

Published: 21 July 2020

Effective Role of *Terminalia arjuna* Reduced Gold Nanoparticles on Reproductive Dysfunction Induced by Acetaminophen in Male Wistar Rat

[Mousumi Mitra](#), [Jaysree Laha](#) & [Dilip K Nandi](#) 

BioNanoScience **10**, 942–949(2020) | [Cite this article](#)

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Abstract

Acetaminophen is a commonly used analgesic and antipyretic agent, which causes liver and kidney damage when it is taken in high doses. It also has an adverse effect on reproductive system. *Terminalia arjuna* has a beneficial effect on hepato-protective properties. In this study, effect of green synthesized gold nanoparticles using *Terminalia arjuna* (AuNPs) has been evaluated for prevention of reproductive disorder in male Wistar rats. Then, experiment was conducted on 24 healthy male Wistar rats. Biochemical test such as sperm count, sperm