## RESEARCH

My research focus is on natural product chemistry/drug discovery involving phytochemical screening, anthelmintic screening and chromatographic separation of bioactive molecules in medicinal plants. I am also involved in developing alternative assay methods for quantitative analysis of drug molecules.

## (a) Completed

- 1. Literature review of Brillantasia species.
- 2. Isolation and characterization of an anthelminthic proanthocyanidin from *Khaya senegalensis* (Meliaceae).
- 3. Antioxidant capacity profiling of ascorbic acid using proton transfer kinetics data.
- 4. Sensitive spectrophotometric determination of aceclofenac following azo dye formation with 4-carboxyl-2, 6-dinitrobenzenediazonium ion.
- 5. Colorimetric determination of nifedipine using 4-carboxyl-2, 6-dinitrobenzene diazonium ion.
- 6. Antimicrobial and pharmaceutical properties of Leucaena leucocephala seed oil.
- 7. Antimicrobial activities of *Garcinia kola* seed oil against some clinical microbial isolates.
- 8. Comparative studies on the crude and refined oil of *Garcinia kola* Heckel (Guttiferae) seed.
- 9. Chromatographic fractionation and bioactivity study of *Vernonia amygdalina* leaf extracts using *Haemonchus placei* adult worm motility anthelmintic assay.
- 10. Antimicriobial evaluation of *Nauclea diderrichii* (de wild & merrill) leaf extracts and fractions against urinary tract infection pathogens.

## (b) In progress

- 1. Bioassay-guided isolation and characterization of anthelmintic compounds from some medicinal plants as supportability tool for organic livestock farming.
- 2. Isolation of antimicrobial compounds from *Nauclea diderrichii* leaf chloroform extract.

