screening β-globin LCR core sequences including 5´HS1-4, as well as NF-E2 and EKLF transcription factors in cases with thalassemia intermedia phenotype and normal or carrier status for beta globin gene mutations
- The role of SNPs in LCR in increasing the HbF level in carriers of beta thalassemia mutations.

Selected Publications

Neishabury M, Azarkeivan A, Oberkanins C, Abedini SS, Zamani S, Najmabadi H. Analyzing 5'HS3 and 5'HS4 LCR core regions and NF-E2 in Iranian thalassemia intermedia patients with normal or carrier status for beta-globin mutations. Blood Cells Mol Dis. 2011; 46:201-205

Neishabury M, Azarkeivan A, Najmabadi H. Frequency of positive Xmn Gγ polymorphism and coinheritance of common α thalassemia mutations do not show statistically significant difference between thalassemia major and intermedia cases with homozygous IVSII-1 mutation. Blood Cells Mol Dis. 2010; 44:95-99

Neishabury M, Azarkeivan A, Oberkanins C, Esteghamat F, Amirizadeh N, Najmabadi H. Molecular mechanisms underlying thalassemia intermedia in Iran. Genet Test. 2008; 12:549-556

Azita A, Neishabury M, Hadavi V, Fatemehsadat E, Enrahimkhani S, Hossein N. A report of 8 cases with hemoglobin H disease in an Iranian family. Pediatr Hematol Oncol. 2010; 27:405-412

Najmabadi H, Neishabury M, Sahebjam F, Kahrizi K, Shafaghati Y, Nikzat N, Jalalvand M, Aminy F, Hashemi SB, Moghimi B, Noorian AR, Jannati A, Mohammadi M, Javan K. The Iranian human mutation gene bank: A data and sample resource for worldwide collaborative genetics research. Hum Mutat. 2003; 21:146-150