Author’s response to reviews

Title: In vitro antioxidant and antimalarial activities of leaves, pods and bark extracts of Acacia nilotica (L.) Del.

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Dated 14-2-2017
Dear Editor,

Thank you very much for your valuable suggestions and encouraging remarks. We have revised the manuscript by including the secondary metabolite (phenolic compounds) profile of extracts performed by high performance liquid chromatography/diode array detection (HPLC/DAD) in results and discussion section line number 220-234. The added detail has been modified from our previous publication in the journal “Industrial Crops and Products, Volume 77, Pages 873-882 (2015)” authored by “Muhammad Bilal Sadiq, Warunee Hanpithakpong, Joel Tarning and Anil Kumar Anal. The added information is;

“The phenolic compounds present in plant extracts are responsible for various biological activities like strong antioxidants, antidiabetic, antiaging, anticancer and prevention of cardiac diseases. The qualitative analysis of leaves, pods and bark extracts of A. nilotica by liquid chromatography-Electrospray ionization-Ion trap-Mass spectrometer (LC-ESI-IT-MS) indicated that all the tested extracts contained phenolic compounds, belonging to the classes of gallic acid, catechin and gallocatechin derivatives [13]. The quantification of phenolic compounds, carried out by high performance liquid chromatography/diode array detection (HPLC/DAD) indicated that the leaves were rich in gallic acid (87,502 ± 151.1 mg/kg), catechin (82,588 ± 171.3 mg/kg), isoquercetin (9,725 ± 41.6 mg/kg), rutin (6,856 ± 15.4 mg/kg) and quercetin (1,637 ± 11.6 mg/kg), whereas, apigenin (103 ± 1.7 mg/kg) and kaempferol (114 ± 2.1 mg/kg) were present in minute quantities [13]. The pods were rich in gallic acid (139,458 ± 191.9 mg/kg), tannic acid (6,874 ± 31.9 mg/kg), catechin (6,369 ± 29.2 mg/kg) and rutin (4,026 ± 17.8 mg/kg), whereas quercetin (592 ± 5.7 mg/kg) and isoquercetin (824 ± 3.8 mg/kg) were found in minute quantities. The bark extract contained catechin (18,501 ±71.1 mg/kg), isoquercetin (7,479 ± 119.5 mg/kg), tannic acid (1,459 ± 11.4 mg/kg) and quercetin (1,069 ± 17.3 mg/kg) in considerable quantities”.

Kind regards,

Anil Kumar Anal