Botanizing in the Borderlands

Lance C. Thurner

Summary

In the 1790s, Spanish naturalists traveled the Spanish Americas to bring European medical knowledge and to seek out useful and commodifiable indigenous resources. The story of one such naturalist, Ignacio de León y Pérez, dispatched to the borderlands between Spanish garrisons and Apache territory, demonstrates the limits of Enlightenment science in the furthest reaches of empire.

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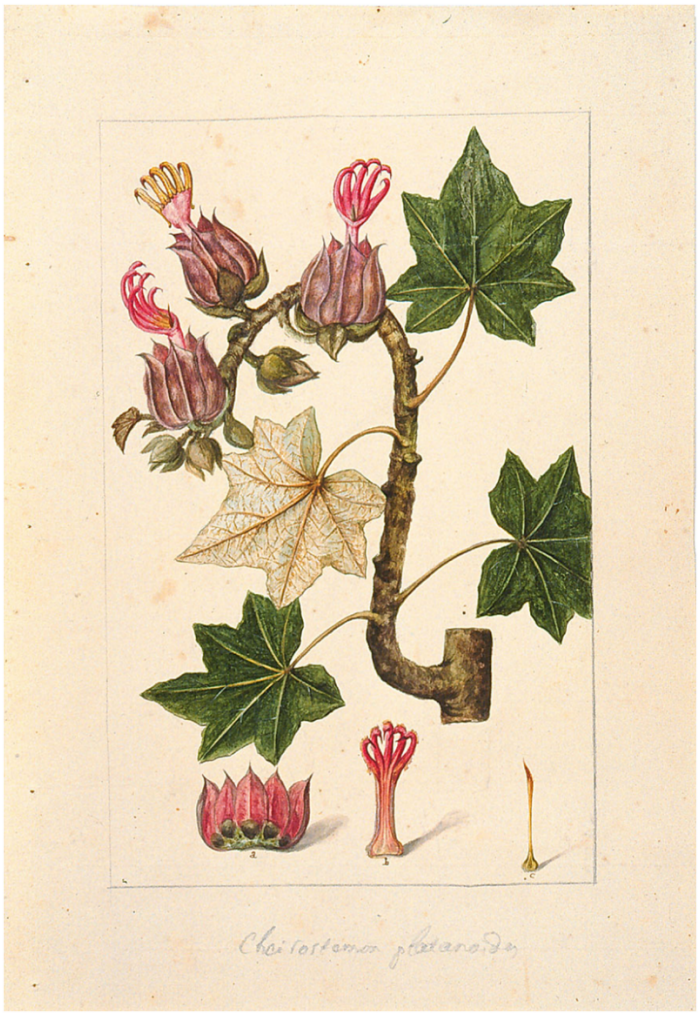
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Depiction of Apache in the region of the Bolsón de Mapimi badlands near Santa Rosa garrison. Spaniards made a strong distinction between "conquered Indians" who accepted Catholicism and were politically integrated into the empire and "savage Indians" or "barbarians" who continued to successfully resist European imperialism. The Apache represented the epitome of intransigent Indians from the Spanish perspective, and thusly were depicted in this map as especially sub-human.

"I am so miserable here that if God doesn't fix this by giving me another posting I think I'll mutiny,"—bemoaned Ignacio de León y Pérez, resident pharmacist and botanist at Santa Rosa garrison, located near the present-day Texas border, where in the late eighteenth century the Spanish empire yielded to indigenous dominion. It wasn't supposed to be this hard to be a young man of science bringing enlightenment to the edge of civilization. In fact, as a young "Indian" man of science his superiors back in Mexico City thought he would have certain advantages. But in the 1790s, in the borderlands where Lipan, Mescalero, and Gila Apache battled to maintain their autonomy, cosmopolitan ideas of indigeneity and science met their limits (de León y Pérez 28 March 1793 & 30 April 1793).

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León y Pérez was a guinea pig and model for enlightenment reform. To prove to skeptics the improvability of native minds, Martín de Sessé and Vicente Cervantes, directors of the Royal Botanical Expedition to New Spain and its offshoot, the Botanical Garden in Mexico City, admitted him two years prior into their training program. There, León y Pérez excelled: "He has succeeded in ratifying the high hopes of the Director and Professor of this School, regarding the progress that [indigenous] Mexicans could reach in regards to botany [suggesting] they may aid in the perfection of the garden or be given occasion to travel to extend the light and distribute their knowledge" (Valdés 1794: 704). After León y Pérez demonstrated his mastery of Linnaean binomial nomenclature to the public, Sessé commissioned him as an official botanist while he served in the frontier army in the wars against the Ndé, known to the Spaniards and ever since as the Apache (Valdés 1794: 705).



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The *arbol de manitas* (little hand tree). León y Pérez's mentor, Martín de Sessé, attempted unsuccessfully to break the monopoly that the indigenous residents of Toluca had on the flowers of this tree, which were used for spiritual and healing ceremonies.

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Sessé and Cervantes, like many, were particularly keen to collect the supposedly innate knowledge Indians had of nature. King Charles III specifically mandated the expedition to New Spain to recover any remaining traces of Aztec medical botany, knowledge that could be translated into a royal monopoly (see Bleichmar 2012). Along with their intellectual peers in Mexico City, they bemoaned that "we now lack so many remedies" because the conquistadors and inquisitors had banished such wisdom. But they held out hope that "there are memories of this Medicine and Botanica among the Indians of the villages quite distant from the Cities, where our doctors never will hear of it" (de León y Gama 1782: 3).

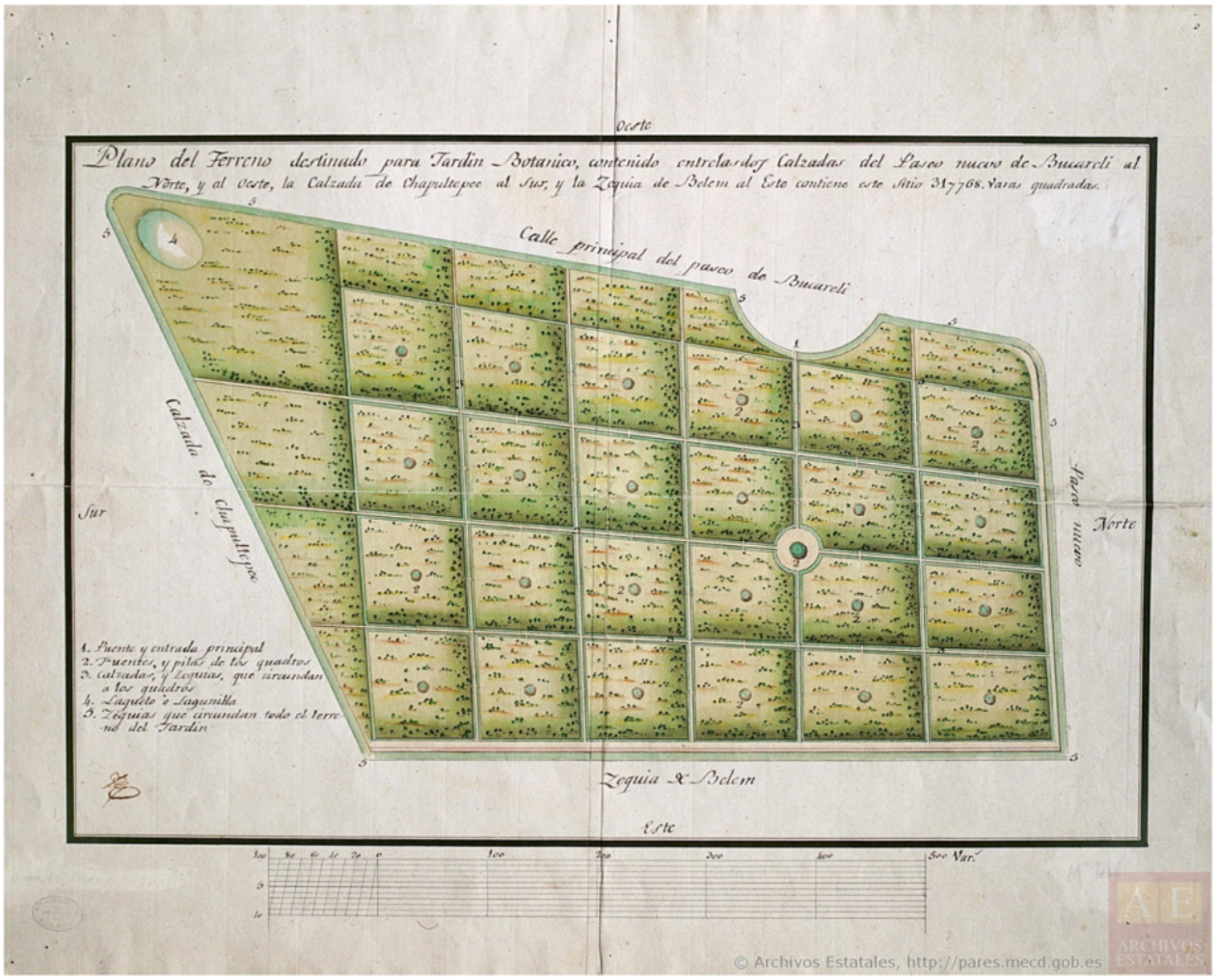
The Botanical Expedition's mission, and by extension León y Pérez's, was both to school provincial colonial doctors in "true medicine" coming from the universities of Europe and to recover uncontaminated, authentic Indian medicine from the edges of empire.

León y Pérez was an ideal fieldworker, or so they hoped, one with a bit of that innate Indian capacity to know plants. But enlightenment-style indigeneity received no warm welcome on the frontier. At Santa Rosa, he entered a quagmire of broken peace treaties, murder and genocide, kidnapping and marauding. His superior, commander Ramón de Castro, favored genocide over peacemaking and felt no compulsion to honor truces made with "barbarians." But it was less the Indian-hating than the syncretic *modus vivendi* of frontier survival that crushed his scientific mission. Immediately upon arrival, everything went wrong:

> The pharmacy is a waste since the inhabitants here [at Santa Rosa] have no respect for true medicine and medical practice. The surgeon and I have had to tolerate much derision, scorn, and infamy from the *pueblo* because of the efforts of one insolent and cocky *curandero* to persuade [the people] of our total lack of expertise. The curandero's disdainful opinion is supported by the natural crudeness of all the residents, resulting in great confusion and harm. The surgeon and I even have to fight for the respect of the Señor Comandante (the fortunate bastard). I am persuaded that around here the people are of the high opinion that the medications of the pharmacy are very harmful because they are unknown. (León y Pérez 3 February 1793)

Between Spaniards and the many native peoples fighting for control of the region, violence was omnipresent. However, for all involved, survival required careful adaptation and blending of material practices—from horsemanship to healing herbs. Missionaries and frontier militias alike selectively adopted native modes of survival and warfare in such hostile environments. Although Spanish colonialism writ large relied on clear distinctions between Christian and other, the borderlands would not brook such comforts to the conquerors' souls. The darlings of León y Pérez's curriculum at the Botanical Garden—true science and pure Indian wisdom—never traveled far from the capital.

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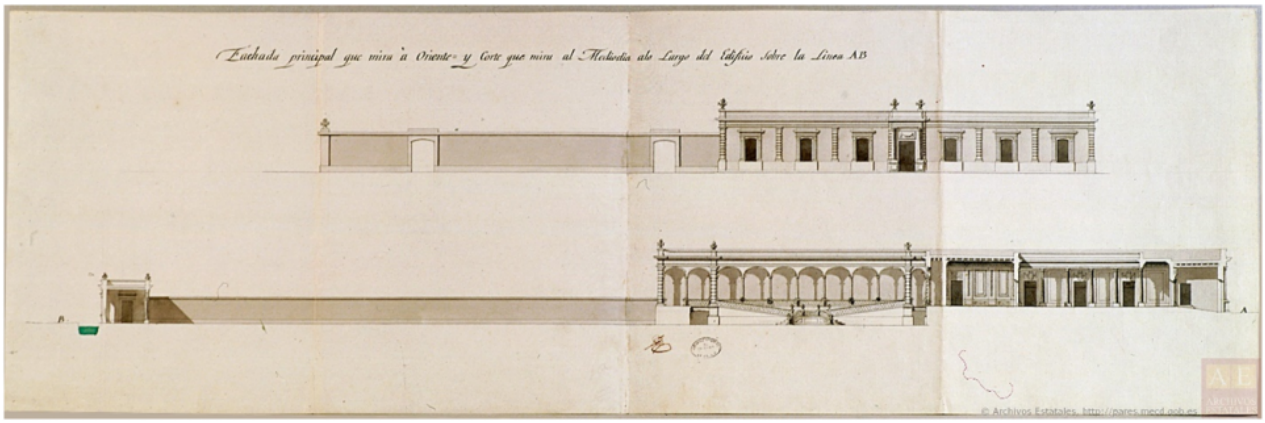
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The Botanical Garden in Mexico City circa 1793. Note the grid pattern of the plots, which allowed for organizing plant species according to Linnaean classification. The hall served not only as the headquarters and educational facility for the Botanical Expedition, but also as a public auditorium where teachers could "inspire the youth to botanize" and where "not only will the public enjoy the useful teachings, but also the beauty of this delicious art."

Therefore, things did not get any better. The "cocky curandero" kept his monopoly on the esteem of the soldiers and León y Pérez's own pedantry blinded him to the syncretic medical knowledge that surrounded him. Meanwhile, the prickly "fortunate bastard" commander forced León y Pérez to build his own facilities from adobe bricks and refused the latter's requests for an armed escort to collect specimens among the hills. León y Pérez had to resort to following behind the troops, attempting to botanize in the wake of their pillage and destruction.

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The façade of the Botanical Garden's main building.

Ignacio de León y Pérez did not rise up in revolt, yet his mission for science was a failure. Shut out from local healing networks and trapped within the fort, he learned nothing about indigenous medical practices. The weeds he scavenged he described with technical precision, but without any of the practical knowledge that the Botanical Expedition and the Botanical Garden were created to attain. His notes molded, his career floundered, and he disappeared from the historical record.

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Lance C. Thurner teaches at Rutgers Newark, where be is developing digital humanities tools for use in the classroom. His research addresses the production of knowledge, political subjectivities, and racial and national identities in eighteenth and nineteenth-century Mexico. He is also a host of the podcast *New Books in Science, Technology, and Society*. He can be reached at lancet@rutgers.edu.