METHODS FOR DRUG SCREEN USING ZEBRAFISH MODEL AND THE COMPOUNDS SCREENED THEREFROM

Abstract of the Disclosure

The invention relates to a platform of using zebrafish in screening candidates for treating and/or preventing myopia and keratoconus disease. The invention is mainly based on that Lumican, one of several SLRPs, plays an important role in the regulation of fibrillogenesis or the genes affecting the size of eyeballs in zebrafish, in addition to playing an important role in clinical myopia. Therefore, the invention uses the established zebrafish model to further identify the drugs affecting the expression of lumican and collagen fibrillogenesis, and/or the regulation of eyeball size. These drugs are potential candidates for treating myopia and/or keratoconus disease.

Fig. 10