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Antiplasmodial assessment of beta vulgaris compounds as antimalarial agents

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In our study we retrospMalaria is responsible for around half million people dying yearly and it is hard to destroy because the resistance of Plasmodium parasite to most of the anti-malarial chemical drugs, that proving to be a challenging problem in malaria control. This underscores the continuing need for the discovery and development of new effective and safe antimalarial drugs. The in vivo antiplasmodial activity of bio active compounds of Beta vulgaris aqueous extracts in mice infected with Chloroquine sensitive Plasmodium berghei berghei was studied and the effectiveness of Betalains, Nitrate, Phenolic Acids and Saponins were evaluated against early infection. Each mice group were administered separately in concentrations of 30, 50, 70 mg/kg comparing with distilled water and 5 mg/kg Chloroquine as positive control. Betalains (70 mg/kg) showed the best inhibition activity with 87.70% while (30 mg/kg) Nitrate recorded 79.56% and Betalains (50 mg/kg) gave 69.64% inhibition level in the early infection (suppressive test). Betalains and Phenolic Acids compounds showed dose-dependent activity against Plasmodium in the early infection. This effort provides a stimulus to conduct further investigation to examine Betalains active components as malaria inhibitor combinations.

Biography

Haleema H Albohiri is a PhD student at King Abdulaziz University, has obtained MSc in Parasitology in 2015, she teaches as a lecturer at University of Jeddah. She published articles and working in other articles in blood parasites and antimalarial agents. She is honored in 2016 golden medals and Honor of invention certificate from Euroinvent and WIIPA, she got the outstanding innovation from Association of Thai Innovation and Golden medal from Japan Design and Invention Expo 2019 and Golden Medal from The 5th International Invention Innovation Competition in Canada, iCAN 2020.

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