



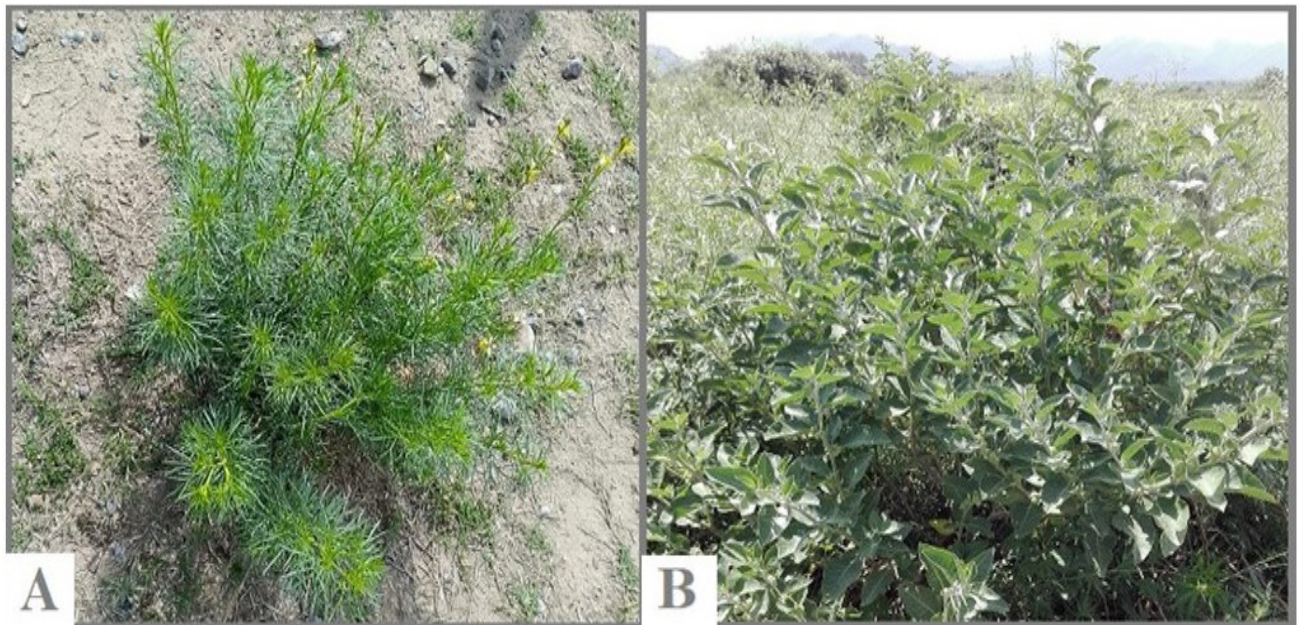
Supplementary Material

In Vitro Anthelmintic Efficacy of Two Wild Herbs *Peganum harmala* and *Withania somnifera* Against *Haemonchus contortus*

Muhammad Qarib Hussain¹, Jabar Zaman Khan Khattak¹ and Nousheen Zafeer^{2*}

¹Department of Biological Sciences, International Islamic University, Islamabad, Pakistan

²Department of Zoology, University of Gujrat, Gujrat, Pakistan



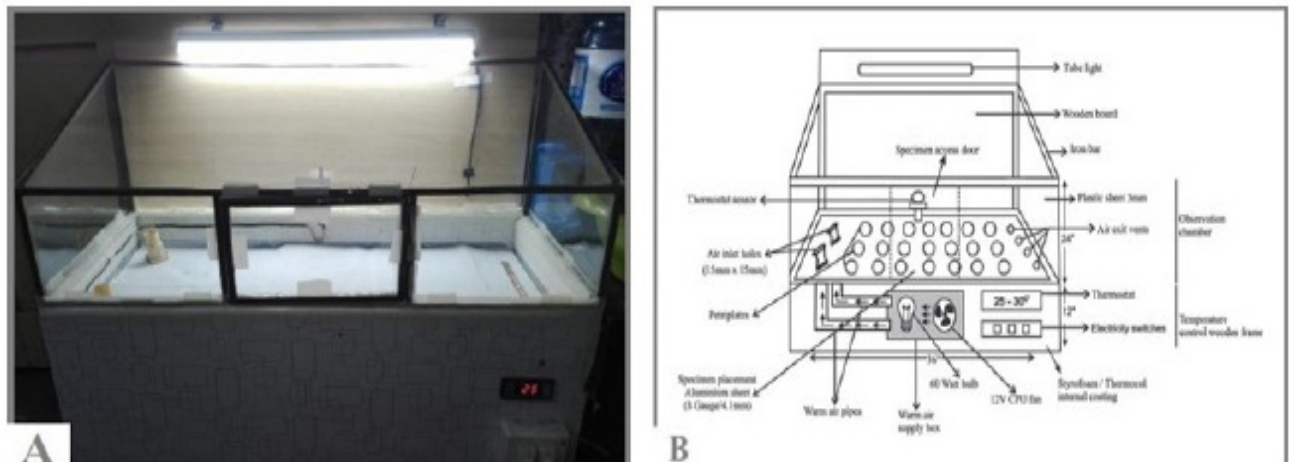
Supplementary Fig. 1. A, *P. harmala*; B, *W. somnifera* in the natural habitat of Kala Chitta Range, Punjab, Pakistan.

* Corresponding author: nousheen.zafeer@uog.edu.pk
0030-9923/2026/0003-1271 \$ 9.00/0



Copyright 2026 by the authors. Licensee Zoological Society of Pakistan.

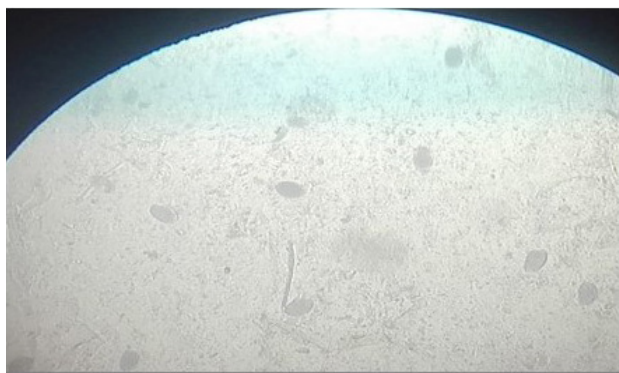
This article is an open access  article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (<https://creativecommons.org/licenses/by/4.0/>).



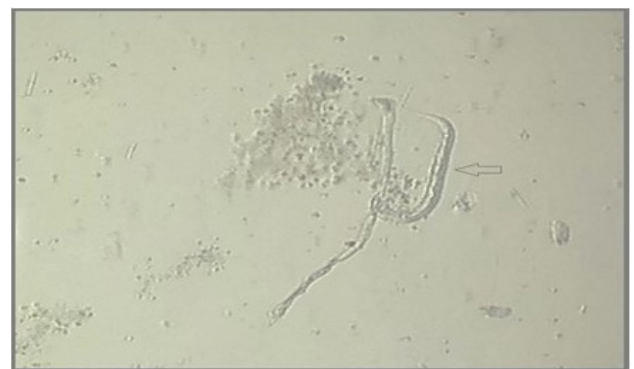
Supplementary Fig. 2. A, the abomasal working apparatus is a self-structured experimental table that was used to maintain a set range of temperature (25-30 °C) for worms. B, Principle/ layout of abomasal working apparatus showing the observation table used for placing specimen and the electrical circuits used to generate temperature (25-30 °C) for proper functioning of the apparatus.



Supplementary Fig. 3. Isolation of *Haemonchus contortus*: A, Abomasal incision showing heavy infection of *Haemonchus contortus*; B, highly agile, adult worms of *Haemonchus contortus*.



Supplementary Fig. 4. Microscopic observation of *H. contortus* eggs (10X objective).



Supplementary Fig. 5. Larval (L1) response to plant extract treatment of the extracts (100X magnification).