

Drimys winteri: Circulation of Environmental Ignorance in European Written Sources (1578–1776)

Matteo Sartori and Julia Prakofjewa

Summary

From 1578, knowledge of *Drimys winteri*, a tree species native to Chile and Argentina, was circulated in European written sources. Based on reports of travelers to the Strait of Magellan, European authors presented this specimen to European audiences, stressing its similarity with other European plants and generally excluding Indigenous and local knowledge. During the colonial era, the circulation of environmental nonknowledge about the studied plant unleashed confusion and misidentifications, lasting until 1776, when scientists assigned it its current binomial name. Nevertheless, the long-term effects of environmental ignorance can be identified, and we argue that they are significant.

One of the tasks of the European voyages around the globe from the sixteenth through the eighteenth century was to discover new environmental resources. In 1578, in the Strait of Magellan (Figure 1), the English traveler John Winter found a new plant, which was officially named in his honor: *Drimys winteri*. Nowadays, the ground bark of the species is actively sold as a "Mapuche pepper from the canelo tree." This is a popular commercial product, which represents one of the recent gastronomic symbols of modern Chile.

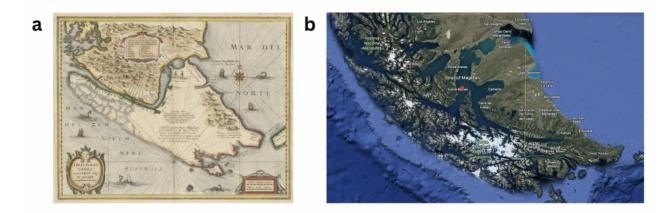


Fig.1. Geographical representations of the Strait of Magellan. a) Hondius, Jodocus, *Freti Magellanici*, (Amsterdam, 1635). Copperplate map, with added color, 37 × 48 cm. Reference: Mateo Martinic, *Cartografía magallánica: 1523–1945*, (Punta Arenas: University of Magallanes, 1999), VIII, 97; b) Study area.

a) created by Jodocus Hondt. b) created with Google Earth.

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In Mapudungun, the language of the Mapuche people—one of the Indigenous communities settled in central and southern Chile and southern Argentina—the tree is called *foye*. The Mapuche have perceived it as sacred and

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have used it for funerary rituals and medicinal purposes (Figure 2). In the seventeenth century, the Chilean writer Francisco Núñez de Pineda y Bascuñán and the Spanish Jesuit Diego de Rosales, who spent many years in Chile as a missionary, reported ethnomedical Indigenous uses of the plant. Nevertheless, their manuscripts were not published until the end of the colonial era.



Fig.2. Healing ceremony with *Drimys winteri*. Fragment of mural "Historia de la medicina y la farmacia en Chile," painted in 1957–58 in Concepción (Chile) by the Chilean artist Julio Escámez. Credit: Fernando Venegas E. (2016).

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During transoceanic voyages, sailors considered *Drimys winteri* a food spice, since it had a similar taste to pepper (*Piper nigrum*) or cinnamon (*Cinnamomum verum*). The tree's bark was also used as a remedy against scurvy, a disease resulting from decreased vitamin C during long travels. At the same time, European scholars did not report any use of the plant among the Indigenous communities that settled the Straits. The exclusion of Indigenous and local knowledge was also supported in the *Natural History of Chile* (*Histórica relación del Reyno de Chile*), published by the Chilean Jesuit Alonso de Ovalle in 1646. According to sailors' reports, Ovalle stated,

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there is a tree in the Strait of Magellan called *canelo*, similar to pepper and cinnamon. European descriptions of *Drimys winteri* were primarily based upon the records of navigators, who emphasized analogies with cinnamon in order to boost sales of the product. In 1582, the Dutch naturalist Carolus Clusius published the first botanical description of the plant. Afterwards, Clusius's representation started to circulate in European written sources. Colonial botanists mainly stressed the similarity of *Drimys winteri* to cinnamon. French botanist and traveler Louis Feuillée, among others, classified the specimen within European plant taxonomy as *Boigue cinnamomifera*, consciously evoking the taste and color of cinnamon. Even in the eighteenth century, such as in the book published by the Scottish illustrator Elizabeth Blackwell and the German botanist Johann Wilhelm Weinmann, the misidentification of the tree with *Cinnamomum verum* was still being circulated (Figure 3).

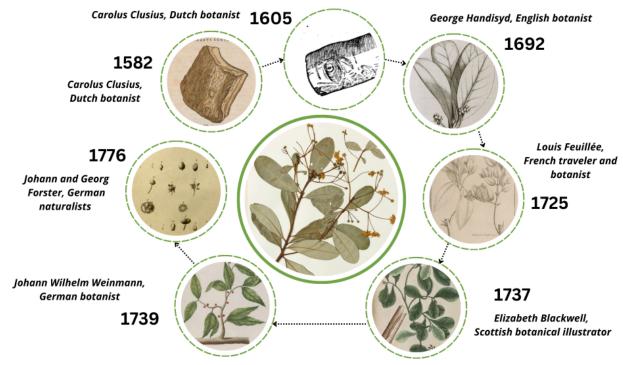


Fig.3. The engravings of *Drimys winteri* circulated in European written sources from 1582 to 1776. Carolus Clusius, *Aliquot Notae in Garciae Aromatum Historiam*, (Antwerp: Christopher Plantin, 1582), 31; Carolus Clusius, *Exoticorum Libri Decem*, (Leiden: Ex officina Plantiniana Raphelengii, 1605), 77; Hans Sloane, "An Account of the True Cortex Winteranus, and the Tree That Hears It," *Philosophical Transactions*, (1693), 17: 204; Louis Feuillée, *Journal Des Observations Physiques, Mathematiques et Botaniques*, (Paris: Jean Mariette, 1725), 6; Elizabeth Blackwell, *A Curious Herbal*, (London: John Nurse, 1739), Vol. 1:, 206; Johann Wilhelm Weinmann, *Phytanthoza iconographia*, (Regensburg: Apud praenominatos Pict. & Chalcogr., 1739), 2: 302; Johan Forster and George Forster, *Characteres generum plantarum*, (London: Prostant apud B. White, T. Cadell, and P. Elmsly, 1776), 84. Central picture: herbarium specimen from The Royal Botanic Gardens collection, Kew (http://specimens.kew.org/herbarium/K001106424).

Courtesy of Carolus Clusius, George Handisyd, Louis Feuillée, Elizabeth Blackwell, Johann Wilhelm Weinmann, Johann, and Georg Forster.

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In the *Natural History of Chile*, Jesuits presented *canelo* to a European audience, stressing the analogy to the European knowledge system. In 1776, the German botanists George and Johann Reinhold Forster assigned it the scientific name *Drimys winteri*, reporting it as a medicinal plant used against scurvy and recommending it instead of Jesuit's Bark (*Cinchona officinalis*).

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а Aqua Raphani Composita.

R Foliorum Cochleariz utriuique inun-datilimorum, ana libras (ex.; ex bilce contulis (accus exprimatur. Cui admitceantur Succorum becabungz., Ca yurr loarn Nafturt. aq. ana lilz. uni femis. Vini albiopt. libr. octo. Mala Limoz. cum toto incif. No duo-decim.

decim. Radic. Bryoniz rec. libr. quatuor. Raplani fylveftr. libr. duz. Cortic. Winterani librz dimid. Nucum Mofcat. unciz quatuor. Macerentur per triduum, & diftillentur.

Antidotus, feu Theriaca noftra. Our Antidate or Treacle. d

I. T Abe powder of Vipers ten onnees: Opium extra Eted, frained and infpifated with juice of Li-Eld, frained and info[Jated write j eight Omnes: Brease mineral, 54fper goves, Frejinson Suderrar, Consum , Normetz, Zeidanz, Cabeki, Campin, C. Marth, Alexe, Ginger, Peper, Can Bay berrie, Winner Back, Elecamp-ter son anness: Chymical golef Anifels, f each are annes: Firigi Binoy, m of Janipe Barrie, of each eleven paud of anipe Barrie, of each eleven paud ĉ er Berries, of e. eing in fubtle them

е 1.18 The Prices of Drigs

Contices, or Barks.

A fia ligner, the pound I s.8 d. Cortex Elatheria, the ounce 5d. Clove bark, the pound 2.1. Caperbark, the pound 2.1. Guaiacambark, the pound 8.d. Pomgranai bark, the pound 1.1.6 d. Tamarife bark, the pound 1.1.6 d. Winter: bark, the pound 2.1.8 d. Aqua Mars, Cancer.

b

24. Take the leaves of both forts of 24. Take the leaves of both forts of Scurvie-grafs, being made very clean, of each fix poind : letthefe be bruifed, and the juice preffed forth : to which adde the juice of Brook-lime, Water creffes, of each half a pound, of the beft White wine, eight pints, twelve whole Lemons cuts, of the frefh roots of Eriony four pound, Horfe Radiff two pound, of the bark of Winteran, half a pound, of Nut-imegs four ounces. Let them be macerated three days and diffuld. three days and diffulled.

Three or four fpoonfuls of this water taken twice in a day, cures the Scurvy pre-

ADVERTISEMENT. The Vertues and Uses of the Natural Balfamum de Chili.

Here is lately brought from Chili, a Pro-vince in America, a most Excellent Na-tural Balforn differing both from that of Peru and Kolu, bor no ways inferiour in Vir-gues and Excellence, as the feveral Experiments fately made of it by feveral Learned Phyficians, in the curing of Difeases, has given evident De-monstration. monitration.

Aqua Raphani Composita. 33. Or, Compound water of Rhadilhes. The Colledge. Take of the leaves of С both forts of Scurvy-grals, of each fix pound, having bruifed them, prefs the juyce of them, with which mix of the juyce of Brooklime and Watercreffes; of each one pound and an balf; of the beft white wine eight pound; twelve whole Lemmons, peels and all, frefb Briony roots four pound, the roots of wild Radiflost two ponnd, Capt. Winter's Cinnamon half a pound, Nutmigs four ounces, fleep them all together; and then diftill them.

g Obstructions of the Mescutery,

For the Right Honourable, Robert Lord Brok, for Obstructions of Melentery-Glanduls, by Dr. Willis, &c. R Extrad. Explore. fine Parg. 36. Treeb. Abfyntb. 3iii. Syr. de Abfyntb. q. f. M. f. Pil. 6. of a dram. He was to take three in the more-6. of a dram. He was to take three in the morn-ing, to exercife an hourafter, and then to drink adraught of the next Water: Take Scarry-grafs, Water-criffer, Brock-lime, Wood Night fhade, M vili. Wornwood M iii. Winter-bark braifed Sill, the Peels of four Oranger, Branfwick Ber two gallens; difit them in a common Still till dry; keep it to ufe. In all his Broths boil Kost of Scorzonery, farainger for the scheme of Scorzonery, farainger 6. of a dra In all his Broths boil Kost of Scorzoney, flavinge of Leory, and leaves and roots of Scorzoney, flavinge preferved Nutmegy, Conferver of common and Roman Warnswood, each 3j6. Spee. Diarrhod. 36. Specier of the three Sanders 3ii. Salt of Steel 3i6. Symp of the Juice of Oranget fufficient to make an Electasary Of which take the quantity of a Nutmeg at five in the afternoon, dink after it a draught of the for-mer Water fweetned with Pearl Sugar. ving. Tak

Fig.4. The advertisements of William Salmon for "Balsam de Chili." a) Royal College of Physicians of London and Thomas Healde, Pharmacopoeia Londinensis Collegarum, (London: W. Bentley, L. Sadler, and R. Beaumont, 1651), 64; b) John Heydon, The Holy Guide: Leading the Way to Long Life, Health, Youth, (London: T. M., 1662), 5: 45; c) Nicholas Culpeper, Pharmacopoeia Londinensis or the London Dispensatory further Adorned by the Studies and Collections of the Fellows, (London: George Sawbridge, 1675), 94; d) William Salmon, Polygraphice, (London: Thomas Passenger, 1685), 7: 724; e) Gideon Harvey, The Family Physician and the House Apothecaries, (London: T. R., 1676), 118; f) William Salmon, Systema Medicinale, a Complete System of Physick Theoretical and Practical, (London: T. Passenger, 1686), Advertisement; g) John Hall, Select Observations on English Bodies of Eminent Persons in Desperate Diseases, (London: William Marshall, 1683), 286.

Courtesy of the Royal College of Physicians of London and Thomas Healde, John Heydon, Nicholas Culpeper, William Salmon, Gideon Harvey, John Hall.

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At the end of the seventeenth century, the British physician William Salmon and booksellers Thomas Passenger and Ebenezer Tracy began to sell a special product by the name of "Balsam de Chili." The remedy was advertised as being similar to "Balsam de Peru," a famous panacea in that period. The miraculous ingredient in this balsam, reported to be a "small tree of Chili," was probably Drimys winteri. In the same period, the studied plant, known in England as Winter's Bark or Winter's cinnamon, was used by English apothecaries in many recipes (Figure 4). Nevertheless, the Chilean native plant was often confused with cinnamon and Canella alba (Canella winterana). After the British naturalist Hans Sloane, in 1693, published traveler George Handisyd's botanical description of Drimys winteri, Balsam de Chili gradually disappeared from the English market.



Fig.5. Drimys winteri.

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During the colonial period, Indigenous and local environmental knowledge about *Drimys winteri* was partly ignored by European voyagers. The constructed knowledge system circulated in the European written sources was mainly based on travelers' reports and entirely limited to European botanical knowledge. Stated scientific nonknowledge and exclusion of Other ecological knowledge might represent a form of environmental ignorance: that is, not only a lack of knowledge but also the inability to give specific meaning and importance to plants for the European audience. The environmental ignorance surrounding *Drimys winteri* supported the European epistemic hierarchy, entrenched coloniality, and promoted the persisting unbalanced relationship between different forms of knowledge. The *Drimys winteri* sold nowadays with the Spanish name *canelo*, as a food spice similar to pepper and related to Mapuche culture, represents one of the outcomes of the circulation of nonknowledge. While the botanical misidentification of the plant ended in 1776, the exclusion and oppression of Other knowledge have continued in various forms. Consequently, the circulation of environmental ignorance in European written sources was not a temporary process. It was limited to the European context but has long-term effects and still affects contemporary knowledge circulation about *Drimys winteri* in Chile.

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Further readings:

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- Burdick, Catherine, "Patagonian Cinnamon and Pepper: Blending Geography in Alonso de Ovalle's *Tabula Geographica Regni Chile* (1646)." *Imago Mundi* 66, no. 2 (2014): 196–212. doi:10.1080/03085694.2014.902581.
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