Mutation and insilico analysis of myoc gene (myocilin) with phytochemical activity.

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ABSTRACT

Glaucoma is a disease of major sense of vision which permanently impact vision. This was mainly caused by elevated IOP. This work is done to analyze the mutational (in protein level) analysis of aqueous humor sample from glaucoma patient .Estimation of protein was done from the sample and with SDS PAGE mutated myocilin protein was observed. Compuational analysis was done for MYOC gene (myocilin) using Protparam, Automated server mode. Mutation was observed in many of the aminoacids like Trp,Thr,Ser,Ala,Ile which was encoded by myogene. This gene will mutate myocilin protein mutation analysis was done by SWISS Pdv tool. Foeniculum vulgare, Coleus amobinicus plants were found to reduce elevated IOP level and treat glaucoma. The work can be extended by working on Trabecular meshwork cell culture or animal model and by proving the plant drug.

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