



Brazilian Flora 2020 User Manual

2019



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Brazilian Flora 2020

1. General Information

- ✓ The Brazilian Flora 2020 project addresses national and international targets signed by the Brazilian Government, centering around the consolidation of a national flora (including algae, fungi and land plants) in a platform that can be integrated into the model currently being developed for the *World Flora Online* (WFO).
- ✓ The monographs generated by the Brazilian Flora 2020 are the responsibility of their authors and constitute original work, thus any content taken out from other sources should be clearly referenced.
- ✓ The system was built to enable inclusion and consultation of the data taking into consideration the heterogeneous state of knowledge of the different taxonomic groups. The present system counts with two ways to include and present the data:
 - a) **Controlled Fields - mandatory for vascular plants:** consisting of options of multiple choice containing characters and character states chosen by the authors of each group from a glossary available within the system.
 - b) **Free Text Fields:** descriptions of the taxa will be included in a text box not-controlled with a large limit for character number.
- ✓ The system as a whole was built in three languages: Portuguese, English and Spanish. Each author will be able to select the language for their monography.
- ✓ The controlled fields will be shown in all three languages but the free text fields will be only present in the language chosen by each author to include his/her text (identification keys, descriptions, and comments).
- ✓ We strongly recommend that the filling of the free text fields follow the same language used for the controlled fields, but we remind you that this information may also be included in any of the three languages.
- ✓ Drawings and photos may be included to illustrate and to help in the recognition of taxa. The photos and illustrations included in the "*Lista do Brasil*" will be automatically imported, but may be withdrawn by author (s).

Brazilian Flora 2020

2. Accessing the workspace

- ✓ Access <http://reflora.jbrj.gov.br/>
- ✓ Click the “Login” button
- ✓ Click “Forgot your password?”
- ✓ Insert your e-mail and click the “Recover” button to receive an automatic message with your login and password
- ✓ **The e-mail registered in the system is the same one that received the message from the Brazilian Flora 2020**

The screenshot displays the REFLORA website interface. At the top, there is a navigation bar with the REFLORA logo on the left, the text "REFLORA - PLANTAS DO BRASIL: RESGATE HISTÓRICO E HERBÁRIO VIRTUAL PARA O CONHECIMENTO E CONSERVAÇÃO DA FLORA BRASILEIRA" in the center, and a language selector "PT" and a "Login" button on the right. Below the navigation bar is a large white banner with the REFLORA logo centered. The main content area is divided into two panels. The left panel is the login form, featuring the REFLORA logo at the top, a "Login" label, a text input field containing "vitomonteiro", a "Password" label, a password input field with masked characters "...", a "Remember password?" checkbox, a "Log in" button, and a "[Forgot your password?](#)" link. An orange arrow points to the "Log in" button. The right panel is the "Recover Password" form, with the title "Recover Password" and instructions: "Enter the e-mail address registered in the Brazilian Flora 2020 and click Recover. You will receive an automated e-mail with your login and password." Below the instructions is an "Email" label and an empty text input field, followed by a "Recuperar" button. An orange arrow points to the "Recuperar" button. A third orange arrow points to the "Login" button in the top navigation bar.

Brazilian Flora 2020

2. Accessing the workspace

- ✓ After accessing the system you can click on your login (in the upper right corner of the page) to see the options “**Settings**” and “**Change Password**”
- ✓ Click on “**Settings**” to see the tabs “**General Informations**” and “**Permissions**”
- ✓ In the tab “**General Informations**” you can edit your personal data
- ✓ In the tab “**Permissions**” you can see the taxa that you are allowed to edit.

The screenshot displays the REFLORA system interface. On the left is a login form with fields for 'Login' (containing 'vitormonteiro') and 'Password' (with masked characters), a 'Remember password?' checkbox, and a 'Log in' button. An orange arrow points to the 'Log in' button. Below the login form is a link for 'Forget your password?'. The top navigation bar includes the REFLORA logo, 'Flora 2020 - Virtual Herbarium', 'Send Feedback', a language selector 'EN', and the user's name 'vitormonteiro'. A dropdown menu is open under the user name, showing 'Settings', 'Change Password', and 'Exit'. An orange arrow points to the 'Settings' option. The main content area shows 'User Details - Vitor Monteiro' with two tabs: 'General Information' and 'Permissions'. The 'General Information' tab is active, displaying user details: Status: Active, Full Name: Vitor Monteiro, Short Name: Monteiro, V., Permission Level: Researcher, Login: vitormonteiro, E-Mail: vitor.reflora@gmail.com, and Institution: Jardim Botânico do Rio de Janeiro. Below this information are buttons for 'Back', 'Edit User', and 'Filter Updates'. An orange arrow points to the 'Edit User' button. The 'Permissions' tab is also visible, showing a table with columns 'Group/Taxon', 'Profile', and 'Author'. The table contains one entry: 'Machaerium Pers.' with 'Collaborator' as the profile and 'It is author' as the author. Below the table are buttons for 'Back', 'Edit User', and 'Filter Updates'. An orange arrow points to the 'Edit User' button in this section.

REFLORA

Flora 2020 - Virtual Herbarium

Send Feedback EN vitormonteiro

Settings
Change Password
Exit

Login
vitormonteiro
Password
...
 Remember password? **Log in**
[Forget your password?](#)

User Details - Vitor Monteiro

General Information Permissions

Status: Active
Full Name: Vitor Monteiro
Short Name: Monteiro, V.
Permission Level: Researcher
Login: vitormonteiro
E-Mail: vitor.reflora@gmail.com
Institution: Jardim Botânico do Rio de Janeiro

Back Edit User Filter Updates

User Details - Vitor Monteiro

General Information **Permissions**

Group/Taxon	Profile	Author
Machaerium Pers.	Collaborator	It is author

Back Edit User Filter Updates

Brazilian Flora 2020

2. Accessing the workspace

The screenshot shows the website interface for Brazilian Flora 2020. At the top, there is a navigation bar with the 'REFLORA' logo on the left and 'Send Feedback' and user information on the right. A dropdown menu is open under 'Flora 2020', with 'Brazilian Flora' highlighted. An orange callout box with arrows points to this menu item and contains the text: 'In the Flora 2020 menu, click the option "Brazilian Flora" to access the workspace.' Below the navigation bar, the main content area is divided into several sections: 'Novas Imagens no Herbário Virtual', 'Reflora system due to server maintenance', 'Failure to deliver emails!', and 'Last Determinations in Virtual Herbarium'. On the right side, there is a 'Links' section with 'Brazilian Flora' and 'Virtual Herbarium' highlighted. The 'Last Determinations in Virtual Herbarium' section includes a pagination control and a table of determinations.

Flora 2020 ▾ Virtual Herbarium ▾

Send Feedback EN vitormonteiro ▾

Brazilian Flora

- Public Search
- Glossary
- Statistics
- Downloads

Novas Imagens no Herbário Virtual

02/02/2015 Caros colaboradores, nestes últimos dias temos acompanhado de perto o trabalho de muitos de vocês...

30/09/2014

21/02/2014

04/02/2014

Atenção taxonomistas!!! Novas imagens são incluídas periodicamente no Herbário Virtual Reflora e a ú...

Dear users, our system now has a new tool to include field images. On the species and/or infraspecie...

Dear users, the Reflora system will be temporarily unavailable today, between from 1-3 PM (Brasilia)...

[More >](#)

[More >](#)

[More >](#)

[More >](#)

Failure to deliver emails!

21/11/2013

Please check the email you have registered on the system. There are many delivery failures!! If you ...

[More >](#)

Links

- Brazilian Flora**
 - Workspace
 - Public Search
 - Statistics
- Virtual Herbarium**
 - Workspace
 - Public Search

Last Determinations in Virtual Herbarium

Anterior 1 2 3 4 5 6 7 8 9 10 Próximo

FABACEAE <i>Machaerium isadelphum</i> (E.Mey.) Amshoff	Associate Vouchers on Brazilian List
FABACEAE <i>Machaerium angustifolium</i> Vogel	Associate Vouchers on Brazilian List
FABACEAE <i>Machaerium angustifolium</i> Vogel	Associate Vouchers on Brazilian List
FABACEAE <i>Machaerium isadelphum</i> (E.Mey.) Amshoff	Associate Vouchers on Brazilian List

Monteiro, V. updated *Machaerium androvillosum* Filardi & H.C.Lima
FLORA MODULE
29-01-2016 11:43:10

desenvolvedor updated *Apheleandra acutifolia* Nees
FLORA MODULE
25-01-2016 12:44:42

desenvolvedor updated *Apheleandra acutifolia* Nees
FLORA MODULE
25-01-2016 12:08:13

desenvolvedor updated *Apheleandra bahiensis* (Nees) Washh.
FLORA MODULE
25-01-2016 12:07:25

desenvolvedor updated *Acanthura mattogrossensis* Lindau
FLORA MODULE
22-01-2016 04:25:58

desenvolvedor updated *Acanthura mattogrossensis* Lindau
FLORA MODULE
22-01-2016 04:23:26

desenvolvedor updated *Acanthura mattogrossensis* Lindau
FLORA MODULE
22-01-2016 04:23:26

Brazilian Flora 2020

2. Accessing the workspace



Flora 2020 - Virtual Herbarium -

Send Feedback

EN - vitormonteiro -

BRAZILIAN FLORA 2020

Buttons to:

- Hide / show synonyms in the tree
- Hide / show authors in the tree
- Simple or multiple mode navigation in the tree

- All researchers will be able to view all branches of the taxonomic tree, but they will only have access to editing the taxonomic branches under their responsibility.
- From the second login, the start page of the workspace displays the record of the last taxon worked on.

Button "Actions"

- Error Report:** indicates names with inconsistencies, such as synonyms without the indication of the accepted name.
- Taxon statistics:** available up to the hierarchical level of genus.
- Taxon inclusion:** inclusion of new genera from the family record data, inclusion of new species from the genus record data, inclusion of a new infraspecies from the species record data.



Flora 2020 - Virtual Herbarium -

BRAZILIAN FLORA 2020

Machaerium androvillosum Filardi & H.C.Lima

Information Images

Taxonomic Hierarchy

Flora → Angiosperms → Fabaceae Lindl. → *Machaerium* Pers. → *Machaerium androvillosum* Filardi & H.C.Lima

Name Qualifications

Status Accepted Name Qualifier Correct name

"Edit" Button

Edit

Actions

- Error Report
- + Include Taxon
- Organize Images

3. Configuration of controlled fields for a species within a genus



BRAZILIAN FLORA 2020

Pereskia Mill. ■

Edit Actions

	SYNONYMS	AUTHORS	SIMPLE	Search
Flora	110838	104351		
Angiosperms	89444	85401		
Cactaceae Juss.	504	504		
Arrojadoa Britton & Rose	8	8		
Arthrocareus A.Berger	8	8		
Austrocephalocereus Backeb.	0	0		
Brasilicereus Backeb.	2	2		
Brasilopuntia (K.Schum.) A....	2	2		
Brasilopuntia (K.Schum.) A....	1	1		
Buiningia Buxb.	0	0		
Cephalocereus Pfeiff.	1	1		
Cereus Mill.	47	47		
Cipocereus Ritter	8	8		
Cleistocactus Lem.	3	3		
Coleocephalocereus Backeb.	13	13		
Discocactus Pfeiff.	27	27		
Disocactus Lindl.	1	1		
Echinocactus Link & Otto	7	7		
Echinopsis Zucc.	6	6		
Epiphyllopsis A.Berger	2	2		
Epiphyllum Haw.	6	6		
Espostoopsis Buxb.	1	1		
Facheiroa Britton & Rose	6	6		
Frailia Britton & Rose	24	24		
Gymnocalycium Pfeiff. ex Mi...	14	14		
Hariota DC.	2	2		
Harrisia Britton	4	4		
Hatoriá Britton & Rose	8	8		
Hylocereus (A.Berger) Britto...	2	2		
Leocereus Britton & Rose	1	1		
Lepismium Pfeiff.	5	5		
Melocactus Link & Otto	45	45		

Information Identification Key

Taxonomic Hierarchy

FB1632

Flora → Angiosperms → Cactaceae Juss. → *Pereskia* Mill.

Name Qualifications

- Select the genus to be configured in the taxonomic tree.

Is a synonym

homotype *Peireskia* Steud.

Is a synonym of

not informed

Free description

Arbustos, árvores ou trepadeiras com folhas desenvolvidas e aréolas espinoscentes nos ramos mais velhos e no tronco. Aréolas curtamente tomentosas, com espinhos retos ou, se encurvados, pareados, gloquídios ausentes. Inflorescência cimosas, paucifloras ou multifloras, flores muitas vezes surgindo a partir do receptáculo das flores mais velhas. Flores 2-7 cm diâm., periginas ou epiginas; pericarpelo liso ou com tubérculos e aréolas evidentes, escamas suculentas, segmentos do perianto multiseriados, livres, coloridos, ereto-patentes, campanulados ou reflexos, estames numerosos, filetes mais curtos que os segmentos do perianto; ovário 1-locular, com remanescentes dos septos apenas na parte superior, estigma 3-20-lobado, lobos eretos a ereto-patentes. Fruto solitário ou agrupado em infrutescências concrecentes, pinforme, turbinado ou globoso, cicatriz apical ampla ou estreita, às vezes dotada de cerdas, segmentos do perianto e brácteas persistentes ou decíduas, pericarpo fosco ou translúcido, polpa funicular ausente. Sementes poucas a numerosas, 1,8-7,5 mm compr., obovais, lenticulares ou reniformes, negras a castanhas, lisas, brilhantes, com hilo alvo.

Life Form and Substrate

3. Configuration of controlled fields for a species within a genus



BRAZILIAN FLORA 2020

Pereskia Mill. ■

[Edit](#) [Actions](#)

	SYNONYMS	AUTHORS	SIMPLE	Search
Flora	110838	104351		
Angiosperms	89444	85401		
Cactaceae Juss.	504	504		
Arrojadoa Britton & Rose	8	8		
Arthrocareus A.Berger	8	8		
Austrocephalocereus Backeb.	0	0		
Brasilicereus Backeb.	2	2		
Brasilopuntia (K.Schum.) A....	2	2		
Brasilopuntia (K.Schum.) A....	1	1		
Buiningia Buxb.	0	0		
Cephalocereus Pfeiff.	1	1		
Cereus Mill.	42	42		
Cipocereus Ritter	8	8		
Cleistocactus Lem.	3	3		
Coleocephalocereus Backeb.	13	13		
Discocactus Pfeiff.	27	27		
Disocactus Lindl.	1	1		
Echinocactus Link & Otto	7	7		
Echinopsis Zucc.	6	6		
Epiphyllopsis A.Berger	2	2		
Epiphyllum Haw.	6	6		
Espositoopsis Buxb.	1	1		
Facheiroa Britton & Rose	6	6		
Frailia Britton & Rose	24	24		
Gymnocalycium Pfeiff. ex Mi...	14	14		
Hariota DC.	2	2		
Harrisia Britton	4	4		
Hatoriá Britton & Rose	8	8		
Hylocereus (A.Berger) Britto...	2	2		
Leocereus Britton & Rose	1	1		
Lepismium Pfeiff.	5	5		
Melocactus Link & Otto	45	45		

Information Identification Key

Taxonomic Hierarchy

Flora → Angiosperms → Cactaceae Juss. → *Pereskia* Mill.

- After selecting the genus to be worked on, click the "Edit" button.

Name Qualifications

Status Qualifier
Accepted Name not informed

Relevant Synonyms

Has as a synonym

homotype *Peireskia* Steud.

Is a synonym of

not informed

Free description

Arbustos, árvores ou trepadeiras com folhas desenvolvidas e aréolas espinoscentes nos ramos mais velhos e no tronco. Aréolas curtamente tomentosas, com espinhos retos ou, se encurvados, pareados, gloquídios ausentes. Inflorescência cimosas, paucifloras ou multifloras, flores muitas vezes surgindo a partir do receptáculo das flores mais velhas. Flores 2-7 cm diâm., periginas ou epiginas; pericarpelo liso ou com tubérculos e aréolas evidentes, escamas suculentas, segmentos do perianto multiseriados, livres, coloridos, ereto-patentes, campanulados ou reflexos, estames numerosos, filetes mais curtos que os segmentos do perianto; ovário 1-locular, com remanescentes dos septos apenas na parte superior, estigma 3-20-lobado, lobos retos a ereto-patentes. Fruto solitário ou agrupado em infrutescências concrecentes, pinforme, turbinado ou globoso, cicatriz apical ampla ou estreita, às vezes dotada de cerdas, segmentos do perianto e brácteas persistentes ou decíduas, pericarpo fosco ou translúcido, polpa funicular ausente. Sementes poucas a numerosas, 1,8-7,5 mm compr., obovais, lenticulares ou reniformes, negras a castanhas, lisas, brilhantes, com hilo alvo.

Life Form and Substrate

FB1632

3. Configuration of controlled fields for a species within a genus

- The configuration of the controlled fields is mandatory for vascular plants – Angiosperms, Gymnosperms, Ferns and Lycophytes



Pereskia Mill.

Nomenclature, Life Form and Distribution **Morphology**

FB1632

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

- Click on the "Controlled Fields Definition" to set the genus record.

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character	↑ ↓	areole x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	with x spine x paired x recurved x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	with x spine x radial x straight x	Delete State
Character	↑ ↓	habit x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	scandent x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	fruticose x	Delete State

3. Configuration of controlled fields for a species within a genus



Pereskia Mill.

Nomenclature, Life Form and Distribution **Morphology**

FB1632

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

• Minimum and maximum number of characters for the genus configuration.
• These values were determined by the project management committee and only the coordinators can modify them.

Character and Character States +

Character	↑ ↓	areole x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	with x spine x paired x recurved x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	with x spine x radial x straight x	Delete State
Character	↑ ↓	habit x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	scandent x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	fruticose x	Delete State

3.1 Inclusion of a character



Pereskia Mill.

Nomenclature, Life Form and Distribution **Morphology**

FB1632

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

- Click on one of the "main boxes" (Root, Branch, Leaf, Inflorescence, Flower, Fruit, Seed)

- After the expansion of the "main box", click on the button "+" to add a character.

Character and Character States +

Character



areole x



Default

with x spine x paired x recurved x

Delete State



Default

with x spine x radial x straight x

Delete State

Character



habit x

Delete Character

New State



Default

scandent x

Delete State



Default

fruticose x

Delete State

3.2 Selecting terms from the glossary

Pereskia Mill. SAVE CANCEL RETURN

Nomenclature, Life Form and Distribution **Morphology** FB1632

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character	↑ ↓	are	Delete Character	New State
		areolate/areolada/areolada	with x spine x paired x recurved x	Delete State
		areolate/areolado/areolado		Delete State
		areole	with x spine x radial x straight x	Delete State
Character	↑ ↓	habit x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	scandent x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	fruticose x	Delete State

- When you start typing, the system displays glossary terms.
- To select a term you must press the **ENTER** key.

3.3 Combining glossary terms and including numbers

Pereskia Mill. SAVE RETURN

Nomenclature, Life Form and Distribution **Morphology**

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character	↑ ↓	areole x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	with x spine x paired x recurved x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	with x spine x radial x straight x	Delete State
Character	↑ ↓	habit x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	scandent x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	fruticose x	Delete State

- More than one term can be selected to make up either a character or a character state.
- At every term selected the user must press the **ENTER** key.
- Any number can be inserted, just by typing the numeral and pressing **ENTER**.



3.4 Inclusion of character states

Pereskia Mill. SAVE RETURN

Nomenclature, Life Form and Distribution **Morphology** FB1632

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character	↑ ↓	areole x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	with x spine x paired x recurved x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	with x spine x radial x straight x	Delete State
Character	↑ ↓	habit x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	scandent x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	fruticose x	Delete State

• Click on this button to add a character state .



3.4 Inclusion of character states

Pereskia Mill.



Nomenclature, Life Form and Distribution **Morphology**

FB1632

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

• Each character must contain at least **two character states!**

Character and Character States +

Character	↑ ↓	areole x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	with x spine x paired x recurved x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	with x spine x radial x straight x	Delete State
Character	↑ ↓	habit x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	scandent x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	fruticose x	Delete State

3.5 Default option for character states



Pereskia Mill. SAVE RETURN

Nomenclature, Life Form and Distribution **Morphology** FB1632

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character	↑ ↓	areole x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	with x spine x paired x recurved x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	with x spine x radial x straight x	Delete State
Character	↑ ↓	habit x	Delete Character	New State

- When you select the **Default** option, all species of the genus will have this character automatically selected.
- The aim of this type of labelling is to facilitate the completion of the species record.
- So if 90% of the species of a genus have the same character state, when selecting the Default option, the specialist will need to deselect this character state from 10% of the species, thus speeding their work.

3.6 Ordering the terms of the automatic description



Pereskia Mill.



Nomenclature, Life Form and Distribution Morphology

FB1632

All obligatory fields were filled in!

Record Data Controlled Fields Definition

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character	↑ ↓	areole x	Delete Character	New State
	↑ ↓	<input type="checkbox"/> Default	with x spine x paired x recurved x	Delete State
	↑ ↓	<input checked="" type="checkbox"/> Default	with x spine x radial x straight x	Delete State
Character	↑ ↓	habit x	Delete Character	New State
				Delete State
				Delete State

- This button changes the order in which the **character** will appear in the automatically generated description for the species.

3.6 Ordering the terms of the automatic description

Pereskia Mill.



Nomenclature, Life Form and Distribution Morphology

FB1632

All obligatory fields were filled in!

Record Data Controlled Fields Definition

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character



areole x

Delete Character

New State



Default

with x spine x paired x recurved x

Delete State



Default

with x spine x radial x straight x

Delete State

New State

Delete State

Delete State

- These buttons change the order in which the **character state** will appear in the automatically generated description for the species.

3.6 Ordering the terms of the automatic description

Pereskia Mill.



Nomenclature, Life Form and Distribution

Morphology

FB1632

All obligatory fields were filled in!

Record Data

Controlled Fields Definition

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character



areole x

Delete Character

New State



Default

with x spine x paired x recurved x

Delete State



Default

with x spine x radial x straight x

Delete State

Character



habit x



Default

scandent x



Default

fruticose x

Delete State

- Button to remove the **character and all its character states.**

3.6 Ordering the terms of the automatic description



Pereskia Mill.

Nomenclature, Life Form and Distribution **Morphology**

FB1632

All obligatory fields were filled in!

Record Data **Controlled Fields Definition**

The author(s) of monographed group is(are) responsible for the information

Number of Already Defined Characters: 14 (min: 5, max: 20)

Root

Branch

Character and Character States +

Character ↑↓

areole x

Delete Character

New State

↑↓

Default

with x spine x paired x recurved x

Delete State

↑↓

Default

with x spine x radial x straight x

Delete State

Character ↑↓

habit x

↑↓

Default

scandent x

↑↓

Default

fruticose x

Delete State

- Button to remove only the **character state**

4. Record Fill for Genus and/or Family

Pereskia Mill.



Nomenclature, Life Form and Distribution

Morphology

FB1632

All obligatory fields were filled

Record Data

Controlled Fields

The author(s) of monographed group

Keys

Types

Interactive Key Dichotomous Key

Interactive Key

Interactive Key Link

<http://www.wikipedia.org>

Free-text Fields

Comments

Free-text Description

Arbustos, árvores ou trepadeiras com folhas desenvolvidas e aréolas espinescentes nos ramos mais velhos e no tronco. Aréolas curtamente tomentosas, com espinhos retos ou, se encurvados, pareados, gloquídios ausentes. Inflorescência cimosa, paucifloras ou multifloras, flores muitas vezes surgindo a partir do receptáculo das flores mais velhas. Flores 2-7 cm diâm., períginas ou epíginas; pericarpelo liso ou com tubérculos e aréolas evidentes, escamas suculentas, segmentos do perianto multisseriados, livres, coloridos, ereto-patentes, campanulados ou reflexos, estames numerosos, filetes mais curtos que os segmentos do perianto; ovário 1-locular, com remanescentes dos septos apenas na parte superior, estigma 3-20-lobado, lobos eretos a ereto-patentes. Fruto solitário ou agrupado em infrutescências concrecentes, piriforme, turbinado ou globoso, cicatriz apical ampla ou estreita, às vezes dotada de cerdas, segmentos do perianto e brácteas persistentes ou decíduas, pericarpo fosco ou translúcido, polpa funicular ausente. Sementes poucas a

Private Comments

- Click on the "Record Data" to fill out the "Free text fields" of genus and family.
- The descriptions for genus and family will be "Free-text Description" only.

4. Record Fill for Genus and/or Family

Pereskia Mill.

Nomenclature, Life Form and Distribution Morphology

All obligatory fields were filled in!

Record Data Controlled Fields Definition

The author(s) of monographed group is(are) responsible for the information

Keys

Types

Interactive Key Dichotomous Key

Interactive Key

Interactive Key Link

<http://www.wikipedia.org>

Free-text Fields

Comments

Free-text Description

Arbustos, árvores ou trepadeiras com folhas desenvolvidas e aréolas espinescentes nos ramos mais velhos e no tronco. Aréolas curtamente tomentosas, com espinhos retos ou, se encurvados, pareados, gloquídios ausentes. Inflorescência cimosa, paucifloras ou multifloras, flores muitas vezes surgindo a partir do receptáculo das flores mais velhas. Flores 2-7 cm diâm., periginas ou epiginas; pericarpelo liso ou com tubérculos e aréolas evidentes, escamas suculentas, segmentos do perianto multisseriados, livres, coloridos, ereto-patentes, campanulados ou reflexos, estames numerosos, filetes mais curtos que os segmentos do perianto; ovário 1-locular, com remanescentes dos septos apenas na parte superior, estigma 3-20-lobado, lobos eretos a ereto-patentes. Fruto solitário ou agrupado em infrutescências concrecentes, piriforme, turbinado ou globoso, cicatriz apical ampla ou estreita, às vezes dotada de cerdas, segmentos do perianto e brácteas persistentes ou decíduas, pericarpo fosco ou translúcido, polpa funicular ausente. Sementes poucas a

Private Comments

- The genera have the following free text fields:

1. **Interactive Key** – The user must insert a link to their interactive key if using that (either 1 or 2 is mandatory)
2. **Dichotomous Key** – Text box for the user to type or paste your key if using this.
3. **Comments** – Comments related to the genus that will appear on the public page.
4. **Free-text Description** – Text box for the user to type or paste the description.
5. **Private Comments** – Comments that appear only in the work area of the system and that may assist in communication between multi-authored monographs.

5. Record Fill for a Species within a Genus

SYNONYMS AUTHORS SIMPLE Search

Flora	110838	104351
Angiosperms	89444	85401
Cactaceae Juss.	504	504
Pereskia Mill.	10	10
Pereskia aculeata Mill.	1	1
Pereskia aureiflora Ritter	1	1
Pereskia bahiensis Gürke	1	1
Pereskia grandiflora Haw.	1	1
Pereskia grandifolia Haw.	3	3
Pereskia nemorosa Rojas Ac...	1	1
Pereskia sacharosa Griseb.	1	1
Pereskia stanantha Ritter	1	1

Information Identification Key

Taxonomic Hierarchy

Flora → Angiosperms → Cactaceae Juss. → Pereskia Mill.

FB1632

Name Qualifications

Status	Qualifier
Accepted Name	not informed

Relevant Synonyms

hom

Is a

not in

Free description

Arbustos, árvores ou trepadeiras com folhas desenvolvidas e aréolas espinescentes nos ramos mais velhos e no tronco. Aréolas curtamente tomentosas, com espinhos retos ou, se encurvados, pareados, gloquídios ausentes. Inflorescência cimosa, paucifloras ou multifloras, flores muitas vezes surgindo a partir do receptáculo das flores mais velhas. Flores 2-7 cm diâm., periginas ou epíginas, pericarpelo liso ou com tubérculos e aréolas evidentes, escamas suculentas, segmentos do perianto multisseriados, livres, coloridos, ereto-patentes, campanulados ou reflexos, estames numerosos, filetes mais curtos que os segmentos do perianto; ovário 1-locular, com remanescentes dos septos apenas na parte superior, estigma 3-20-lobado, lobos eretos a ereto-patentes. Fruto solitário ou agrupado em infrutescências concrecentes, piriforme, turbinado ou globoso, cicatriz apical ampla ou estreita, às vezes dotada de cerdas, segmentos do perianto e brácteas persistentes ou decíduas, pericarpo fosco ou translúcido, polpa funicular ausente. Sementes poucas a numerosas, 1,8-7,5 mm compr., obovais, lenticulares ou reniformes, negras a castanhas, lisas, brilhantes, com hilo alvo.

Life Form and Substrate

Life Form
Liana/scandent/vine, Shrub, Tree

Substrate
Rupicolous, Terrestrial

Distribution

Native, Is not endemic from Brazil

Phytogeographic Domains
Atlantic Rainforest, Caatinga, Central Brazilian Savanna, Pampa, Pantanal

• Select the species to be filled in the taxonomic tree.

5. Record Fill for a Species within a Genus

REFLORA Flora 2020 Virtual Herbarium Send Feedback EN administrador

BRAZILIAN FLORA 2020 *Pereskia grandifolia* Haw. LC

SYNONYMS AUTHORS SIMPLE Search

Flora	110838	104351
Angiosperms	89444	85401
Cactaceae Juss.	504	504
Pereskia Mill.	10	10
Pereskia aculeata Mill.	1	1
Pereskia aureiflora Ritter	1	1
Pereskia bahiensis Gürke	1	1
Pereskia grandiflora Haw.	1	1
Pereskia grandifolia Haw.	3	3
Pereskia nemorosa Rojas Ac...	1	1
Pereskia sacharosa Griseb.	1	1
Pereskia stenantha Ritter	1	1

Information Identification Key

Taxonomic Hierarchy
Flora → Angiosperms → Cactaceae Juss. → Pereskia Mill. → Pereskia

Name Qualifications
Status: Accepted Name
Qualifier: not informed

Relevant Synonyms
Has as a synonym
homotype *Peireskia grandifolia* Haw.
homotype *Pereskia grandiflora* Haw.
Is a synonym of
not informed

Description with controlled fields
Branch: areole with spine radial straight; habit tree. Leaf: blade lanceolate/elliptic; veins angle acute; succulent not. Inflorescence: cyme multiflorous. Flower: bract floral without hair axillary; colour magenta/violet; filament white; segment of the perianth patent; hair staminodium absent. Fruit: apex of the fruit broad; colour green to yellowish; form pyriform.

Free description
not informed

Sources
Voucher
A. A. M. de Barros, 2322, RB 472136
Taylor, N.P., 24802, K, SPF

FB1636

Edit Actions

- Click on the "Edit" button to fill in the "Controlled Fields" and "Free text Fields" for the species.

5.1 Controlled Fields for Species



- Filling out the controlled fields is mandatory for species of vascular plants - Angiosperms, Gymnosperms, Ferns and Lycophytes.

Pereskia grandifolia Haw.

Nomenclature, Life Form and Distribution

Morphology

FB1636

Generated description

Branch: areole with spine radial straight; **habit tree.** **Leaf:** blade lanceolate/elliptic; **veins** angle acute; **succulent** not. **Inflorescence:** cyme multiflorous. **Flower:** bract floral without hair axillary; colour magenta/violet; **filament** white; **segment of the perianth** patent; **hair staminodium** absent. **Fruit:** apex of the fruit broad; colour green to yellowish; **form** pyriform.

There are issues preventing publication ▲

The author(s) of monographed group is(are) responsible for the information

Keys

Root

Branch

areole

- with spine paired recurved
- with spine radial straight

habit

- scandent
- fruticose
- tree

- Select the character states to describe the species.

Leaf

Inflorescence

Flower

Fruit

Seed

5.1 Controlled Fields for Species



Pereskia grandifolia Haw.



Nomenclature, Life Form and Distribution Morphology

FB1636

Generated description

Branch: areole with spine radial straight; **habit** tree. **Leaf:** blade lanceolate/elliptic; **veins** angle acute; **succulent** not. **Inflorescence:** cyme multiflorous. **Flower:** bract floral without hair axillary; colour magenta/violet; **filament** white; **segment of the perianth** patent; **hair staminodium** absent. **Fruit:** apex of the fruit broad; colour green to yellowish; **form** pyriform.

There are issues preventing publication ▲

The author(s) of monographed group is(are) responsible for the information

Keys

Root

Branch

areole

- with spine paired recurved
- with spine radial straight

habit

- scandent
- fruticose
- tree

Leaf

Inflorescence

Flower

Fruit

Seed

- As the fields are filled the system will generate automatic description of the species.

5.1 Controlled Fields for Species



Pereskia grandifolia Haw.



Nomenclature, Life Form and Distribution Morphology

FB1636

Generated description

Branch: areole with spine radial straight; **habit** tree. **Leaf:** blade lanceolate/elliptic; **veins** angle acute; **succulent** not. **Inflorescence:** cyme multiflorous. **Flower:** bract floral without hair axillary; colour magenta/violet; **filament** white; **segment of the perianth** patent; **hair** staminodium absent. **Fruit:** apex of the fruit broad; colour green to yellowish; **form** pyriform.

There are issues preventing publication ▲

The author(s) of monographed group is not available for the information

Keys

Root

Branch

areole

- with spine paired recurved
- with spine radial straight

habit

- scandent
- fruticose
- tree

Leaf

Inflorescence

Flower

Fruit

Seed

- While there are characters still without a selected character state the system will not allow the data of the tab "Morphology" to be published in the public page.
- If the selection of the controlled fields of one species is identical to the one of a previously filled species, the system informs you that "**There are issues preventing publication**".
- In this case the user will have to modify the completion for one of the conflicting species or will have to inform in the "Free text Description" a feature that distinguishes this species from the other.

5.1 Controlled Fields for Species



Pereskia grandifolia Haw.



Nomenclature, Life Form and Distribution **Morphology**

FB1636

Generated description

Branch: areole with spine radial straight; **habit** tree. **Leaf:** blade lanceolate/elliptic; **veins** angle acute; **succulent** not. **Inflorescence:** cyme multiflorous. **Flower:** bract floral without hair axillary; colour magenta/violet; **filament** white; **segment of the perianth** patent; **hair staminodium** absent. **Fruit:** apex of the fruit broad; colour green to yellowish; **form** pyriform.

All obligatory fields were filled in!

The author(s) of monographed group is(are) re

Keys

Root

Branch

Leaf

Inflorescence

Flower

Fruit

Seed

Free-text Fields

- After filling out all the required fields and solving possible problems the system releases the data of the tab "**Morphology**" to be published in the public page.

5.1 Controlled Fields for Species



Pereskia grandifolia Haw.



Nomenclature, Life Form and Distribution

Morphology

FB1636

Generated description

Branch: areole with spine radial straight; **habit** tree. **Leaf:** blade lanceolate/elliptic; **veins** angle acute; **succulent** not. **Inflorescence:** cyme multiflorous. **Flower:** bract floral without hair axillary; **colour** magenta/violet; **filament** white; **segment of the perianth** patent; **hair staminodium** absent. **Fruit:** apex of the fruit broad; **colour** green to yellowish; **form** pyriform.

All obligatory fields were filled in!

The author(s) of monographed group is(are) responsible for the information

Keys

Root

Branch

Leaf

Inflorescence

Flower

Fruit

Seed

Free-text Fields

- After any change in the species record, the system requires the user to confirm responsibility for the information.

5.1 Controlled Fields for Species



SYNONYMS AUTHORS SIMPLE Search

Flora	110838	104351
Angiosperms	89444	85401
Cactaceae Juss.	504	504
<i>Pereskia</i> Mill.	10	10
<i>Pereskia aculeata</i> Mill.	1	1
<i>Pereskia aureiflora</i> Ritter	1	1
<i>Pereskia bahiensis</i> Gürke	1	1
<i>Pereskia grandiflora</i> Haw.	1	1
<i>Pereskia grandifolia</i> Haw.	3	3
<i>Pereskia nemorosa</i> Rojas Ac...	1	1
<i>Pereskia sacharosa</i> Griseb.	1	1
<i>Pereskia stanantha</i> Ritter	1	1

Information Identification Key

Taxonomic Hierarchy FB1636

Flora → Angiosperms → Cactaceae Juss. → *Pereskia* Mill. → *Pereskia grandifolia* Haw.

Name Qualifications

Status	Qualifier
Accepted Name	not informed

Relevant Synonyms

Has as a synonym

homotype *Peireskia grandifolia* Haw.
homotype *Pereskia grandiflora* Haw.

Is a synonym of

not informed

Description with controlled fields

Branch: areole with spine radial straight; habit tree. Leaf: blade lanceolate/elliptic; veins angle acute; succulent not. Inflorescence: cyme multiflorous. Flower: bract floral without hair axillary; colour magenta/violet, filament white; segment of the perianth patent; hair staminodium absent. Fruit: apex of the fruit broad; colour green to yellowish; form pyriform.


Free description

not informed

Sources

Voucher

Taylor, N.P., 24802, [SPF, K](#)
A. A. M. de Barros, 2322; [RB 472136](#)



Reference

Rev. pl. succ., 85, 1819.

• After the "Controlled Fields" are complete, the system generates an automatic description of the species, which appears in the same place that displays information about nomenclature, life form, and distribution.



5.2 Free Text Fields for Species

Pereskia grandifolia Haw.

Nomenclature, Life Form and Distribution | **Morphology**

Generated description

Branch: areole with spine radial straight; **habit** tree. **Leaf:** blade lanceolate/elliptic; **veins** angle acute; **segment of the perianth** patent; **hair** staminodium absent. **Fruit:** apex of the fruit broad; colour green

All obligatory fields were filled in!

The author(s) of monographed group is(are) responsible for the information

Keys

Type of Key

Interactive Key Dichotomous Key

Dichotomous Key

B **I** **U** **A** [List icons]

1. Brácteas receptaculares arroxeadas, segmentos externos do perianto violáceos a rosa-magenta, s...

1'. Brácteas receptaculares verdes, segmentos externos do perianto verde-rosados, segmentos internos...

Root

Branch

Leaf

Inflorescence

Flower

Fruit

Seed

Free-text Fields

- The species have the following free text fields:
 1. **Interactive Key** – The user can insert a link to their interactive key if there are infraspecific taxa
 2. **Dichotomous Key** – Text box for the user to type or paste key if there are infraspecific taxa
 3. **Comments** – Comments related to the species that will appear on the public page.
 4. **Free-text Description** – Text box for the user to type or paste a description or to differentiate between similar species
 5. **Private Comments** – Comments that appear only in the system work area and which may assist in communication between those responsible for multi-authored monographs.

• Click on "**Free text Fields**" to see the other options (Comments and Description).

5.2 Free Text Fields for Species



Pereskia grandifolia Haw.



Nomenclature, Life Form and Distribution **Morphology**

FB1636

Generated description

Branch: areole with spine radial straight; **habit** tree. **Leaf:** blade lanceolate/elliptic; **veins** angle acute; **succulent** not. **Inflorescence:** cyme multiflorous. **Flower:** bract floral without hair axillary; **colour** magenta/violet; **filament** white; **segment of the perianth** patent; **hair staminodium** absent. **Fruit:** apex of the fruit broad; **colour** green to yellowish; **form** pyriform.

All obligatory fields were filled in!

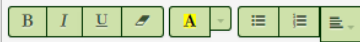
The author(s) of monographed group is(are) responsible for the information

Keys

Type of Key

Interactive Key Dichotomous Key

Dichotomous Key



1. Brácteas receptaculares arroxeadas, segmentos externos do perianto violáceo
1'. Brácteas receptaculares verdes, segmentos externos do perianto verde-rosado

Key field

- This field is only available for species with infraspecific taxa
- The user may choose to complete the **Interactive Key OR Dichotomous Key**.

Root

Branch

Leaf

Inflorescence

Flower

Fruit

Seed

Free-text Fields

5.2 Free Text Fields for Species

Pereskia grandifolia Haw.



Nomenclature, Life Form and Distribution **Morphology**

FB1636

Generated description

Branch: areole with spine radial straight; **habit** tree. **Leaf: blade** lanceolate/elliptic; **veins** angle acute; **succulent** not. **Inflorescence:** cyme multiflorous. **Flower:** bract floral without hair axillary; **colour** magenta/violet; **filament** white; **segment of the perianth** patent; **hair staminodium** absent. **Fruit:** apex of the fruit broad; **colour** green to yellowish; **form** pyriform.

All obligatory fields were filled in!

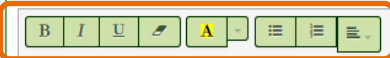
The author(s) of monographed group is(are) responsible for the information

Keys

Type of Key

Interactive Key Dichotomous Key

Dichotomous Key



- Text formatting tool for **Dichotomous Key**.

1. Brácteas receptaculares arroxeadas, segmentos externos do perianto violáceos a rosa-magenta, segmentos internos do perianto 10-18 mm compr.... P. grandifolia subsp. violacea
- 1'. Brácteas receptaculares verdes, segmentos externos do perianto verde-rosados, segmentos internos do perianto 15-33 mm compr.... P. grandifolia subsp. grandifolia

Root

Branch

Leaf

Inflorescence

Flower

Fruit

Seed

Free-text Fields

5.2 Free Text Fields for Species



Pereskia grandifolia Haw.



Nomenclature, Life Form and Distribution **Morphology**

FB1636

Generated description

Branch: areole with spine radial straight; **habit** tree. **Leaf:** blade lanceolate/elliptic; **veins** angle acute; **succulent** not. **Inflorescence:** cyme multiflorous. **Flower:** bract floral without hair axillary; **colour** magenta/violet; **filament** white; **segment of the perianth** patent; **hair staminodium** absent. **Fruit:** apex of the fruit broad; **colour** green to yellowish; **form** pyriform.

There are issues preventing publication

The author(s) of monographed group is(are) respon

Keys

Type of Key

Interactive Key Autonomous Key

Interactive Key

Interactive Key Link

Root

Branch

Leaf

Inflorescence

Flower

Fruit

Seed

Free-text Fields

- Option for **Interactive Key**.
- The user must inform the link where the interactive key is found.

6. Algae, Bryophytes and Fungi



BRAZILIAN FLORA 2020

Acanthoceras zachariasii (Brun) Simonsen NE

Edit Actions

SYNONYMS	AUTHORS	SAMPLE
Flora	110838	104351
Algae	8378	8242
Bacillariophyceae Haeckel	2281	2215
<i>Acanthoceras</i> Honigm.	1	1
<i>Acanthoceras zachariasii</i>	1	1

Information

Taxonomic Hierarchy
Flora → Algae → Bacillariophyceae Haeckel → *Acanthoceras* Honigm. → *Acanthoceras zachariasii* (Brun) Simonsen

Name Qualifications
Status: Accepted Name
Qualifier: not informed

Relevant Synonyms
Has as a synonym: not informed
Is a synonym of: not informed

Life Form and Substrate
Life Form: Aquatic-Plankton
Substrate: not informed

Sources
Voucher: s.c., s.n., UPCB 68884, (PR)

• Algae, Bryophytes and Fungi do not have "Controlled Fields", therefore for them the "Free Text Description" IS MANDATORY.

6. Algae, Bryophytes and Fungi

Acanthoceras zachariasii (Brun) Simonsen



Nomenclature, Life Form and Distribution

Morphology

Generated description

There are issues preventing publication

The author(s) of monographed group is(are) responsible for the information

Free-text Fields

Comments

Free-text Description

Private Comments

- Algae, Bryophytes and Fungi have the following free text fields:

- Interactive Key** – The user must insert a link to their interactive key if using this (either 1 or 2 is mandatory).
- Dichotomous Key** – Text box for the user to type or paste key if using that
- Comments** – Comments related to taxa that will appear on the public page.
- Free-text Description** – Text box for the user to type or paste your description.
- Private Comments** – Comments that appear only in the working area of the system and which may assist in communication between those responsible for monographs.

7. See List of Glossary Terms

Flora 2020 Virtual Herbarium

Send Feedback EN

Glossary Management

- List Term
- List Color

List of Terms

Search: Refresh

Portuguese	English	Spanish
Organização	Organization	
abaxial	abaxial	
abreviado	abbreviated	
aborto	abort	
abortiva	abortive	abortiva
abortivo	abortive	abortivo
acima	above	arriba
abrupta	abrupt	abrupta
abrupto	abrupt	abrupto

Field to search terms

- All users can view the list of terms.

- Field to search terms

- The glossary of terms was based on different sources attempting to cover the greatest possible diversity of botanical terms for the different groups. Other nouns, adjectives, adverbs and prepositions pertinent to short descriptions of plants found in the botanical literature were also included.
- If it is necessary, the registration of new terms may be made by system administration.

8. See List of Glossary Colors



Flora 2020 ▾ Virtual Herbarium ▾

Glossary Management ▾

Characters List

Brazilian Flora

Public Search

Downloads ▾

List Term

List Color

List of Colors

List of Colors

Search:

Refresh

▲ Portuguese

acastanhada

acastanhado

acinzentada

acinzentado

amarela

amarelada

amarelado

amarelo

âmbar

atrocastanha

English

brownish

brownish

greyish

greyish

yellow

yellowish

yellowish

yellow

amber

atrocastaneous

Spanish

acastañada

acastañado

grisácea

grisáceo

amarilla

amarillenta

amarillento

amarillo

ambar

atrocastaña

- All users can view the list of colours.
- Colours were simplified to avoid ambiguity or nearly synonymous terms (pink/pinkish/rose).

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.1. Nomenclature

Machaerium androvillosum Filardi & H.C.Lima

Nomenclature, Life Form and Distribution

Morphology

Hierarchy

Flora → Angiosperms → Fabaceae Lindl. → Machaerium Pers. → Machaerium androvillosum Filardi & H.C.Lima

Taxon name

Genus Species Author
Machaerium androvillosum Filardi & H.C.Lima

Name Qualifications

Status Qualifier
Accepted Name Correct name

Confirmation

checked
Not checked
checked

- A record "Checked" will be available for publication.
- A record "Not checked" will not be available for publication and the taxon name will appear in red in the taxonomic tree and in the taxon record data.
- An extensive survey on all floras published for Brazil (*Flora brasiliensis*, *Flora Catarinense*, etc.) was carried out, and for this reason, the taxonomic tree has many names marked as "Not checked" and these must be prioritized by the specialists.

Nomenclature, Life Form and Distribution

Morphology

Hierarchy

Flora → Angiosperms → Fabaceae Lindl. → Machaerium Pers.

Taxon name

Genus Species Author
Machaerium androvillosum Filardi & H.

Name Qualifications

Status Qualifier
Accepted Name
Accepted Name
Synonym
Correct name

Name Qualifications:

- **Status "Empty"** - names with nomenclatural problems that appear in purple in the taxonomic tree and in the record data. In this case, the "Qualifier" field must be filled.
- **Status "Accepted Name"** – will appear in green in the taxonomic tree and in the record data.
- **Status "Synonym"** – will appear in grey in the taxonomic tree and in the record data. In this case it will be necessary indicate the accepted name in synonymy relationship (see "Relevant Synonyms")
- The options in the "Qualifier" field are specific for each "Status" options.

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.1. Nomenclature

Machaerium androvillosum Filardi & H.C.Lima

Nomenclature, Life Form and Distribution Morphology

Hierarchy

Flora → Angiosperms → Fabaceae Lindl. → Machaerium Pers. →

Taxon name

Genus Species
Machaerium androvillosum Filardi & H.C.L.

Name Qualifications

Status Qualifier
Accepted Name Correct name

- **Name with Status = Synonyms**

It will be necessary indicate the accepted name in the field “**Relevant Synonyms**”

- **Name with Status = Accepted Name**

It is possible to indicate synonyms in the field “**Relevant Synonyms**”

- **Name with Status = Empty**

It is not possible to indicate a accepted name or a synonym in the field “**Relevant Synonyms**”

source

Voucher + ⊕

- Click the button “+” to include a name and “-” to exclude a name
- It is possible to indicate the type of synonym: basionym, homotype, and heterotype
- Click on the magnifying glass icon to search for the desired name

Reset original publication

Relevant Synonyms + ⊕

- Has as a Synonym ▼
basionym
homotype
heterotypic

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution” 9.2. Voucher Inclusion

- Click the button “+” to include a voucher and on “-” to exclude a voucher

- Click the button “+” to add duplicates for a voucher and “-” to exclude duplicates

Collector	S.C. Number	S.N.	Herbarium	Tombo	Barcode	Images Names	Image Source	State	Typus
Pohl, J. B. E.	s.n.		NY		NY00016209				
			W						
			K						

- The field “Herbarium” uses the *Index Herbariorum* as dictionary. Only the system administrator can add other acronyms

Field to select the State where the material was collected

Field to indicate if the material is a nomenclatural type

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution” 9.3. Associating images of specimens

Machaerium brasiliense Vogel

Nomenclature, Life Form and Distribution Morphology

Hierarchy

Flora → Angiosperms → Fabaceae Lindl. → Machaerium Pers. → Machaerium brasiliense Vogel

Taxon name

Genus Species Author
Machaerium brasiliense Vogel

Name Qualifications

Status Qualifier
Accepted Name Correct name

virtual Herbarium Images

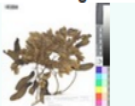


First << 1 2 3 4 5 >> Last

Show 10 entries

Search

Image link

Information

	FURB01746() <i>Machaerium triste</i> Vogel G. Hatschbach 61411
	FURB01747() <i>Machaerium vestitum</i> Vogel A.L. de Gasper 322
	FURB03814() <i>Machaerium brasiliense</i> Vogel A. Uhlmann 340

Add Selected

- Clicking the "camera" icon the user will see **exsiccatae images** available for association in the field "**Voucher**"
- The system will display images of both accepted name and synonyms, as indicated by the expert, for the species or infraspecies.

Images Names Image Source State Typus

09 INCT

- The user can search images by the collector's name, collection number and barcode
- After selecting the specimens the user must click on "**Add selected**"
- All information relating to specimens will be automatically included in the field "**Voucher**"

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.4. Reference and Association of Images from *Flora brasiliensis*

To include images from the Flora Brasiliensis (boards and texts) paste the barcode manually and complete the field Volume/Page as follows:

barcode = P15P1N0069:

P15 = Volume 15

P1 = Number 1

N0069= Board 69

Do not forget to complete the fields **Author**, **Publication** and **Year**.

Taxon name

Genus: Machaerium Species: brasiliense Author: Vogel Confirm checked

Name Qualifications

Status: Accepted Name Qualifier: Correct name

Source

Barcode: NY00016

Barcode	Images Names	Image Source	State	Typus
			AL	

Reference

Author	Publication	Volume/Page	Year	Barcode	Original publication
Vogel, T.H.	Linnaea	11: 185	1837		
Bentham, G.	Flora Brasiliensis	vol.15, part.1, tab.74	1862	P15P1N0074	

Reset original publication

- It is expected that the user include in this field the **original work** in which the given name was published.

- The “camera” icon works on the same way in the fields “Voucher” and “Reference”
- HOWEVER, the field "Reference" should only include illustrations and text images from the *Flora brasiliensis* (see the explanations above and the example below)

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.5. Life Form and Substrate

- The options for the fields “Life Form” and “Substrate” are specific for each major group

Life form and Substrate

Life forms

- Bamboo
- Dracenoíde
- Herb
- Liana/scandent/vine
- Palm
- Shrub
- Subshrub
- Succulent
- Tree
- Unknown

Substrate

- Aquatic
- Epiphytic
- Hemiepiphytes
- Hemiparasites
- Parasite
- Rupicolous
- Saprophyte
- Terrestrial
- Unknown

Angiosperms and Gymnosperms

Life form and Substrate

Life forms

- Herb
- Liana/scandent/vine
- Shrub
- Subshrub
- Tree
- Unknown

Substrate

- Aquatic
- Epiphytic
- Hemiepiphytes
- Hemiparasites
- Parasite
- Rupicolous
- Saprophyte
- Terrestrial
- Unknown

Ferns and Lycophytes

Life form and Substrate

Life forms

- Parasite
- Saprobe
- Symbiont
- Unknown

Substrate

- Aerial litter
- Decaying wood
- Leaf litter
- Living plant - fruit
- Living plant - inflorescence
- Living plant - leaf
- Living plant - root
- Living plant - stem cortex
- Rock
- Sand
- Soil
- Water
- Unknown

Fungi

Host

Host unknown

Animals hosts + ⊕

Plant hosts and/or Fungi + ⊕

	Taxon name	Author
-	Echinochloa	P.Beauv.
-	Panicum	L.

Life form and Substrate

Life forms

- Cushion
- Dendroid
- Flabellate
- foliose
- Mat
- Pendant
- Thallose
- Tuft
- Weft
- Unknown

Substrate

- Corticolous
- Epiphyllous
- Epiphytic
- Epixilous
- Rupicolous
- Saxicolous
- Terrestrial
- Unknown

Bryophytes

Life form and Substrate

Life forms

- Aquatic-Benthos
- Aquatic-Neuston
- Aquatic-Plankton

Substrate

- Edaphic
- Parasite
- Subaerial
- Symbiont (including lichenes)

Algae

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.6. Distribution

Distribution

Occurs in Brazil?
 Yes No Unknown

Endemic to Brazil?
 Yes No Unknown

Phylogeographic Domains

- Amazon Rainforest
- Caatinga
- Central Brazilian Savanna
- Atlantic Rainforest
- Pampa
- Pantanal

Origin

- Native
- Naturalized
- Cultivated

Geographic Distribution

North

- AC
- AM
- AP
- PA
- RO
- RR
- TO

Northeast

- AL
- BA
- CE
- MA
- PB
- PE
- PI
- RN
- SE

Midwest

- DF
- MT
- MS
- GO

Southeast

- RJ
- SP
- MG
- ES

South

- RS
- SC
- PR

Legend: + SpeciesLink + Reflorea Virtual Herbarium
See more information about the collecting points

Vegetation Types

Unknown

- Amazonian Campinerana
- Anthropoc area
- Caatinga (stricto sensu)
- Cerrado (lato sensu)
- Flooded Field (Várzea)
- High Altitude Grassland
- Inundated Forest (Igapó)
- Mangrove
- Ombrophylous Forest (Tropical Rain Forest)
- Riverine Forest and/or Gallery Forest
- Seasonal Evergreen Forest
- Seasonally Semideciduous Forest
- Amazonian Savanna
- Aquatic vegetation
- Carrasco Vegetation
- Coastal Forest (Restinga)
- Grassland
- Highland Rocky Field
- Inundated Forest (Várzea)
- Mixed Ombrophylous Forest
- Palm Grove
- Rock outcrop vegetation
- Seasonally Deciduous Forest
- Terra Firme Forest

- The “**Distribution**” field is divided into six other fields: “**Occurs in Brazil?**” “**Endemic to Brazil?**” “**Phylogeographic Domains**”, “**Origin**”, “**Geographical Distribution**” and “**Vegetation Types**”
- Information about distribution are included by specialists only for **species and infraspecies**
- Information on distribution shown for the genera and families represents the sum of what was included by specialists for the species and infraspecies
- All other distribution fields are hidden if the user chooses the options “**No**” or “**Unknown**” for the field “**Occurs in Brazil?**”
- All distribution fields are hidden for names with **synonyms or empty status**

Brazilian Flora 2020

9. Edition of the Tab "Nomenclature, Life Form and Distribution"

9.6. Distribution

Distribution

Occurs in Brazil?
 Yes No Unknown

Endemic to Brazil?
 Yes No Unknown

Geographic Distribution

North
 AC
 AM
 AP
 PA
 RO
 RR
 TO

Northeast
 AL
 BA
 CE
 MA
 PB
 PE
 PI
 RN
 SE

Midwest
 DF
 MT
 MS
 GO

Southeast
 RJ
 SP
 MG
 ES

Phylogeographic Domains ⓘ
 Amazon Rainforest
 Caatinga
 Central Brazilian Savanna
 Atlantic Rainforest
 Pampa
 Pantanal

Origin
 Native
 Naturalized
 Cultivated

help ⓘ

Phylogeographic Domains

Amazon rainforest

Found in northern and central-western Brazil, and comprising a great variety of vegetation forms, of which the flooded and tall "terra firme" lowland forest predominate (Ter Steege et al. 2003). Covers 49.3% of the Brazilian territory, extending well beyond Brazil through to Bolivia, Peru, Ecuador, Colombia, Venezuela, and the Guianas (Kress et al. 1998).

Caatinga

Xerophilous thorny forest and scrub of the drylands of northeastern Brazil. Covers 9.9% of the Brazilian territory, exclusively Brazilian (Andrade-Lima 1981).

help ⓘ

Caatinga (stricto sensu)

Xerophitic type of savanna occurring within the semi-arid climate region of Northeastern Brazil. Is a type of sparse vegetation that covers massifs and plateaus where rivers are mostly seasonal. Amongst the more frequent plant families are the Leguminosae, Asteraceae, Cactaceae Euphorbiaceae and Malpighiaceae.

Vegetation Types

Unknown

<input type="checkbox"/> Amazonian Campinarana ⓘ	<input type="checkbox"/> Amazonian Savanna ⓘ
<input checked="" type="checkbox"/> Anthropic area ⓘ	<input type="checkbox"/> Aquatic ⓘ
<input checked="" type="checkbox"/> Caatinga (stricto sensu) ⓘ	<input type="checkbox"/> Carrasco Vegetation ⓘ
<input checked="" type="checkbox"/> Cerrado (lato sensu) ⓘ	<input type="checkbox"/> Coastal Forest (Restinga) ⓘ
<input type="checkbox"/> Flooded Field (Várzea) ⓘ	<input type="checkbox"/> Grassland ⓘ
<input type="checkbox"/> High Altitude Grassland ⓘ	<input type="checkbox"/> Highland Rocky Field ⓘ
<input type="checkbox"/> Inundated Forest (Igapó) ⓘ	<input type="checkbox"/> Inundated Forest (Várzea) ⓘ
<input type="checkbox"/> Mangrove ⓘ	<input type="checkbox"/> Mixed Ombrophylous Forest ⓘ
<input checked="" type="checkbox"/> Ombrophylous Forest (Tropical Rain Forest) ⓘ	<input type="checkbox"/> Palm Grove ⓘ
<input checked="" type="checkbox"/> Riverine Forest and/or Gallery Forest ⓘ	<input type="checkbox"/> Rock outcrop vegetation ⓘ
<input checked="" type="checkbox"/> Seasonal Evergreen Forest ⓘ	<input type="checkbox"/> Seasonally Deciduous Forest ⓘ
<input checked="" type="checkbox"/> Seasonally Semideciduous Forest ⓘ	<input type="checkbox"/> Terra Firme Forest ⓘ

Close

By clicking on the icons "?" of the fields "Phylogeographic Domains" and "Vegetation Types" the user views the descriptions elaborated by members of the management committee for the six Domains and the 24 vegetation types adopted.

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.6. Distribution

Geographic Distribution

- If the user marks the checkbox beside a Region, all the states of this Region will appear in colour on the map
- To mark specific states of a region, the user must click the check box next to the acronym of the State.
- **Clicking one time in the check box**, the map will be filled with specific colours: green for North Region, yellow for Midwest, orange for Northeast, red for Southeast, and blue for the South Region.
- **Clicking 2 times on the checkbox** it will be marked with the "?" indicating **uncertainty in occurrence**. In this case, State (s) or Region (s) will be colored gray on the map.
- By hovering over the occurrence points marked on the map (coming from the Reflora Virtual Herbarium and INCT records), the user will see the taxon name, abbreviation of the herbarium, and coordinates.
- By clicking **“See more information about the collecting points”** the user will have access to a table with all the information related to these records. This table can be exported to Excel, CSV and PDF.

Distribution

Occurs in Brazil? Yes No Unknown

Endemic to Brazil? Yes No Unknown

Phytogeographic Domains

Amazon Rainforest
 Caatinga
 Central Brazilian Savanna
 Atlantic Rainforest
 Pampa
 Pantanal

Origin

Native
 Naturalized
 Cultivated

Geographic Distribution

North AC AM AP PA RO RR TO

Northeast AL BA CE MA PB PE PI RN SE

Midwest DF MT MS GO

Southeast RJ SP MG ES

South RS SC PR

Legend: + SpeciesLink + Reflora Virtual Herbarium
 See more information about the collecting points

Detailed Information of collecting points

Macraeum brasiliense Vogel

Related Synonyms

heterotypic: *Macraeum ciliatum* Benth.
 heterotypic: *Macraeum acutifolium* var. *ciliatum* Benth.
 heterotypic: *Macraeum densicum* Mart. ex Benth.
 heterotypic: *Macraeum brasiliense* var. *densicum* (Mart. ex Benth.) Hoehne
 heterotypic: *Macraeum ensatum* Benth.
 heterotypic: *Macraeum brasiliense* var. *ensatum* (Benth.) Radd
 homotypic: *Macraeum lucidibracteum* C.Presl
 homotypic: *Macraeum brasiliense* Vogel
 heterotypic: *Macraeum vestitum* Vogel

First 1 2 3 4 5 >> Last

Show 10 entries

Num. Cat.	Taxa	Source	Collector	Determiner	State	Municipality	Locality	Latitude	Longitude
	Macraeum brasiliense	Reflora Virtual Herbarium	G. D. Colletta, F. M. Alves		SP	Agudos	Mata ao lado de Fazenda São João do Guarani, Agudos, São Paulo, Estado, Brasil, América do Sul	-22.571	-49.103
	Macraeum brasiliense	Reflora Virtual Herbarium	G. D. Colletta		SP	Pitangueira	Estr. Municipal Pitangueira - Cabralia Paulista, próximo a Faz. São José, Pitangueira, São Paulo, Sudeste, Brasil, América do Sul	-22.4251	-49.1918
	Macraeum brasiliense	SpeciesLink	Cordero, J. Brott, M.L.	Cordero, J.	Paraná	Curtiba	Jardim Botânico Municipal, bosque nativo	-25.4417	-49.2367
	Macraeum brasiliense	SpeciesLink	Cordero, J. Brott, M.L.	Cordero, J.	Paraná	Curtiba	Jardim Botânico Municipal, bosque nativo	-25.4417	-49.2367
	Macraeum brasiliense	SpeciesLink	Cordero, J. Brott, M.L.	Cordero, J.	Paraná	Curtiba	Jardim Botânico Municipal, bosque nativo	-25.4417	-49.2367
	Macraeum brasiliense	SpeciesLink	Cordero, J. Brott, M.L.	Cordero, J.	Paraná	Curtiba	Jardim Botânico Municipal, bosque nativo	-25.4417	-49.2367
	Macraeum brasiliense	SpeciesLink	Cavembo, MG	Cordero, J.	Paraná	Curtiba	Jardim Botânico Municipal, bosque nativo	-25.4417	-49.2367
	Macraeum brasiliense	SpeciesLink	Handro, O		Paraná	Tombas do Oeste	Reserva Biológica das Perobas	-23.8577	-52.7269
	Macraeum brasiliense	SpeciesLink	Handro, O		Paraná	São Paulo	Água Funda, Jardim Botânico	-23.54	-46.63
	Macraeum brasiliense	SpeciesLink	Wanderley, M D G L., Kinawa, M		Paraná	São Paulo	Parque Estadual das Fontes do Ipiranga	-23.54	-46.63

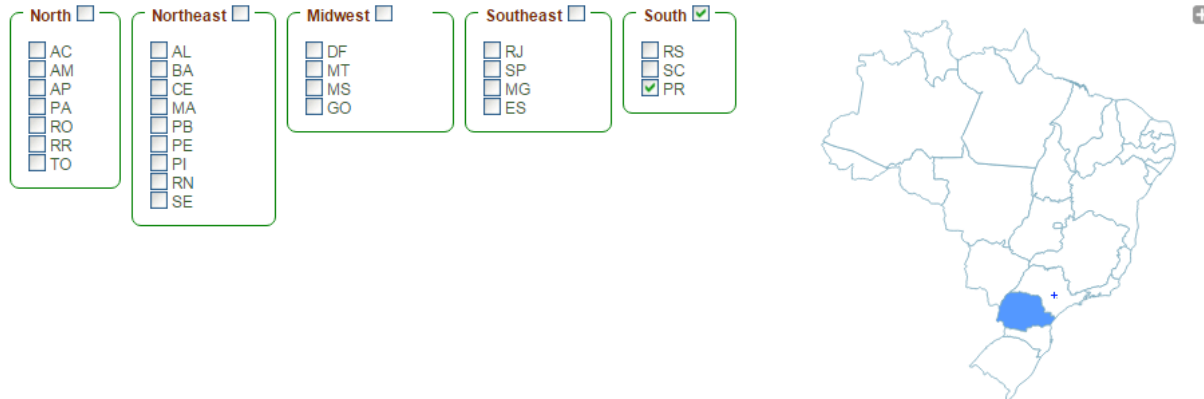
CSV Excel PDF

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.6. Distribution

Geographic Distribution



Caption: [+ Species link](#) [+ Reflora Virtual Herbarium](#)
[See more information about the collecting points](#)

Hydrographic Distribution



Geographic Distribution Algae

- It is possible indicate the distribution by Regions and States - "**Geographical Distribution**" - as well as by Hydrographic Regions - "**Hydrographic Distribution**"
- **The coloring of the maps follows the same principle presented to the other groups.**
- By hovering over the occurrence points marked on the map (coming from the Reflora Virtual Herbarium and INCT records), the user will see the taxon name, abbreviation of the herbarium, and coordinates.
- By clicking "**See more information about the collecting points**" the user will have access to a table with all the information related to these records. This table can be exported to Excel, CSV and PDF.

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.7. Vernacular Name, References and Internal Remarks

The screenshot shows a web-based data entry interface. At the top, there is a section for 'Vernacular Name' with a '+' button to add a name. Below this, there are three input fields: 'Name' containing 'Jacarandá-sangue', 'Region', and 'Language' with a dropdown menu showing 'Portuguese' selected. Below the 'Vernacular Name' section is a 'Reference' section with a text area containing a citation: 'Filardi, F.L.R. & Lima, H.C. 2014. The Diversity of *Machaerium* (Leguminosae: Papilionoideae) in the Atlantic Forest: Three New Species, Nomenclatural Updates, and a Revised Key. Systematic Botany 39 (1): 145-159.' The interface includes a rich text editor with buttons for bold, italic, underline, and strikethrough, as well as font family and size options.

Vernacular Name

- Click on the button “+” to include a name and “-” to exclude a name
- Select a language in the box for the vernacular or common name included.

- In the field “**Reference**” all literature consulted for the preparation of monographs should be included.
- We remind you that the authors must confirm they are responsible for all information included in the monographs and that their participation in the project may be cancelled if problems of ethic and/or plagiarism are detected.

The screenshot shows the 'Internal Remarks' section of the data entry interface. It features a text area with a citation: 'In Flora do Cerrado *Machaerium brasiliense* Vogel [*M. brachylobium* Benth.] J.R.R.Pinto 76 (UFMT) [MT]; (Warming) Semi-Árido Referência: César et al. (2006);'. The interface includes a rich text editor with buttons for bold, italic, underline, and strikethrough, as well as font family and size options.

- The field “**Internal Remarks**” will not be displayed on the public page.
- This field lists the primary sources used for inclusion of names in the system, since the first version of the “*Lista do Brasil*”, for which work platform was launched for specialists in 2009.
- For the present system, an extensive survey on all floras published for Brazil (*Flora brasiliensis*, *Flora Catarinense*, etc.) was carried out and resulted in the inclusion of new names, which are also referenced in this field.

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.8. Inclusion of Field Images and Scientific Illustrations

Machaerium androvillosum Filardi & H.C.Lima NE Edit Actions

Information Images

- Click the “Actions” button and select the option “Organize Images”



Taxonomic Hierarchy
Flora → Angiosperms → Fabaceae Lindl. → *Machaerium* Pers. → *Machaerium androvillosum* Filardi & H.C.Lima

Name Qualifications

Status	Qualifier
Accepted Name	Correct name

Error Report
+ Include Taxon
Organize Images

Machaerium androvillosum Filardi & H.C.Lima See Data Return

Field Image	Description	Option
	Published by: Fabiana Luiza Ranzato Filardi Author: Marcos V. R. Castro Date of inclusion: 24/09/2014 - 20:48:47	Delete
	Published by: Fabiana Luiza Ranzato Filardi Author: Marcos V. R. Castro Date of inclusion: 24/09/2014 - 20:49:45	Delete

- Click on “Send Image”

Name: *Machaerium androvillosum*

Hierarchy: Flora → Angiosperms → Fabaceae Lindl. → *Machaerium*

Author Name:

Image: Escolher arquivo Nenhum arquivo selecionado

*file limit 5MB
*only images with .jpg or .jpeg format

I agree with the [Term of Responsibility](#).

Send Image Return

- This field should include the **name of the author** of photo or illustration if the image author is not same person that is inserting the image
- Up to **7 photos** can be uploaded per species or infraspecies and the files must be in JPEG format and should have a maximum of 5MB
- Do not forget to read the “**Term of Responsibility**” and mark your agreement.

Brazilian Flora 2020

9. Edition of the Tab “Nomenclature, Life Form and Distribution”

9.8. Inclusion of Field Images and Scientific Illustrations

Machaerium androvillosum Filardi & H.C.Lima  

Information **Images**



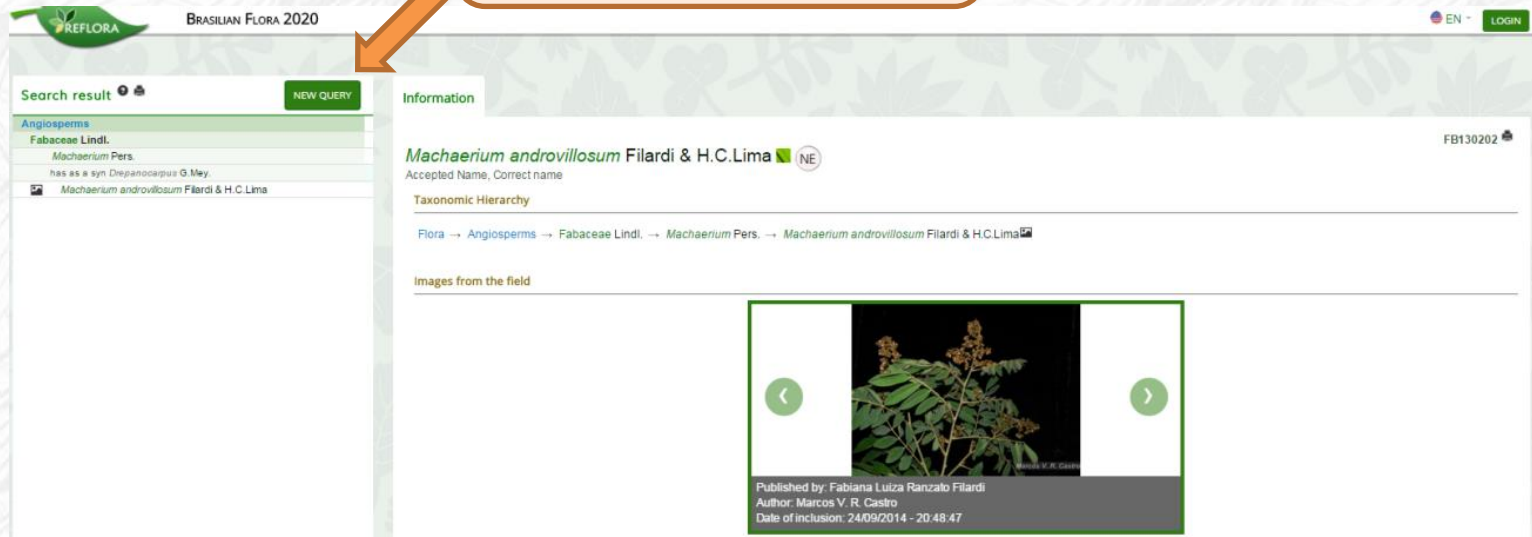
Published by: Fabiana Luiza Ranzato Filardi
Author: Marcos V. R. Castro
Date of inclusion:
24/09/2014 - 20:48:47





Published by: Fabiana Luiza Ranzato Filardi
Author: Marcos V. R. Castro
Date of inclusion:
24/09/2014 - 20:49:45


- The photos and illustrations will be in the tab “Images” in the workspace...

...and will also appear straight away in the **public page** of the system!






BRASILIAN FLORA 2020

Search result   **NEW QUERY**


Angiosperms
Fabaceae Lindl.
Machaerium Pers.
has as a syn Diepanocarpus G. Mey.
 Machaerium androvillosum Filardi & H.C.Lima

Information


Machaerium androvillosum Filardi & H.C.Lima   FB130202 

Accepted Name, Correct name

Taxonomic Hierarchy

Flora → Angiosperms → Fabaceae Lindl. → Machaerium Pers. → *Machaerium androvillosum* Filardi & H.C.Lima 

Images from the field



Published by: Fabiana Luiza Ranzato Filardi
Author: Marcos V. R. Castro
Date of inclusion: 24/09/2014 - 20:48:47



Welcome to Brazilian Flora 2020