

## Accepted Manuscript

Silver nanoparticles conjugated with Neurotrophin 3 upregulates Myelin Gene Transcription Pathway

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PII: S0022-5193(18)30469-7  
DOI: <https://doi.org/10.1016/j.jtbi.2018.09.033>  
Reference: YJTBI 9642



To appear in: *Journal of Theoretical Biology*

Received date: 31 May 2018  
Revised date: 11 September 2018  
Accepted date: 26 September 2018

Please cite this article as: Anum Munir , Shahid Hussain , Erum Dilshad , Silver nanoparticles conjugated with Neurotrophin 3 upregulates Myelin Gene Transcription Pathway, *Journal of Theoretical Biology* (2018), doi: <https://doi.org/10.1016/j.jtbi.2018.09.033>

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## Highlights

- Myelin-gene Regulatory Factor (MYRF) is the important transcription factors for myelin generation in the central nervous system
- Loss of myelin causes multiple sclerosis, leukodystrophies, and deformity in motor learning ability
- Neurotrophic factors are the signaling proteins, playing role in the regulation of neural survival and axonal development
- Bio-pathways are modeled for investigating networks, to understand gene expression profiles and foreseeing the result of different changes made to the cells
- In this study mathematical modeling of myelin gene transcription, by using neurotrophin protein conjugated with silver nanoparticle as a ligand to initiate the transcription of mutated myelin gene.

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