

GIUSEPPE RADDI

(Florence, 9 July 1770 Rhodes, 7 September 1829)

A botanist in Egypt

Giuseppe Angelelli, The Franco-Tuscan Expedition to Egypt Commanded by Jean-François Champollion and Ippolito Rossellini, circa 1830-1836, measurement 3,80 x 2,40 m - Archaeological Museum of Firenze (Egyptian Museum)



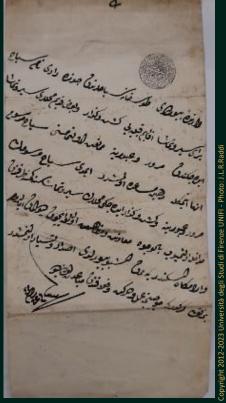


In 1827, thanks to the interest of Grand Duke Leopold II, a group of Tuscan scientists became part of the scientific-literary expedition Egypt that the French were preparing under the leadership of Jean-François Champollion; in the Tuscan group led by Ippolito Rosellini (1800-1843), professor of oriental languages at the University of Pisa, Giuseppe Raddi was chosen as naturalist.

The expedition left in July 1828 and arrived in Alexandria on 18 August. After the French presence, the viceroy of Egypt Mohamed Ali opened the doors to Europeans, not excluding Italians; it is from here that the flow of personalities began who, from our country, went to occupy various key positions in the Egyptian administration; among them many were naturalists (Tomei, Amadei 2008)

Detail of the work shows older Giuseppe Raddi





Salvo conducted to Giuseppe Raddi to all the provinces of Chibbilia. Alexandria 1244 Turkish year, 19 September 1828 SBA -Athenaeum Library System

"During the Franco-Tuscan mission, Raddi broke away from the other menbri of the expedition, began his research by exploring the environs of Alexandria and Rosetta, reached ala first ataratta of the Nile, and later returned to Lower Egypt. His wanderings around the country were made possible by the disponinibilitzá de un salvoconduct Kediviale.



Detail: Alexanderschlacht (Battle of Issus), 1529 ALBRECHT ALTDORFER 158.4 x 120.3 cm - Old Munich Picture Gallery



Expedition challenges

Due to the existence of the laissez-passer Giuseppe Raddi was in charge of managing and executing the accounting of all his expenses undertaken in Egypt (from the Delta along the Nile). La nota di tutte le spese giornaliere effettuate dalla commissione toscana durante la spedizione scientifico-letteraria nell'Egitto e nella Nubia in questo registro compilato dal naturalista fiorentino consta di 24 pagine, dove Raddi tiene la contabilità dal giorno 21 di agosto 1828 al 31 luglio 1829.

In this inventory you can find both fish and animals (e.g. rabbits, hogs, mammals, fish), sometimes also distinguished by their scientific name (genera and species), as well as the shells and minerals that were bought during the trip. It also includes the various items that were used for inland excursions and for the preparation of animals and plants. , Raddi Manuscripts III, insert entitled "Egypt," Note of daily expenses during the trip to Egypt: "August 23, 1828 - Import of various bulbs, fruits and seeds bought at the market. August 24, 1828 - For No. 3 snakes; Some shells with their respective inhabitants bought at the market; For No. 5 small fish, likewise bought at the market. August 29, 1828 small lizard (Tupinambis). April 23, 1829 -Currency of a fossil shell.



Satellite image of the expedition site by Giuseppe Raddi

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The document prepared by Raddi describes the accounting of the expenses of his participation in the expedition





Archive containing documentation, letters and manuscripts proving the expedition carried out

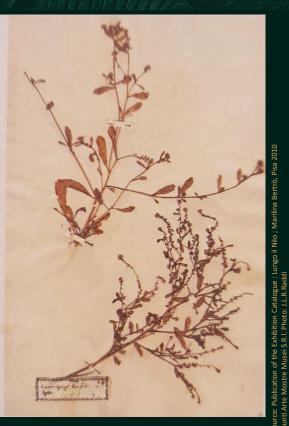
State Archive, Florence

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Opening page of the letter from Giuseppe Raddi to the Duke of Tuscany La lettera completa comprende un folglio di cm 41,2 x 29,3 ripiegato a metà e scritoo sulle quattro facciate; Museo botanico di Pisa. Sezione manoscritti.



Coronopus raddi, Savi, Egypt type specimen, 1828-1829 Giuseppe Raddi collected the specimen, The specimen is pinned to a sheet of paper measuring 40.07 x26.9 cm. Botanical Museum of Pisa. General Herbarium PI - 2884 Coropus raddii Savi,

Lettera di Giusewppe Radio - Cairo , 24 September 1828 with which he describes his first contact with the land of the Nile; the journey from Alessandria to Cairo, the animals and the stones found, the welcome received, etc. Nela pagina iniziale, Giuseppe Radio descrive il suo primo contato con la terra del Nilo.

......- "So it was about noon on the 18th of last August that we arrived in the port of Allesandria, and it was also on the following day, the 19th, that we put ashore, and both Professor Rosellini and I were lodged with the Tuscan Consul, Mr. Carlos Rossetti, from whom we were showered with kindnesses during our stay in that city. I began to visit the churches, which you will find deserted E quazi without trácia of vegetation, if you sostamnza nothing but small Dattoli Boschettti ,....."-



During this return trip to Thebes, Raddi was able to collect more abundantly and freely, as he himself reported to Count Vittorio Fossombroni, giving some details about the increase of his naturalist collections: "Although I will bring a good and interesting collection of reptiles. And although the number of vegetables is not very big, nevertheless, I made some very important checks on your products,...... In short, the E.V. can safely rely on my zeal and activity to undertake the honourable Commission which S.A.I. and R., just as the EE. LL. have been pleased to entrust me with."



Luigi Zoppi (notes. 1838-1845) PORTRAIT OF VITTORIO FOSSOMBRONI 1845 Oil on canvas, 127×104 cm

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Letter to Vittorio Fossombroni regarding Giuseppe Raddi's trip to Egypt



The return trip and his death

In mid-July an improvement in his condition gave hope of an imminent recovery, but on the 24th of the same month his illness worsened so much that later, confident that he could be better treated at home, he decided to embark for Italy. When his ship arrived near Rhodes on 6 September, his health conditions were so desperate that he had to be hurriedly landed on the island, where he died the next day, 7 September 1829.

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Death of Giuseppe Raddi



A botanist and his legacy

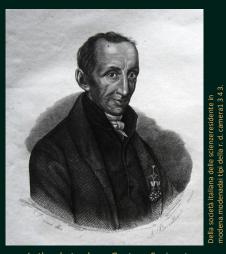
Ippolito Rosellini in novembro 1829, in a letter from Livorno to His Excellency the Minister of Foreign Affairs of Tuscany -Vittorio Fossombroni, seriveva among other things: "The satisfaction of the terminated Journey and the richness of our results, has been too much embittered by the painful loss of our indefatigable companion Prof. Toscani and French. Raddi Toscani e francesi, we were filled with sadness of it so that no Gioconda idea há could from that announcement onward cheer our spirits. So many the egrégio gifts of this great Man had earned him the hearts of all."



LE. CONSOLATO GENERALE Eccellenza



The value of a friendship



In the photo above Gaetano Savi met Giuseppe Raddi when he was fifteen years old and since then the friendship has been solidified and has generated a lot of trust. After his death this friend continued to spread his studies.

> Images of correspondence sent between Giuseppe Raddi and Gaetano Savi show how deep their friendship went.

Savi was the son of Gaspero Savi and Maria Rogai. After initially beginning to study literature in Florence, he received a grant from the Grand Duke of Tuscany Ferdinand III. That enabled him to undertake scientific studies at the University of Pisa, including with Giorgio Santi (1746-1822) and Adolfo Targioni Tozzetti (1823-1902). In 1795 he obtained his doctorate in medicine. At the same time, he also pursued his interests in chemistry, physics and natural history. From 1801 he taught himself experimental physics in Pisa, which gave him the opportunity to renovate the institute's outdated facilities. In 1809 he was appointed to the chair of botany.

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The value of a friendship

In 1814 he was also appointed director of the botanical garden. In this position he managed to acquire the botanical collections that Giuseppe Raddi, his childhood friend, had assembled in Brazil and Egypt in 1829/1830. In 1816 he was elected member of the Royal Swedish Academy of Sciences. In 1839 he was president of the biological section of the first scientific congress in Pisa.

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Senna italica Mill. (sub Cassia senna) Pisa Botanical Garden first half of the 19th century. The herbarium field consists of a specimen collected from an individual collected in the Pisa Botanical Garden, which originated from seeds collected by Giuseppe Raddi in Egypt. Bibliography: Tomei, Baldini, Amadei, Maccioni 2003

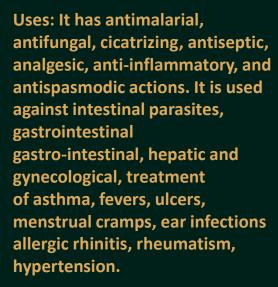
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Some highlights of the botanist's study in Egypt

Rutaceae (atualmente Haplophyllum tuberculatum [Forssk.] A.Juss)

Popular name: Shajarah (coastal region of the western Mediterranean) and Dharret rich or um-jeneinah (northern Sinai)





Haplophyllum tuberculatum (local name Meseika) in desert near industrial zone of Ras Laffan, north from Doha. Qatar, March 23, 2013Location on mapsUnnamed Road, Ad-Da<u>ḥ</u>irah, Qatar



https://www.researchgate.net/publication/322366340



Haplophyllum tuberculatum (local name Meseika) on a periphery of Green Circles (centre-pivot irrigation) in Irkhaya (Irkaya) Farms. Qatar,



Some highlights of the botanist's study in Egypt

Acacia seyal - Fabaceal (atualmente Vachellia seyal [Delile] P.J.H.Hurter)

Popular name: Red acacia, shit tah tree, shit t im wood

Uses: has antibacterial, antimalarial, antifungal, anticancer, hypoglycemic, antidiabetic, antioxidant, immunomodulatory, anti-ulcer, prebiotic. It is used for treating pneumonia, malaria, hemorrhages, rheumatic arthritis, diarrhoea, necrosis, eye and respiratory tract infection, gastric ulcers.



MDPI

molecules

A Review on the Main Phytoconstituents, Traditional Uses, Inventions, and Patent Literature of Gum Arabic Emphasizing Acacia seyal

Mohamed A. Ashour ^{1,2}, Waseem Fatima ³, Mohd. Imran ^{4,}*¹⁰, Mohammed M. Ghoneim ⁵¹⁰, Sultan Alshehri ⁶¹⁰ and Faiyaz Shakeel ^{6,4}¹⁰

- ha 91911 Samfi Arabia

surce of gum Arabic. The availability, traditional, medicinal narmaceutical, nutritional, and cosmetic applications of gum acacia have pronounced its high value and attracted global atten rizing the inventions/pat pplications related to gum A. scyal, the present review highlights recent updates regarding its constituents. Traditional, cosmetic, pharmaceutical, and medicinal uses with the possible exchanism of actions have been also reviewed. The patent search revealed the identification of 0 patents/patent applications of A. syst. The first patent related to A. syst was published in 1892, which was related to its use in the prophylaxis/treatment of kidney and bladder affections. The use of A. snal to treat cancer and osteoporosis has also been patented. Some inventions provided use of *n*, segur to treat cancer and esteeplorous nas also been patentee. Some inventions provided compositions and formulations containing *A*, segul or its ingredients for pharmaceutical and medical applications. The inventions related to agricultural applications, food industry, connetics, quality control of gum Arabic, and isolation of some chemical constituents (L-rhamnose and arabinose) from A. syal have also been summarized. The identification of only 30 patents/patent applications from 1892 to 15 November 2021 indicates a steadily growing interest and encourages developing more inventions related to A. seval. The authors recommend exploring these opportunities for the benef of society





https://www.mdpi.com/1420-3049/27/4/1171





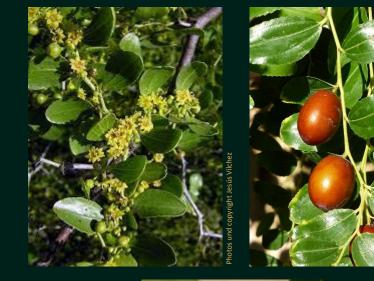


Some highlights of the botanist's study in Egypt

Ziziphus lotus Lam. - Rhamnaceae

Popular name: Jujube

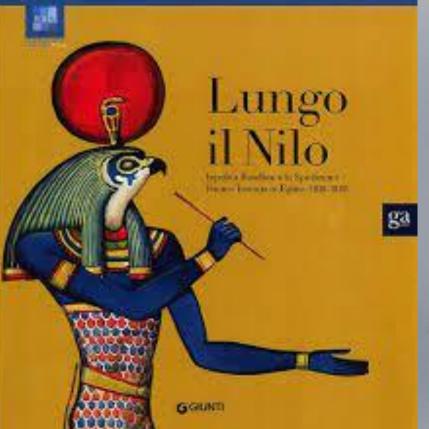
Uses: has antioxidant, litholytic, antidiabetic, dermatological, gastro- and hepatoprotective, antispasmodic, anti-inflammatory, analgesic, antiulcerogenic, antimicrobial, antitumor. It is used in the treatment of bronchitis, diarrhoea, abscesses, cardiovascular, gastrointestinal and hepatic problems, urinary and dermatological infections, insomnia, and diabetes.







A botanist and his legacy



Giuseppe Raddi: un botanico in Egitto

Paolo Emilio Tome Lucia Amadei



1. Giuseppe Raddi (1770-1829)

La flora egiziana ha interessato gli studiosi italiani a partire dal XVI secolo, quando il botanico Prospero Alpino - di Marostica - si recò al Cairo al seguito del console di Venezia. Giorgio 37 Emo: il suo *De planti Aggpui* - scattrito da più di due anni di osservazioni - e il primo lavoro che esamina la componente floristica dell'Egitto (Pampanini 1926. Nel luglio del 1789 il generale Napoleone Bonaparte sbareò ad Alessandria portando, oltre al suo esercito, ben 166 studiosi zoologi, botanici, godogi, architetti, matematici, ecc. dal lavoro dei quali prese forma la *Description de l'Egipte*, opera monumentale nella quale il paese voniva descritto sotto tutti i punti di vista.

Dopo la presenza francese il vicere d'Egitto Mohammed Ali apri le porte agli europei non escludendo gli italiani, è da qui che iniziò quel flusso di personaggi che, dal nostro paese, andarono a occupare numerosi posti chiave dell'amministrazione egiziana, fra di loro molti furono i naturalisti Tomei. Amadei 2008.

In questo contesto culturale ben si comprende come fosse chiamato a far parte della Spedizione Franco-Tosciana, fra gli altri, anche Giuseppe Raddi studioso che gia aveva dato il suo contributo scientifico durante altri viaggi esplorativi (fig. 1). Nel 1817, infatti, Baddi si era reacto nell'America del Sud al seguito della Principessa Leopoldina d'Austria, promessa sposa all'Imperatore del Brasile; e, dopo sette mesi di permanenza in quel lontano paese, egli aveva riportato in patria circa 4000 campioni di piante, oltre 3000 semi. 3300 insetti e diversi preparati di uccelli, rettili e pesci. Molte tra le opere che Baddi pubblicò in seguito allo studio di questo materiale sono ancora oggi fondamentali per la conoscenza della fora e della fauna brasiliana (Tomei 1982).

Il Raddi nacque a Firenze il 9 luglio 1770 da una famiglia modesta; per questo motivo e per essere rimasto orfano in tenera età, non pote frequentare regolarmente la scuola. Aneor giovinetto inizio quindi a lavorare in una speziera dove pote vedere e leggere libri di botanica, grazie ai quali comincio a interessarsi allo studio delle piante. Nel 1786 incontro Gaetano Savi, anch'egli giovane appassionato di storia naturale, e la loro anneizza divenne molto stretta, entrambi conobiero. On taviano Targioni Tozzetti – professore di botanica all'Arcispedale di Firenze poi professore al-

Exhibition catalog : Lungo il Nilo - Ippolito Rosellini e la Spedizione Franco-Toscana in Egito (1828-1829) curated by Marilina Betrà. Pisa Palazzo Blu - in 2010





1- Kingfisher and heron with lotus flower - BeniHasan, tomb of Khnumhotep III (tomb no. 3) October 1828 - Giuseppe Angelelli, copy from L'Hôte, Watercolour, w. cm 22.8; hcm 29.7, University Library of Pisa, Rosellini Fund. Ms. 272, f.31, c. 143



3 - Beni Hasan, tomb of Khnumhotep III (tomb no. 3) October 1828 - Giuseppe Angelelli, copy from L'Hôte., Watercolour, 22 cm wide; 29.5 cm, Pisa University Library, Rosellini Fund, Ms 272, f.28, c.129



5-Sacred Ibis - Beni Hasan, tomb of Khnumhotep III (tomb no. 3) October 1828 - Salvador Cherubini, Watercolour, larg cm 23.1; h cm 30.6, University Library of Pisa, Rosellini Fund, Ms 272, f.33, c.151



7-Pellicani -Thebes, heikh Abd el Gurnah, "tomb no. 4 (TT 78) June-July 1829 - Giuseppe Angelelli, Acquarelo, w 22.4cm; h 29.8 cm, University Library of Pisa, Rosellini Fund, Ms. 272, f.34, c 157



 Two fishes - Beni Hasan, tomb of Khnumhotep III (tomb no. 3) October 1828 Watercolour, 23 cm wide; 31.1 cm, Pisa University Library, Rosellini Fund, Ms 272, f.44, c.218



4-Ter pesci -Beni Hasan, tomb of Khnumhotep III (tomb no. 3) 30 October 1828 - Giuseppe Angelelli, Watercolour, w 22.6 cm; h 29.1 cm, Bibnlioteca Universitaria di Pisa, Fondo Rosellini, Ms. 272, f.40, c.220



6-The Hunting of the Birds - Beni Hasan, Watercolour, w 58.2 cm; h 43.1 cm, University Library of Pisa, Rosellini Fund, Ms 300, f.3, c.6

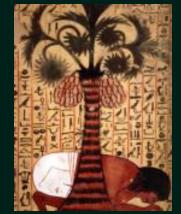




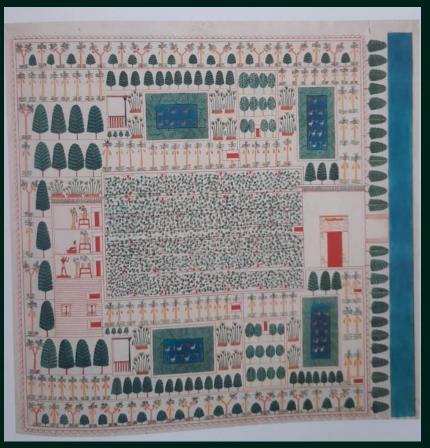
8-L'irrigazione die campi con lo shaduf - Tebe, necropoli di el-Khokha, Alessandro Ricci, Watercolour, w30.4 cm; h23.3, Biblioteca Universitaria di Pisa, Fondo Rosellini, Ms 272, f.59, c. 291



9-Zibetto Beni Hasan, tomb of Khnunhotep III (tomb no. 3) October 1828 - Giuseppe Angelelli, kargh cm 22.7; h cm 31.1, University Library of Pisa, Rosselini Fund, Ms. 272, f. 39, c 189



10-From the Image; Talk by Prof. Kim H. Veltman - Towards a New History of Culture: The Palm - given in Paris - European University of Culture September 2005



11- The Gardens of Sennefer Thebes, nevropolis of Sheih Abd el-Gurnah, tomb of Sennefer (TT 96), 1829. Allesandro Ricci, Watercolour, w 59 cm; h 45.2 cm, Biblioteca. Universitaria di Pisa, Rossilini Fund, Ms. 300-4, f.34,c.137







12-Vase - Coptic Epoch Red terracotta, h 23.8 cm. Egyptian Museum of Florence Franco-Tuscan Expedition 1828-29





16-Jewel with three handles. Franco-Tuscan Expedition 1828-1829 Ptolemaic period, H.: 56.6



19-Amulet in the shape of a vulture - Dated no preciblical, gold leaf, h cm 1.6, Egyptian Museum Florence Franco-Tuscan Expedition 1828-29



20-Ring - New Faience, diam. 2.2 cm, Egyptian Museum, Florence Franco-Tuscan Expedition 1828-29



23-Necklace, New Kingdom (?) Coloured glass paste stones, element cm, Egyptian Franco-Tuscan Expedition 1828-29

24-New Kinadom

Necklace - Late

Epoch, Coloured

vitreous paste. H

Egyptian Museum

Tuscan Expedition









26-Angel com scarab - New Kingdom (?) - Bronze, gold foil, whitish stone enamelled green dia., 2.5, Museo Egizio di Firenze Franco-Tuscan Expedition 1828-29



14-Vase for Kohl with lid - Middle cm 3.6; h cm 2.9. Egyptian Museum of Florence Franco-Tuscan Expedition 1828-

13-New Kingdom, 18th

dynasty - Red

terracotta, black

alaze. h 25.4 cm.

Egyptian Museum, Florence Franco-

Tuscan Expedition

1828-29



17-Wood. Franco-Tuscan Expedition 1828-1829. Coptic period? L.: 22.7 cm

a snake - Date

Egyptian Museum

Expedition 1828-29

Florence Franco-Tuscan



22-Collar necklace dating no shells, length cm Egyptian Museum Tuscan Expedition 1828-29

64



35-Tubetti

Expedition

Tuscan

Kohl, Franco-

. 1828-1829. Н:

5.9 cm. New

Kingdom



Kinadom

7-Chicchi grapes, Franco-Tuscan Expedition 1828-

28-Applique in the shape of a

2 cm W: 2,5 cm D: 1,3 cm, New

29-Unknown basket

D: 37 cm, New

Kingdom (prob.)

Franco-Tuscan

Tuscan Expedition

1828-1829. H.: 54

cm, New Kingdom.

Expedition 1828-

bunch of grapes - faience, Franco-

Tuscan consignment 1828-1829 H:



Ramessee, Franco-Tuscan Expedition 1828-1829, L.: 25 New Kingdom - Ramesses II





32-Scarabbeus of Amenhotep III, Franco-Tuscan Expedition 1828-Kingdom - 18th Din.





Ddisc: 14 cm, New





37-Ushabti - wood, cm, New Kingdom

IE

215

Alla

36-Pyramidion Franco-Tuscan Expedition 1828-1829, H: 35 cm base: 14x15.5 cm, New Kingdom 19th dynasty





Franco-Tuscan Expedition 1828-1829, H: 10.5 cm long: 16.4 cm, Late Period



41-Sokari-tattoo-wood,



38-Cassette ushabti with

Expedition 1828-1829, H:

Ushabti: 5 cm. Late Period

39-Canopic Box stuccoed and

painted wood.

Franco-Tuscan

Expedition 1828

1829, H: 36 cm

W: 36.4 cm Lid:

40-Winged scarab -

faience, Franco-Tuscan Expedition 1828-1829,

Period

55x35.5 cm, Late

16, 5 cm Length: 21 cm,

earth, Franco-Tuscan

28 ushabti - wood and raw

42-Ushabti limestone, Franco-Tuscan Expedition 1828-1829, Kingdom





Expedition

1828-29



Nature inspires man to express and evolve his thoughts, transforming all this inspiration into artistic and architectural achievements



Tree of Life as Palm Column: Heliodorus Pillar or Khamba Baba - The Pillar Is Dedicated to God Vasudeva





Templo Taharqa em Kawa na Núbia Superior







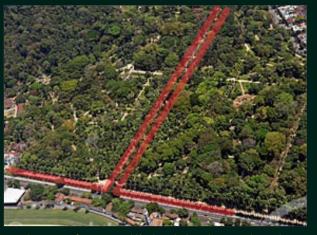
The palm grove (landscape allée) Roystonea oleracea. Along the main walkway of the Rio de Janeiro Botanical Garden.



Syagrus pseudococos (Raddi) Glassman (Langsdorffia pseudococos Raddi) G. Raddi, 'Di alcune specie nuove di rellili e plante brasiliane (1820).



Stereography of the Imperial Botanical Garden of Rio de Janeiro (William Bell, 1882)



The concept of Giuseppe Raddi's Alameda das Palmeiras in the Rio de Janeiro Botanical Garden, based on the bilateralism of the Bomboli Gardens, was dedicated to his friend and first Brazilian botanist: Friar Lei Leandro do Sacramento, out of admiration and gratitude. In view area the Alameda takes the shape of the letter "L" of Leandro.



