Ibn al-Baitar: A Great Botanist, Pharmacist, Scientist and Physician

(Disclaimer& acknowledgement): This article is not our original research article. It is almost entirely taken from Wikipedia, for which we are grateful to Wiipedia)¹

Ņiyā' **Al-DīnAbūMuḥammad**'**Abdllāh Ibn Aḥmad al-Mālaqī**, commonly known as **Ibn al-Bayṭār** (Arabic: ابن البيطار) (1197–1248 AD) was an Andalusian Arabpharmacist, botanist, physician and scientist. His main contribution was to systematically record the additions made by Islamic physicians in the Middle Ages, which added between 300 and 400 types of medicine to the one thousand previously known since antiquity.^[1]

Ibn al-Baitar was born in the city of Málaga in Andalusia (Muslim-controlled Spain) at the end of the twelfth century, hence his *nisba* "al-Mālaqī".His name "Ibn al-Baitar" is Arabic for "son of the veterinarian", which was his father's job. Ibn al-Baytār learned botany from the Málagan botanist Abū al-'Abbās al-Nabātī with whom he started collecting plants in and around Spain. Al-Nabātī was responsible for developing an early scientific method, introducing empirical and experimental techniques in the testing, description and identification of numerous materia medica, and separating unverified reports from those supported by actual tests and observations. Such an approach was thus adopted by Ibn al-Baytār.

In 1219, Ibn al-Bayṭār left Málaga, traveled to the coast of North Africa and as far as Anatolia, to collect plants. The major stations he visited include Bugia, Constantinople, Tunis, Tripoli, Barqa and Antalya.

After 1224, he entered the service of the Ayyubid Sultan al-Kāmil and was appointed chief herbalist. In 1227 al-Kāmil extended his domination to Damascus, and Ibn al-Baytār accompanied him there, which provided him an opportunity to collect plants in Syria. His botanical researches extended over a vast area including Arabia and Palestine. He died in Damascus in 1248.

Ibn al-Bayțār used the name "snow of China" (in Arabic, *thalj al-Ṣīn*) to describe saltpetre while writing about gunpowder.

Works

Kitāb al-Jāmi ' li-Mufradāt al-Adwiyawa-l-Aghdhiya Ibn al-Baytār's largest and most widely read book is his Compendium on Simple Medicaments and Foods (Arabic: It is a. (كتاب الجامع لمفردات الأدوية والأغذية pharmacopoeia (pharmaceutical encyclopedia) listing 1400 plants, foods, and drugs, and their uses. It is organized alphabetically by the name of the useful plant or plant component or other substance - a small minority of the items covered are not botanicals. For each item, Ibn al-Baytār makes one or two brief remarks himself and gives brief extracts from a handful of different earlier authors about the item. The bulk of the information is compiled from the earlier authors. The book contains references to 150 previous Arabic authors, as well as 20 previous Greek authors. One of the sources he quotes most frequently is the Materia Medica of Dioscorides who was inspired by Magon, another Amazigh, having also written an Arabic commentary on the work. Another book often cited by him is Book Two of the Canon of Medicine(actual meaning of the title is law of medicine, wrongly translated as Canon of medicine; editor) of Ibn Sīnā (Aveicenna). Both of those sources have similarities in layout and subject matter with Ibn al-Baytar's own book, but Ibn al-Baytar's treatments are richer in detail, and a large minority of Ibn al-Baytar's useful plants or plant substances are not covered at all by Dioscorides or Ibn Sīnā. In modern printed edition, the book is more than 900 pages long. As well as in Arabic, it was published in full in translation in German and French in the 19th century.

Ibn al-Bayțār provides detailed chemical information on the Rosewater and Orangewater production. He mentions: The scented *Shurub* (Syrup) was often extracted from flowers and rare leaves, by means of using hot oils and fat, they were later cooled in cinnamon oil. The oils used were also extracted from sesame and olives. Essential oil was produced by joining various retorts, the steam from these retorts condensed, combined and its scented droplets were used as perfume and mixed to produce the most costly medicines.

Kitāb al-Mughnīfī al-Adwiya al-Mufrada

Ibn al-Baytār's second major work is *Kitāb al-Mughnīfī al-Adwiya al-Mufrada*, an encyclopedia of Islamic medicine which incorporates his knowledge of plants used extensively for the treatment of various ailments, including diseases related to the head, ear, eye, etc.

Other Works

- Mīzān al-Ṭabīb.
- Risālafī l-Aghdhiyawa-l-Adwiya.
- *Maqālafī al-Laymūn, Treatise on the Lemon* (also attributed to Ibn Jumay'); translated into Latin by Andrea Alpago as *EbnBitar de malislimonis* (Venice 1593).
- *TafsīrKitābDiyāsqūrīdūs,* a commentary on the first four books of Dioscorides' "Materia Medica."

References

٠

1. https://en.wikipedia.org/wiki/Ibn_al-Baitar