

## FILIPINO PHARMACISTS IN RAFAEL ROLDÁN'S DICTIONARY

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In 1921, the doctor of Pharmacy and Spanish military pharmacist Rafael Roldán Guerrero presented to a public contest of the National Library of Madrid his literary work *Los Farmacéuticos Militares Españoles* that was awarded in the competition. Then he conceived the idea to complete the study of the Spanish pharmacist writers, and that was how the *Diccionario biográfico y bibliográfico de autores farmacéuticos españoles* came about. It was awarded again by the National library in 1946.

The enormous work remained for a long time a manuscript until between 1958 and 1976. It was edited in Madrid in four volumes of 801, 651, 605 and 772 pages, and it contains 2,486 Spanish pharmacist in total. The work gives a bibliographic description of each one of them, together with a list of their writings (books or articles).

The "Dictionary," generally known as *el Roldán*, is a monumental work realised through consultation of numerous bi-bibliographic lists, libraries, archives and newspaper libraries that kept manuscripts, books and pharmaceutical journals. It is important to know these authors and pharmacists of every age as they evolved throughout history.

Therefore, we thought that it would be very interesting to identify the pharmacists who were born in the Philippines or had relations with the Philippines. They are not many, but some of them are important and interesting enough despite being hardly known.

We are going to gather the complete name, dates and places of birth and death, volume number, and the pages where they could be found in the "Diccionario", their professional achievements (most of whom were military pharmacist), the number of years they have resided in the archipelago, as well as their works and publications.

**85. ALONSO MARTÍNEZ, Alejandro** (El Pardo, Madrid, 1853 – 1927) (1, 136-138)

A military pharmacist who was assigned to the Philippine army. He was with the Medicine Laboratory of Manila and with the hospitals of Joló and Manila from 1883 until the surrender of the fortified town on the thirteenth of August in 1898, where he stayed as prisoner until the next year. Because of his health, he returned to the Peninsula twice.

Works: *Laboratorio sucursal de Filipinas*. Manuscript ; it shows his works in the Manila laboratory.

**87. ALONSO PULIDO, Francisco** (Espinosa del Rey, Toledo, 1863 – Madrid, 1924) (1, 140-141)

A military pharmacist and chemist who was in the Philippines from 1892 until 1899. He did his military services when the war ended in the following places: Iligan, Marahini, Manila and Indang.

**170. ARRANZ Y ARCE, José** (Madrid, 1872 – Villa de Don Fadrique, Toledo, 1938) (1, 229-231).

A military pharmacist who practiced in the Medicine Laboratory of Manila and in the hospitals of Zamboanga and Ilo-Ilo, Philippines.

**286. BENÍTEZ DE AGUILAR, Fernando** (Medina Sidonia, Cádiz, 1839 -?) (1, 351-352)

A military doctor assigned in the Philippines. He obtained his degree in Pharmacy in 1876 with a special distinction from the University of Santo Tomás de Manila. He was professor in Pharmaceutical Vegetable Subject in the Faculty of Pharmacy, and he also carried out the duty of *Colegio de San José's* administrator and member of the Islands Health Council posts. Because of his health, he returned to the Peninsula in 1883.

**290. BENITO DEL CAÑO, Ciro** (Encinas, Valladolid, 1872 – Madrid, 1945) (1, 354-355)

A military pharmacist. He worked as a chemist in Malate and Manila's hospitals in 1899. He was secretary of the Open information to investigate the heads of the prisoner pharmacists and the behaviour

of the officers in the Philippines during the USA war. He was recipient of the Luzón's medal.

**347. BOTET Y CARRERAS, Domingo** (Bagur, Gerona, 1853 - Valencia, 1937) (1, 413-415)

A military pharmacist. He was a volunteer in the Philippines from 1875 until 1881 and worked in the Chemist Laboratory of Manila, in an ambulance in Joló and in the hospitals of Manila, Zamboanga and Cotabato.

Works: *Transformaciones cósmicas y nuevas teorías de la formación de la Tierra*. Manila, printer's El Oriente, 1878, 37 p.; *El centro de la Tierra. Ilustración del Oriente*, 1, 3, Manila, 1877; *El centro de la Tierra. Réplica. Ilustración del Oriente*. Manila, 1878.

**348. BOTET Y JONULLÁ, Ramón** (Palamós, Gerona, 1828 - Barcelona, 1898) (1, 415-420)

A military pharmacist. He was assigned in Manila from 1866 to 1873, the maximum continuance time allowed. He was manager of the Chemical Pharmaceutical Laboratory of the Philippine islands, and was a professor of General Chemistry of the Faculty of Pharmacy of the University of *Santo Tomás*.

Works: *Tratado completo de Química general filosófica*. Manila, Est. Tip. Santo Tomás, 1875, 12+239 p. It is the first and only volume released, the rest of the manuscript remains in Manila.

**350. BOU GASCÓ, Fernando** (Alcora, Castellón, 1827 - Castellón, 1884) (1, 420-421)

A civil pharmacist. He studied in Paris and London, travelled around Cuba and Philippines where he finally settled in Cebú to work for a chemical pharmaceutical laboratory in 1867.

**366. BRÚ Y MENDILUCE, Federico** (Villar del Saz, Teruel, 1844 - ?) (2, 429-430)

A civil pharmacist. He practised in the Philippines since the lost of the colony.

**467. CARBÓ Y FORES, Ricardo** (San Fernando, La Unión, Luzón, Filipinas, 1884 - ?) (1, 540-542)

A civil pharmacist. He was born in the Philippines and returned to the Peninsula very young.

**496. CASANOVAS Y LLOBET, Antonio** (Cervera, Lérida, 1869 – Madrid, 1960) (1, 574-577)

A military pharmacist. He was posted in the Philippines between 1892 and 1899 in the military hospitals of Parang-Parang, Zamboanga, Manila and Malate with its outbuildings of Concordia, Paco Convent, Pandacan and *San Pedro Mártir*, and also in the Medicine Laboratory of Manila. In 1894, he was nominated Professor of Chemical Analysis in the University of *Santo Tomas de Manila*, where he took a degree in Law in 1898. He was also manager of the Municipal Laboratory of Manila, member of the Board of Directors that organized the IX International Conference of Hygiene and Demography celebrated in Manila in 1898, and was a fellow of the Royal Academy of Medicine and Surgery of Manila.

**551. CIRUJEDA CIRUJEDA, Francisco** (Mogente, Valencia, 1853 – Madrid, 1920) (1, 665)

A soldier and pharmacist. He was posted for many years in the Philippines.

**571. COLL Y CUNILLERA, Juan** (Villafranca del Panadés, Barcelona, 1835 - ?) (1, 700-703)

A military pharmacist who practised in the Philippines from 1867 until 1868 and from 1873 until 1874.

**620. CUÉLLAR, Juan de** (s. XVIII) (1, 746-749)

A civil pharmacist. He worked for a Philippine company as naturalist and as chemist that allowed him to study in-depth the flora of the archipelago, gathering numerous samples of animals, vegetables and minerals that were remitted to the Royal Office of Natural history of Madrid.

Works: *Memoria sobre el alcanfor*. Ms., 20/01/1790; *El cultivo de la pimienta*. Ms., 27/07/1791; *Memoria sobre el beneficio de la seda y diferentes plantas textiles*. Ms. 29/12/1791; *Vocabulario de correspondencia entre los nombres malayos, tagalos y castellanos de ciertas plantas*. Ms. Indias Archive; *Descripción del árbol que produce la canela de Manila*. Madrid, 1793.

**762. EZQUERRA DEL BAYO Y GARCÍA DE VALLADOLID, Joaquín** (Manila, 1863 – Madrid, 1942) (2, 114-120)

A military pharmacist and painter. He was born in the Philippines and returned to the peninsula very young.

Works: *Historia del comercio de la India y de sus principales productos farmacéuticos*. Ms. Madrid, 103 p.

**815. FERNÁNDEZ MÍNGUEZ, César** (Benavente, Zamora, 1853 – Zamboanga, Filipinas, 1890) (2, 166-167)

A military pharmacist. He was posted in the Philippines at the Military Hospital of Zamboanga where he died from an overdose of strychnine while he was writing to put the effects of the poison on record.

**913. GAMUNDI BALLESTER, Juan** (Muro de Mallorca, 1870 - ?) (2, 316-319)

A military pharmacist. He worked in the hospitals of Marahui, Iligan and Zamboanga.

**948. GARCÍA MERCET, Ricardo** (Bilbao, 1860 – Madrid, 1933) (2, 346-360)

A military pharmacist and an important entomologist. He worked in Chemical Pharmaceutical Laboratory in the Philippines from 1883 until his maximum period of service in 1894, also worked in the hospitals of Joló, Zamboanga, Cotabato, Mindanao and Manila during the epidemic of cholera.

Works: He left a lot of articles in the Philippine papers: *La Oceanía Española*, he was the manager of *El Comercio* y *La Opinión*, and the founder of *El Progreso*.

**1066. GONZÁLEZ CARRERAS, Eduardo** (Alora, Málaga, 1848 - ?)  
(2, 493-494)

A military pharmacist. He practised in the hospital and in the Pharmaceutical Laboratory of Manila between 1890 and 1898. He received a medal for *Luzón* campaign.

**1134. GUERRERO, León María** (Ermita, Manila, 1853 - ?) (2, 551-552)

A pharmacist for the University of Manila, where he was teacher of Pharmaceutical Vegetable Matter and dean of its Faculty of Pharmacy. Extraordinary botanist, he was also zoologist of the Mines Inspection, chemical expert of the Royal Court of Manila. After Independence, he was Mountains and Mines General Inspector, Minister of Agriculture, Industry and Trade, a member of parliament and secretary of the meeting for the Philippine exhibition of San Luis (USA).

Works: Collaborated in the Philippine papers: *La Revista Farmacéutica de Filipinas*, *Crónica de las Ciencias Médicas*, founder and manager of *La República Filipina*, collaborated also in the Spanish papers *La Farmacia Moderna*, *La Farmacia Española* and other professional papers in Madrid.

**1197. IAHLING CALA, Eugenio Carlos** (Manila - ?) (2, 605)

A pharmacist for the University of Barcelona, who returned to Manila where he later practised his profession.

Works: *Procedimientos generales de análisis de grasas*. Tesis doctoral, 1897, ms. 102 p.

**1199. IBORRA Y GADEA, Miguel** (Gorga, Alicante, 1873 - ?)  
(2, 605-606)

A military pharmacist. He was in the Philippines from 1891 until 1894 in the hospitals of Parang-Parang, Calamba and Manila, also in Mindanao and Luzón campaigns.

**1358. LUNA Y NOVICIO, Antonio** (Manila, 1868 - Kabanatuan, Nueva Écija, 1899) (3, 135-136)

A Ph.D. in Pharmacy, trained in the Universities of Santo Tomás

de Manila, Barcelona and Madrid. He later studied chemistry and bacteriology in Gante and Paris, returning to Manila with a post at the Municipal Laboratory of Manila. He was in favour of the independence of Philippines, thus, was deported prisoner to Madrid. Once set free, he returned to the Philippines where he was nominated Secretary of War. He was murdered because of the political rivalries between the pro and anti-independence campaigners.

Works: During his stay in Madrid, he founded the bi-weekly paper *La Solidaridad* where he announced his ideals and the Philippine customs under the signature of "Tagailog," writing moreover in *El Siglo Médico* and *La Farmacia Moderna*. In Manila, he founded *La Independencia* with a marked revolutionary character, and collaborated in *La Instrucción Filipina* y *Revista Farmacéutica*.

**1454. MARTÍNEZ CORTINA, Juan** (Murcia, 1847 - ?) (3, 259-260)

A military pharmacist. He was posted in the Philippines and practised in the hospitals of Cotabato, Zamboanga and Manila. He was also in the expedition to Joló.

**1548. MIRANDA BISTUER, Vicente** (Tamarite, Huesca, 1858 – Huesca, 1907)

A military pharmacist and doctor of Pharmacy. He was posted in the Philippines from 1896 until 1899. He was a chemist in Parang-Parang and in the Hospital of Zamboanga.

**1627. MOZO Y BERGANZA, Gregorio** (Sotillo de la Rivera, Burgos, 1844 – Madrid, 1932) (3, 453-455)

A military pharmacist. He was in the Philippines between 1869 and 1877, he did the maximum period of service. He practised in the military hospitals of Cavite, Cotabato and Zamboanga and in the Chemical Pharmaceutical Laboratory of Manila.

**1666. NEGRO FERNÁNDEZ, Manuel** (Madrid, 1832 – 1890) (3, 513-515)

A military pharmacist. He was posted in the Philippines from 1883 until 1889. He was manager of the Chemical Pharmaceutical Laboratory of Manila, member of the Master Medical Meeting and

Economical of Pharmacy and Professor of Chemical Analysis in the Faculty of Pharmacy of the University of Santo Tomás.

Works: *Isla de Pinos. Sus aguas y utilidad de establecimiento en ella de una colonia militar de salud y aclimatación*. 1875, Nueva Gerona, Ms.; *Memoria sobre las operaciones y servicios verificados por el Laboratorio sucursal y Depósito de Medicamentos de Filipinas*. 1899, Manila, Imp. Amigos del País, 20+6 hojas.

**1671. NIETO Y CAMINO, Ladislao** (Madrid, 1861 – San Ildefonso, Segovia, 1939) (3, 517-525)

A military pharmacist and holder of a Ph.D. in Pharmacy. He practised in the Philippines from 1883 until 1889 and from 1894 to 1898, in the hospitals of Cotabato, Zamboanga, Joló and in the Medicine Laboratory of Manila. He took part actively in the epidemic of asiatic disease of this capital city in 1889. He was secretary of Health Meetings of Cotabato and Joló, and member of the Health Committee for the Exhibition of Philippines of 1894. He received the Medal of Cross for the worthy military combats of Mindanao.

Works: *Joló. Un triunfo de la higiene. Comunicación leída*. Madrid, 1890, 24 p.; *Noticia sobre el Gulaman de Filipinas. La Farmacia Española, 19, 1887*; *Especies raras en Mindanao. La Farmacia Española, 19, 1887*; *Las Ciencias Médicas en Filipinas. Usos en Mindanao. La Farmacia Española, 19, 1887*; *La farmacia en Insulindia. La Farmacia Española, 24, 1892*; *Bálsamo Tagulanay. La Farmacia Española, 24, 1892*; *Joló. Esbozo geológico. Revista de Sanidad Militar, 4, 1890*; *Algunos datos para la flora y la fauna de Mindanao y Joló. Revista de Sanidad Militar, 3, 1890*; *Bibliografía. Contribución al estudio de Joló. Por don José Solís, don Carlos Cano, don Ramón Suria y don Antonio Roa, profesores de Sanidad Militar. Revista de Sanidad Militar, 4, 1890*; *Contribución al estudio de la flora de Joló. Revista de Sanidad Militar, 4, 1890*; *Marahui. Notas de Historia Natural. Revista de Sanidad Militar, 11, 1897*; *Plantas de los alrededores de Yligan. Revista de Sanidad Militar, 12, 1898*.

**1686. OLEA Y CÓRDOVA, Gregorio** (Madrid, 1862 – 1943) (3, 543-546)

A military pharmacist. He was in the Philippines from 1883 until 1889 and from 1890 until 1892, working in the hospitals of Zamboanga, Cotabato and Manila, and in the Medicine Laboratory and Depot of this



capital city. He also was a professor of Pharmaceutical Animal and Mineral Matter in the Faculty of Pharmacy of the University of Santo Tomás de Manila.

**1767. PELEGRÍ Y CAMPS, Eusebio** (Tarragona, 1842 – Barcelona, 1918) (4, 66-70)

A military pharmacist. He resided in the Philippines from 1867 until 1872, with postings in the military hospitals of Cotabato, Zamboanga and Manila. During his stay in the capital city, he held a chair in Pharmaceutical Matter and Practise of Operations in the Royal and Pontifical University of Santo Tomas.

Works: *Farmacofitografía y materia vegetal de Filipinas*. Madrid, 1882; Los productos naturales filipinos en la Exposición Farmacéutica. *La Voz de la Farmacia*, 15, 1883; El origen del bálsamo de Gargum. *El Restaurador Farmacéutico*, 33, 1877; El bálsamo de Gargum. *El Restaurador Farmacéutico*, 33, 1877; El elemi de Manila, *El Restaurador Farmacéutico*, 35, 1879; El macabujari. *El Restaurador Farmacéutico*, 35, 1879; Tacamaca de Filipinas. *El Restaurador Farmacéutico*, 36, 1880; Igasura o haba de San Ignacio. *El Restaurador Farmacéutico*, 36, 1880; Corteza de dita. *El Restaurador Farmacéutico*, 36, 1880.

**1819. PÉREZ TRIVIÑO, Eugenio** (Granada, 1847 - 1907) (4, 96-97)

A military pharmacist. He was in the Philippines from 1875 until 1883 working in the hospitals of Cotabato, Zamboanga and Manila. In addition, he also worked in the Chemical Pharmaceutical Laboratory in Manila.

**1984. ROA Y GARCÍA, Antonio** (Madrid, 1860 – 1923) (4, 278-280)

A military pharmacist. He rendered services in the Philippines from 1886 to 1889 in the military hospitals of Joló, Zamboanga and Manila, where he also practised as professor of the Faculty of Pharmacy.

Works: *Contribución al estudio estadístico-higiénico de Joló*, in collaboration with José Solís, Carlos Cano and Ramón Suria. Manila, 1889.

**2057. ROSARIO Y SALES, Anacleto del** (Manila, 1860 – 1895)  
(4, 373-374)

A civil pharmacist, chemist and micrographist. He graduated in the Faculty of Pharmacy in the University of Santo Tomás de Manila. He was professor of Chemistry in the same University and manager of the Municipal Laboratory of Manila. In addition, he was a chemist of the Committee of Medicinal Water Studies of Philippines, secretary of the Chamber of Commerce of Manila, member of the Royal Business Society of Friends of the Country and of the Pharmaceutical College of Manila.

Works: *Los ofidios venenosos más comunes del país*. Manila, 18881; *Los olores del Pasig. Ensayos microquímicos*. Manila, 52 p., 1886; *Apuntes para el estudio de un nuevo entomofito*. Manila, 1887, 27 p.; *Memoria descriptiva de los manantiales mineromedicinales de la isla de Luzón*. He worked in collaboration with J. Centeno y J. de Vera, Madrid, 120 p.; *Estudio sobre la unidad de las fuerzas físicas. Boletín de la Sociedad de Amigos del País de Filipinas*; *Apuntes sobre el Itivan. La Farmacia Española*, 18, 1886; *Contribución al estudio de la esencia de ilang-ilang. La Farmacia Española*, 25, 1893.

**2352. VECIN LLORA, María Luisa** (Manila, 1901 - ?) (4, 667)

She graduated and had a Ph.D in Pharmacy from the University of Madrid.

Works: *Estudio botánico e histológico de la "Tinospora Rumphll, Boerl (Makabuhay)*. Tesis doctoral. Madrid, 1929, 40 p.

### **Brief statistical analysis**

As you can see, we found 34 pharmaceutical writers who were born or who temporarily resided in the Philippines. Undoubtedly, this is not too many of the 2,486 that can be found in the *Diccionario*, not even amounting to 1.5 %. The list consists of 33 men and one woman who practically lived in the second half of the 19<sup>th</sup> century. Only 7 were born in the archipelago, some returned early to the peninsula and lost touch with their native land. On the other hand, those who were born in Spain, practised and lived longer in the Philippines.

As for professions, clearly, dominant were the military pharmacists, 23, against 11 civilians. Rafael Roldán, the author of the study was a chemist. I wish to emphasize that this may be because for a long time, these military pharmacists who were posted in Manila practised teaching as professors of the Faculty of Pharmacy of the University of Santo Tomás.

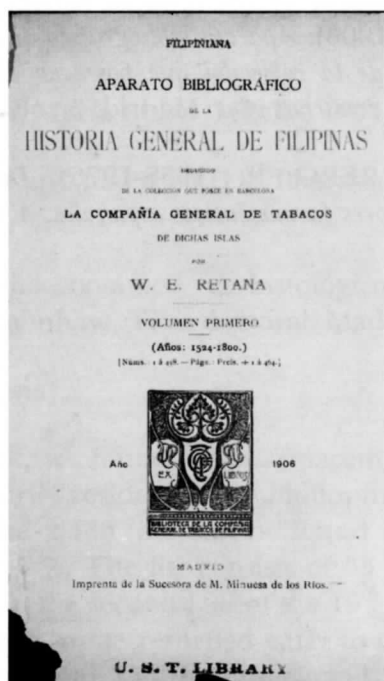
All of them were authors of books or articles, however, we just considered the writings released in Manila or related with the Philippines. We believe that with this contribution, it is possible to improve significantly the knowledge about the history of Philippine Pharmacy during the last decades of the Spanish colonial period which concludes in August of 1898, giving rise to a general crisis in Spain. It may have been the “*Regenerator*” social movement and the 98 generation literary themes.

## References

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2. ROLDÁN GUERRERO, R. (1958-1976): *Diccionario biográfico y bibliográfico de autores farmacéuticos españoles*. 4 vols. 801, 651, 605 y 772 p. Madrid



**Fig. 43.** Cubierta de la obra bio-bibliográfica de Rafael Roldán sobre los farmacéuticos españoles



**Fig. 44.** Cubierta de la bibliografía filipina del gran filipinista español Wenceslao E. Retana