سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها گواهی ثبت مقاله در سیویلیکا CIVILICA.com

عنوان مقاله:

Protein- Protein Interaction network analysis for Discovering Potent Candidate Drugs in Female Infertility

محل انتشار:

مجله بین المللی بیوفوتونیک و مهندسی پزشکی, دوره 2, شماره 1 (سال: 1401)

تعداد صفحات اصل مقاله: 14

نویسندگان:

Parinaz Tabrizi-Nejhadi - Department of Biology, Tabriz Branch, Islamic Azad University, Tabriz, Iran

Habib MotieGhader - Department of Biology, Tabriz Branch, Islamic Azad University, Tabriz, Iran

Masoud Maleki - Department of Basic Science, Biotechnology Research Center, Tabriz Branch, Azad Islamic University, Tabriz, Iran

خلاصه مقاله:

This article is based on studying the effects of some potent candidate drugs for the treatment of female infertility. Statistically, it is one of the most important issues experienced by many female groups with the subdivision consisting of primary and secondary infertility. In this article first, genes of female infertility were taken from the Gene Expression Omnibus database, and used to identify the protein-protein interaction network (PPI). Then, three protein modules from the PPI network that is under consideration, were recognized, and followed by drawing the mRNA-miRNA interaction sub-network for each protein module. According to this study, by considering the three main modules, ten miRNAs genes had the most important effect in female infertility, with the genes, MRPSYY, BCLAFI, and LYAR having strong positive impact on female infertility. From this study, eventually a drug-gene interaction network for female infertility was obtained. Based on our findings, it is recommended that young couples, use low-risk therapies instead of the prescribed drugs. Finally, to make a scientific conclusion, further studies of the effects of these genes, miRNAs, .and drugs in the infertility treatment is needed

کلمات کلیدی: Female infertility, microRNA, PPI, mRNA-miRNA, Drug-gene network, POF, PCOs

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1608801

