World Academy of Science, Engineering and Technology
International Journal of Mathematical and Computational Sciences
Vol:14, No:12, 2020

# Aphrodisiac Activity of Ethanolic Extract of Ionidium Suffruticosum in Male Rats

**Authors :** D. Satheesh Kumar, K. S. Lakshmi, V. J. Vishnu Varthan

**Abstract :** Background: Aphrodisiacs are the substances which are used to increase sexual activity and help in fertility. Infertility is a worldwide medical and social problem. Ionidium suffruticosum has an extensive ethnomedical history of use as a traditional remedy for reproductive impairments. Hence, this study was conducted to study the aphrodisiac properties of Ionidium suffruticosum by observing the sexual behavior of male rats. Methods: The ethanolic extract of whole plant of Ionidium suffruticosum (EEIS) at the dose of 200 mg/kg and sildenafil citrate at the dose of 5 mg/kg were administered to the male rats. Mount latency (ML), intromission latency (IL), ejaculation latency (EL), mounting frequency (MF), intromission frequency (IF), ejaculation frequency (EF) and post-ejaculatory interval (PEI) were the parameters observed before and during the sexual behaviour study at days 0, 10, 20, 30, and 40. Results: The ethanolic extract of roots of Ionidium suffruticosum reduced significantly ML, IL, EL and PEI ($p<0.05$). There was statistically increase in MF, IF and EF ($p<0.05$) compared to control following treatment with ethanolic extract of Ionidium suffruticosum. These effects were observed in sexually active and inactive male rats. Conclusion: Present findings provide experimental evidence that the crude extract of Ionidium suffruticosum, used as a traditional remedy, possesses aphrodisiac properties.

**Keywords :** Ionidium suffruticosum, aphrodisiac, sexual behavior, ethanolic extract
**Conference Title :** ICSRD 2020 : International Conference on Scientific Research and Development
**Conference Location :** Chicago, United States
**Conference Dates :** December 12-13, 2020