PHYTOCHEMICAL AND ANTITUMORAL BIOACTIVITY STUDIES OF PLECTRANTHUS HADIENSIS (FORSSK.) SCHWEINF. EX SPRENGER AERIAL PARTS

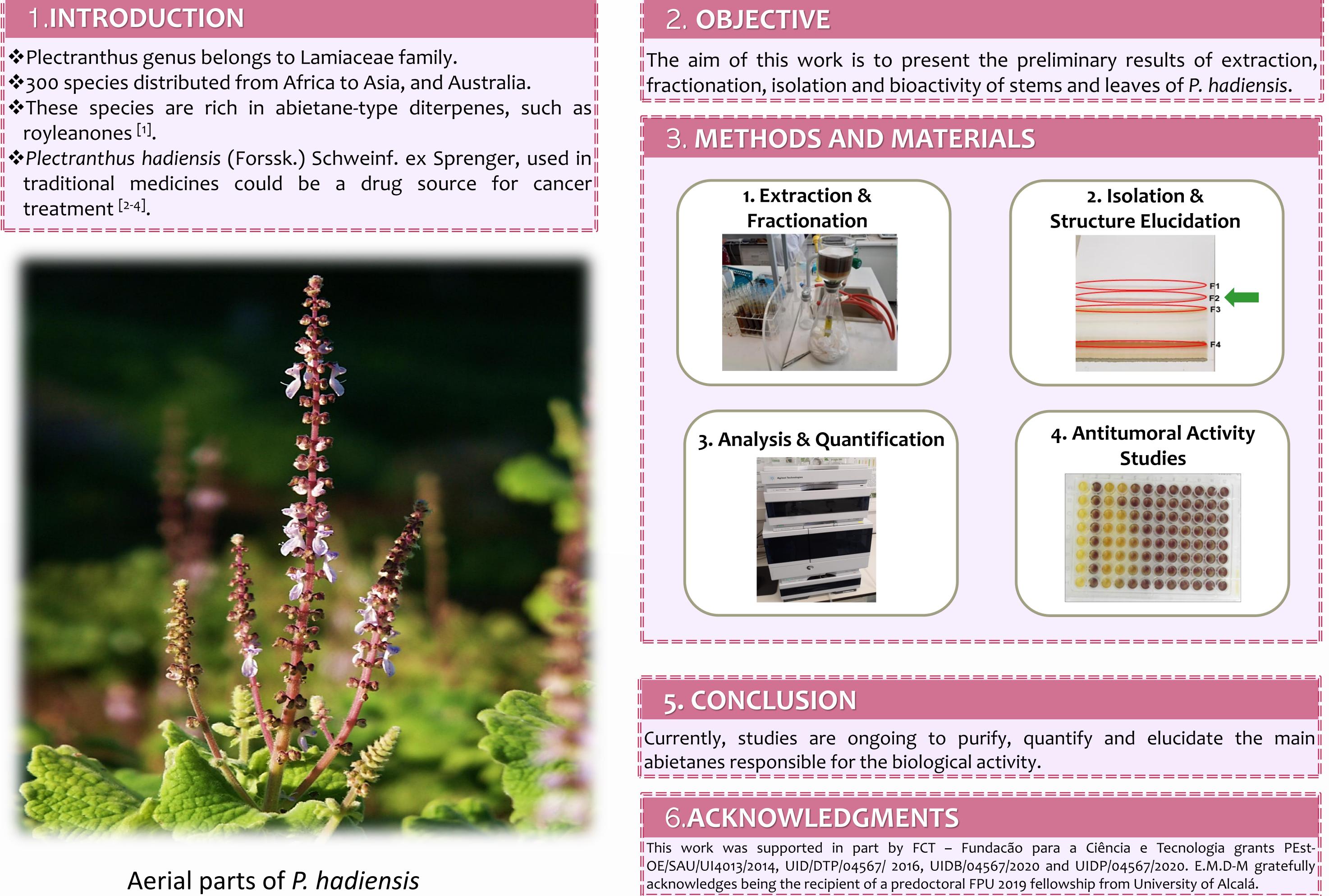
Eva María Domínguez-Martín^{1,2}, Epole Ntungwe^{1,2}, Catarina Teodosio², Vera Isca ^{2,3}, Gabrielle Bangay ², Ana María Díaz-Lanza^{1*}, Patrícia Rijo^{2,3*}

¹University of Alcalá de Henares, Faculty of Pharmacognosy Laboratory), New antitumor compounds: Toxic action on leukemia cells research group. Ctra. A2, Km 33.100 – Campus Universitario, 28805. Alcalá de Henares, Madrid, Spain.

1.INTRODUCTION

Plectranthus genus belongs to Lamiaceae family. royleanones ^[1].

treatment ^[2-4].



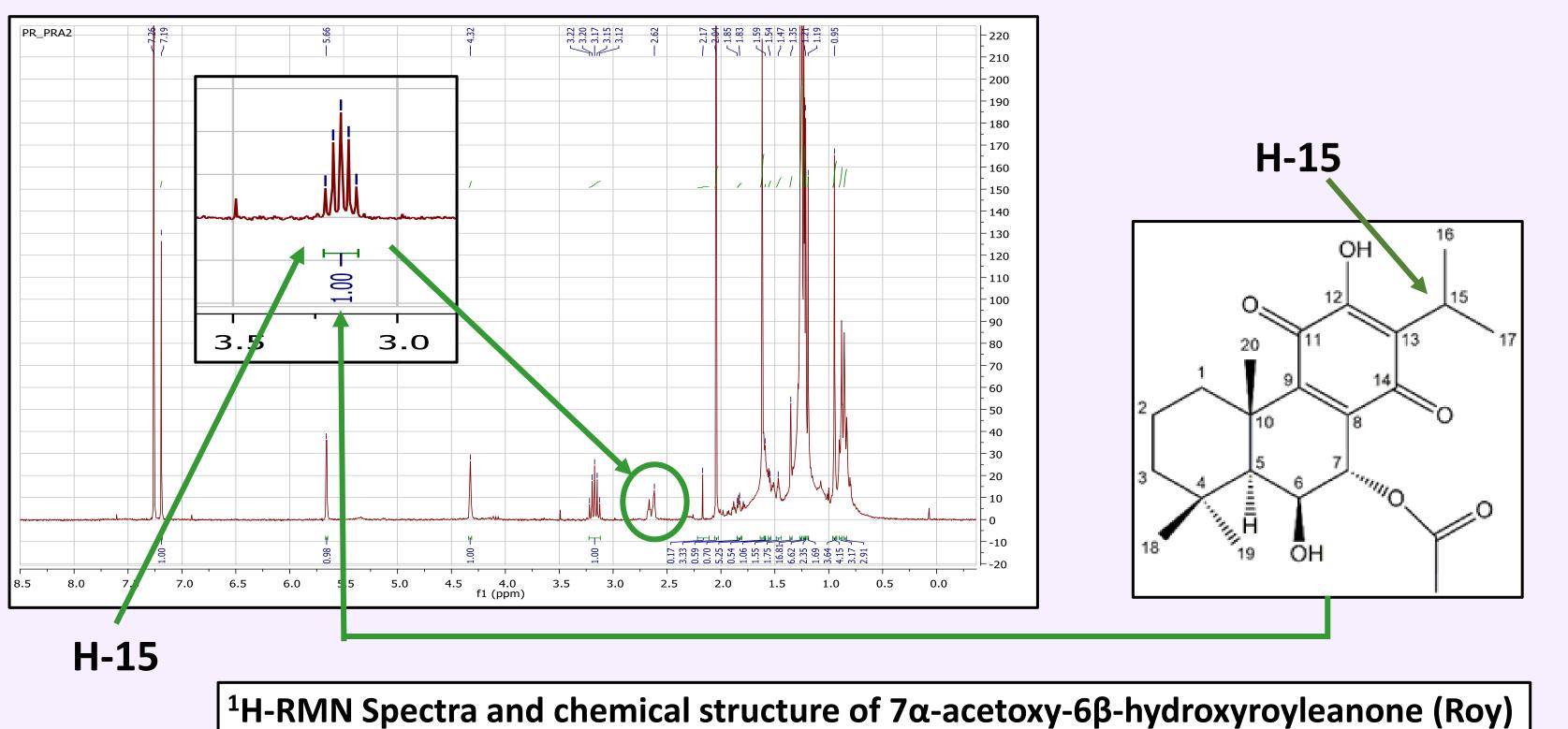
²Universidade Lusófona's Research Center for Biosciences & Health Technologies-CBIOS, Bio. Natural Lab. Campo Grande 376, 1749-024 Lisbon, Portugal.

³University of Lisbon, Faculty of Pharmacy, Instituto de Investigação do Medicamento (iMed.ULisboa). 1649-003 Lisbon, Portugal.

E mails: patricia.rijo@ulusofona.pt; ana.diaz@uah.es

4. **RESULTS**

- > Leaves and stems samples were extracted five times. profile.
- NMR, which is almost non-existent in the stems.



> P. hadiensis leaves extract showed cytotoxicity in Artemia salina assay and in colorectal, breast and lung cancer cell lines under Sulforhodamine B test. > The stems present a wide variety of other compounds, including three other diterpenes whose chemical and biological activities are under study.

7. BIBLIOGRAPHY

[1] Lukhoba CW, Simmonds MSJ, Paton AJ. (2006), J Ethnopharmacol; 103 (1):1 -24. [2] Schultz F Anywar G, Wack B, Quave CL, Garbe LA. (2020) J Ethnopharmacol 256:112742. [3] Sitarek P, Toma M, Ntungwe E, et al. (2020) Biomolecules 10: 194. [4] Śliwiński T, Sitarek P, Skała E, et al. (2020) Pharmaceuticals (Basel) 13(6): 123.

> Great difference between extracts from leaves, with those from stems, mainly in their content of 7α -acetoxy-6 β -hydroxyroyleanone (Roy). This has been verified by Thin Layer Chromatography (TLC) (authentic sample) and HPLC

 \triangleright A pure Roy fraction (F2) was obtained from the leaves, characterized by ¹H-

