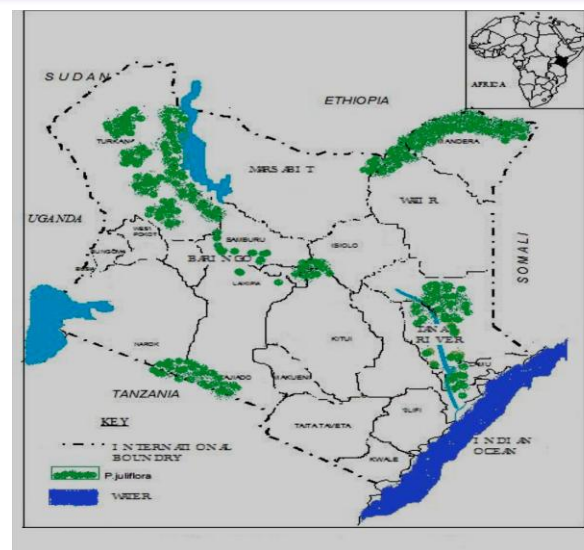




Identification of phenolic compounds in *Prosopis juliflora* by liquid chromatography - electrospray ionization mass spectrometry



CHEPKWONY Sarah Cherono; DUMARÇAY Stéphane; CHAPUIS Hubert;
KIPROP Ambrose; GERARDIN Philippe and GERARDIN-CHARBONNIER Christine

P. Juliflora was introduced in Kenya in the 1980's to combat desertification.



Over the years it has spread into roads, crop fields, sea shores and homes becoming a great nuisance.



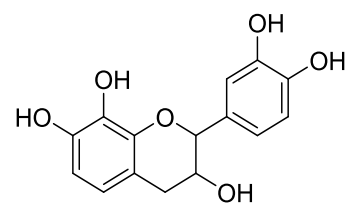
The study therefore aims at its valorization

- ✱ Food industry
- ✱ Detergents
- ✱ Cosmetics
- ✱ Innovative materials.

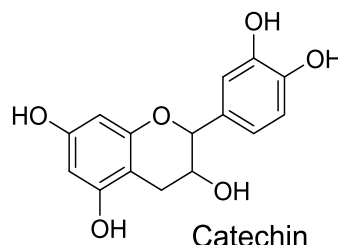
APPROACH

- ✓ Develop an LC-MS/MS method to identify and quantify the compounds present.
- ✓ Carry out studies on the physico-chemical and biological properties of the identified compounds.

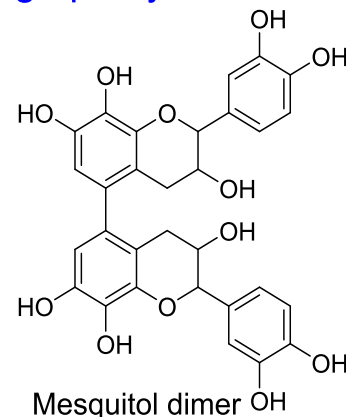
Some compounds identified included:



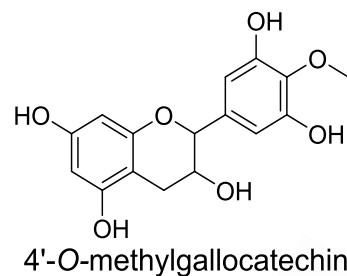
Mesquitol
(Most abundant Compound)



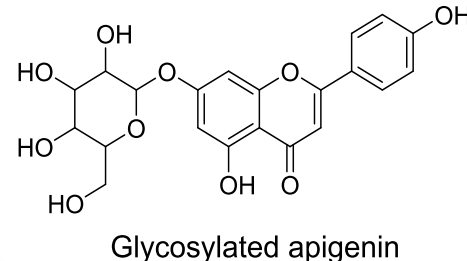
Catechin



Mesquitol dimer



4'-O-methylgallo catechin



Glycosylated apigenin

Mesquitol compound could be extracted with an unusual high yield of 7 - 10 % with high purity.



For more information...