عنوان مقاله:

Definition an immunological important miRNAs of Human Cytomegalovirus in SOT patients

محل انتشار:

نخستین کنفرانس ملی یافته های نوین در میکروبیولوژی و تولید فرآورده های بیولوژیک (سال: 1402)

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خلاصه مقاله:

Background: MicroRNAs (miRNAs) are endogenous, ۱۸-۲۲ nucleotide noncoding RNA molecules. Human cytomegalovirus (HCMV) is a ubiquitous and highly specific herpes virus, encode miRNAs, which increases gradually in the presence of infection. One of the important viral miRNAs is known as HCMV-miR-UL۱۱۲ which plays a role in the establishment and maintenance of viral latency. Objectives: The current study aimed to evaluate the expression levels of HCMV-miRUL-۱۱۲, in active and inactive transplant patient groups in comparison to healthy individuals. Materials & Methods: Total RNA was isolated from samples of ۶۰ organ transplant patients and ۳۰ controls, in-house SYBR green Real-time PCR protocols was performed for miRNA and gene. Results: The expression level of UL-۱۱۲ gene was significantly higher in the active HCMV infected patients (p= ۰.۰۰۱). The miR-UL۱۱۲ expression level significantly increased in the inactive HCMV infected patient (p<۰.۰۰۱). Conclusion: Increase of the miR-UL۱۱۲ expression level in inactive HCMV infected transplant patients introduce the potential role of the miR-UL-۱۱۲ as a biomarker index of HCMV latent stage that should be confirmed in future completed studies.

کلمات کلیدی:

Human Cytomegalovirus, miRNA, Transplantation, miR-UL۱۱۲