

Effect of Crude *Helleniaspeciosa* Extracts and its Nanoparticle in Streptozotocin-Induced Diabetic in Male

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Objective: Diabetes is a challenging disease that posed adverse effect on male fertility.

Anti-diabetic drugs have potential effective protection against diabetic complication on male fertility. *Helleniaspeciosa* was known to be effective in controlling diabetes, which motivates the design of the present study to evaluate its efficacy against diabetes induced in rat testis using both its crude and nanoparticles.

Methods: The study is based on experimental work, seventy adult albino male rats (200-220g). The Rats will be used for induction of type 2 diabetes using streptozotocin in doses (60 mg/kg bw).

Results: The researcher expects that there will be differences with statistical significance between using *Helleniaspeciosus* and its nano-particles in protecting against diabetes-induced histological changes.

Conclusion: *Helleniaspeciosus* nanoparticles not only act as protective agents against diabetes-induced histological changes but their efficacy exceeds that of treatment with crude *Helleniaspeciosus*.

Biography:

Safia M Bahshwan is a PhD student Biology, Faculty of Science, King Abdul-Aziz University, Saudi Arabia. Highly motivated Academic teacher with a degree in Biology and 3 year's experience in an academic setting as a lecturer. Demonstrated ability to connect with students and develop individualized plans for academic success. Offering exceptional organizational and problem-solving skills. Her current research interests include Nutrition Science, Cell physiology, Histology and Cell response to drug results and study cellular effects after exposure to new treatments. Expertise with scientific tools and instruments for data collection and experiments such as pipettes, microscopes, centrifuges and more.