ISE1-P09 Mixtures of Medicinal Plants used in Navarra (Spain)

R.Y. Ceana*, S. Akereta*, M.L. Calvo*
*Department of Plant Biology (Botany), Faculty of Sciences, University of Navarra, Inaunarea s/n, 31080 Pamplona, Spain.
Methods: Fieldwork was carried out from 2003 to 2007. We performed semi-structured interviews with 252 informants (mean age 72.50 years; 53% men). The plant reported and analyzed the results. The data was analyzed using qualitative methods.
Results and conclusions: Informants reported 355 plant mixtures, in which 112 different plant species are used. 52% of mixtures were for internal administration and 48% for external use. The most employed mixtures are 39 mixtures for dermatological problems, 30 for respiratory tract infections and 22 for digestive problems. The synergism of the plants mixtures is a strategy to overcome the chemical resistance of all medicinal plants. The recognition of the contribution of each plant to the final effect becomes somewhat difficult.

ISE1-P10 Antibacterial activity of extracts from endemic "Montado" species against multi-drug resistant pathogens

*MedUL, Faculdade de Farmácia, Universidade de Lisboa, Av. Prof. Gama Pinto, 1839-032, Lisboa, Portugal. †Centro de Biologia Ambiental, Faculdade de Farmácia, Universidade de Lisboa, Av. Prof. Gama Pinto, 1839-032, Lisboa, Portugal.
Methods: The minimum inhibitory concentrations (MICs) were determined by the serial broth microdilution method against S. aureus strains (ATCC 6538, ATCC 25923 and MATRIO) and Gram-negative bacteria (P. aeruginosa, S. typhimurium, and K. pneumoniae). The activity of the extracts was screened for multi-drug resistant bacteria. The active extracts were selected for non-resistant bacteria. The MICs values ranging from 0.06 to 5.0 μg/ml of the Gram-negative bacteria. The extracts of Vaccinium myrtillus displayed high activity against both S. aureus sensitive and VISA strains with MICs values of 0.31-7.5 μg/ml, while the methanol and water extracts had strong activity against the VISA strains with MICs of 0.067-7.5 μg/ml. No activity was detected against Gram-negative bacteria.

Acknowledgments: The UL/IT poly-2009/2016 for Blanca Loa's scholarship.

References: