**عنوان مقاله:**

Expression of Long Non-Coding RNAs in Placentas of Intrauterine Growth Restriction (IUGR) Pregnancies

**محل انتشار:**

مجله گزارش های بیوشیمی و زیست شناسی مولکولی, دوره 8, شماره 1 (سال: 1398)

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**خلاصه مقاله:**

Background: Intrauterine growth restriction (IUGR), a pathologic diminution of the rate of fetal growth, has been associated with alterations in expression of several genes. However, the role of long non-coding RNAs (lncRNAs) in its pathogenesis has not been studied. Methods: In this study we evaluated the expression of four lncRNAs namely, nuclear paraspeckle assembly transcript (NEAT1), taurine up-regulated 1 (TUG1), p21-associated ncRNA DNA damage-activated (PANDA), and metastasis-associated lung adenocarcinoma transcript-1 (MALAT1) in placenta samples obtained from IUGR and normal pregnancies to determine their possible contributions in the pathogenesis of IUGR. Results: We found no significant differences in expression levels between cases and controls. We also found no correlation between expression and clinical data of study participants; however, we found significant correlations between expression levels of all the assessed lncRNAs in both cases and controls. Conclusions: These results imply the existence of a possible shared regulatory mechanism for the expression of these transcripts in placenta. Future

studies are needed to perform such evaluations in larger sample sizes or in animal models in earlier stages of pregnancy.

**لینک ثابت مقاله در پایگاه سیویلیکا:**

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