

Chapter 6: Effect of total triterpenes isolated from the *Ganoderma lucidum* on the mitochondrial oxidative stress and dysfunction in old aged rats.

Chapter 7: Effect of *Ganoderma lucidum* on the chemical induced mitochondrial oxidative stress and dysfunction

Chapter 7a: Effect of *Ganoderma lucidum* on the isoproterenol induced cardiac mitochondrial oxidative stress and dysfunction

Chapter 7b: Effect of *Ganoderma lucidum* on the acetaminophen induced hepatic mitochondrial oxidative stress and dysfunction.

Chapter 7c: Effect of *Ganoderma lucidum* on the carbon tetrachloride induced hepatic mitochondrial oxidative stress and dysfunction

Chapter 8: Toxicity studies of aqueous-ethanol extract of *G. lucidum*, protein bound polysaccharides and total triterpenes isolated from the extract.

Chapter 9: Preliminary phytochemical analysis of aqueous-ethanol extract of *G. lucidum*, protein bound polysaccharides and total triterpenes isolated from the extract.

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