

Oral presentation

Anti-*Pseudomonas* activity of selected plants used in traditional ethnoveterinary practices

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Introduction. Traditional ethnoveterinary knowledge is practiced around the world, from farmers treating cattle in Nigeria [1], to hunters treating dogs in Trinidad [3]. Ethnoveterinary medicinal plants are used for a variety of ailments including parasites, grooming [3], and microbial infections [1].

Objectives. To evaluate the anti-*Pseudomonas* activity of some plants used in ethnoveterinary medicine.

Methods. Twelve ethanolic extracts from ten plants, used in traditional ethnoveterinary practices in the Caribbean and Nigeria and found in South Florida, were screened for activity against veterinary isolates of *Pseudomonas aeruginosa*, as well as an ATCC standard *P. aeruginosa* strain. Activity was determined using broth micro-dilution methods.

Results. Three of the ethanolic extracts showed substantial activity against *P. aeruginosa*, as determined by kinetic growth curves and MIC50. This included *Kalanchoe pinnatum* (Lam.) Pers., *Khaya senegalensis* (Desr.) A. Juss., and *Azadirachta indica* A. Juss.

Conclusion. The efficacy of some ethnoveterinary plant remedies has been validated by their antimicrobial activity, particularly those traditionally used to treat wounds and bacterial infections.

Keywords: standard, certification, threatened species

Selected References

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