Data Article

Ecological data in support of an analysis of Guinea-Bissau’s medicinal flora

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A R T I C L E   I N F O

Article history:
Received 25 February 2016
Received in revised form 18 March 2016
Accepted 22 March 2016
Available online 30 March 2016

Keywords:
West Africa
Ethnobotanical data
Useful plants
Geographical distribution
Vegetation types

A B S T R A C T

This dataset presents an annotated list of medicinal plants used by local communities in Guinea-Bissau (West Africa), in a total of 218 species. Data was gathered by means of herbarium and bibliographic research, as well as fieldwork. Biological and ecological information is provided for each species, including in-country distribution, geographical range, growth form and main vegetation types. The dataset was used to prepare a paper on the medicinal plants of Guinea-Bissau “Medicinal plants of Guinea-Bissau: therapeutic applications, ethnic diversity and knowledge transfer” (Catarino et al., 2016) [1]. The table and figures provide a unique database for Guinea-Bissau in support of ethno-medical and ethno-pharmacological research, and their ecological dimensions.

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DOI of original article: http://dx.doi.org/10.1016/j.jep.2016.02.032
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http://dx.doi.org/10.1016/j.dib.2016.03.077
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### Value of the data

- This dataset is the first comprehensive record of Guinea-Bissau's medicinal flora totalling 218 plant species.
- It includes information on the growth form, vegetation types, in-country distribution, distribution range, plant parts used, and other uses of species besides medicinal.
- Species were recorded for remote and hitherto under-researched areas.
- This dataset can be used as primary source guide for the biological and ecological contexts of ethno-medical research in Guinea-Bissau and West Africa.

### 1. Data

The comprehensive list of plant species used in traditional medicine in Guinea-Bissau is presented in Table 1, focuses on biological and ecological aspects of the original dataset. It identifies medicinal and non-medicinal uses of recorded species, as well as the plant parts used, growth form, main vegetation types and geographical distribution. The dataset was specially prepared for a recent study (see [1]), based upon information gathered during fieldwork performed in the country, from 1990s to the present, by the authors, complemented with data from herbarium vouchers (LISC Herbarium, University of Lisbon) as well as from published sources. Samples were collected in various geomorphological areas covering a wide range of vegetation types in Guinea Bissau, inhabited by more than thirty ethnic groups.

### 2. Experimental design, materials and methods

#### 2.1. Study area

Guinea-Bissau is located in the Northern Intertropical Zone of West Africa. It borders on the Republic of Senegal to the North, the Republic of Guinea to the East and South and by the Atlantic Ocean to the West [2]. It covers 36,125 km² and the country encompasses continental mainland (North, South, and Eastern regions) and a group of 40 islands, the Bijagós Archipelago (Fig. 1A).

Four different geo-morphological areas are identified for Guinea Bissau, i.e. the Bijagós Islands covered by palm groves (Fig. 1B) and dry forests surrounded by mangroves; the low-lying, littoral
Table 1
Ecological data related with the Guinea-Bissau’s medicinal flora, with references to other uses of species.

| Species                                      | Family          | Growth form | Habitat types                                      | Distribution Guinea-Bissau | Distribution range                                      | Plant parts used in traditional medicine | Other uses of medicinal plants | Herbarium voucher |
|----------------------------------------------|-----------------|-------------|--------------------------------------------------|-----------------------------|---------------------------------------------------------|------------------------------------------|----------------------------------|-------------------|
| *Abelmoschus esculentus* (L.) Moench.       | Malvaceae       | Herb        | Cultivated                                       | North, South, East, Bijagós| Introduced, Native to Asia                              | Seeds                                    | Food                             | Moreira 284       |
| *Abrus precatorius* L. subsp. *africanus* Verdc. | Fabaceae       | Climber     | Woodland, Savanna Woodland                       | North, South, East, Bijagós| Aerial parts of plant                                    | Aerial parts of plant                  | Roots                            | Indjai 17         |
| *Acacia macrostachya* Rchb. ex DC.         | Fabaceae       | Tree        | Woodland, Savanna Woodland                       | North, South, East, Bijagós| Native to Asia                                          | Roots, Sap                              | Roots, Sap                      | Catarino 1269     |
| *Acridocarpus plagiopterus* Guill. & Perr. | Malpighiaceae  | Shrub       | Forest, Woodland, Palm Grove, Gallery Forest     | North, South, East, Bijagós| Sudanian Region                                         | Leaves                                  | Phytochemical         | Diniz & Gonçalves 1861 |
| *Acridocarpus smeathmannii* (DC.) Guill. & Perr. | Malpighiaceae  | Shrub       | Savanna Woodland, Gallery Forest                  | North                          | Guinea-Congoilan Region                                 | Leaves                                  |                                  | Diniz & Gonçalves 1863 |
| *Adansonia digitata* L.                    | Malvaceae       | Tree        | Savanna Woodland, Cultivated                      | North, South, East, Bijagós   | Guineo-Congolian Region                                  | Leaves                                  | Food                             | Sané 74            |
| *Adenia lobata* (Jacq.) Engl.               | Passifloraceae  | Climber     | Forest, Woodland, Palm Grove, Gallery Forest     | North, South, East, Bijagós   | Guineo-Congolian Region                                  | Roots                                   |                                  | Catarino 1664     |
| *Afraegle paniculata* (Schumach. & Thonn.) Engl. | Rutaceae      | Tree        | Forest, Woodland, Savanna Woodland                | North, South, East, Bijagós   | Guineo-Congolian Region                                  | Roots                                   |                                  | Diniz & Gonçalves 1880 |
| *Aframomum albiovaleceum* (Ridl.) K. Schum. | Zingiberaceae  | Herb        | Woodland, Savanna Woodland                       | South                          | Afrotropical                                            | Roots                                   | Food                             | Catarino 1385     |
| *Aframomum rostratum* K.Schum.              | Zingiberaceae  | Herb        | Woodland, Savanna Woodland                       | North, South, East, Bijagós   | Guineo-Congolian Region                                  | Roots                                   | Food                             | Martins et al. 622 |
| *Afzelia africana* Sm. ex Pers.             | Fabaceae       | Tree        | Woodland, Savanna Woodland, Gallery Forest        | North, South, East, Bijagós   | Sudanian/Guineo Sub-Region                              | Bark                                    | Timber, Handicrafts            | Catarino 495      |
| *Agelaea pentagyna* (Lam.) Baill.           | Connaraceae     | Shrub       | Forest, Gallery Forest                           | South                          | Afrotropical                                            | Leaves                                  |                                  | Catarino 1684     |
| *Albizia adianthifolia* (Schum.) W.Wight    | Fabaceae       | Tree        | Forest, Woodland                                 | North, South, East, Bijagós   | Afrotropical                                            | Leaves                                  |                                  | Catarino 1562     |
| *Alchornea cordifolia* (Schumach. & Thonn.) Müll.Arg. | Euphorbiaceae | Shrub       | Forest, Woodland, Palm Grove, Gallery Forest     | North, South, East, Bijagós   | Afrotropical                                            | Stem, Seeds                             | Phytochemical         | Catarino 1549      |
| Scientific Name                  | Family              | Type        | Habitat                                      | Distribution                          | Product           | Reference          |
|---------------------------------|---------------------|-------------|----------------------------------------------|---------------------------------------|-------------------|--------------------|
| *Allophylus africanus* P.Beauv. | Sapindaceae         | Shrub       | Forest, Woodland, Savanna Woodland, Palm Grove, Gallery Forest, Wet Grass Savanna | North, South, East, Bijagós           | Afrotropical      | Indjai 26          |
| *Alstonia boonei* De Wild.      | Apocynaceae         | Tree        | Woodland, Savanna Woodland, Gallery Forest   | North, South, East, Bijagós           | Sap               | Catarino 738       |
| *Alstonia congensis* Engl.      | Apocynaceae         | Tree        | Forest, Gallery Forest                       | North, South, East, Bijagós           | Bark, Roots       | Catarino 1513A     |
| *Ampelocissus multistriata* (Baker) Planch. | Vitaceae       | Climber    | Savanna Woodland                             | North, South, East, Bijagós           | Leaves            | Martins & Moreira 998 |
| *Anacardium occidentale* L.     | Anacardiaceae       | Tree        | Cultivated                                   | North, South, East, Bijagós           | Leaves, Bark      | Catarino 1922      |
| *Anisophyllea laurina* R.Br. ex Sabine | Anisophylleaceae   | Tree        | Forest                                       | South, Bijagós                        | Leaves            | Catarino 1698      |
| *Annona glabra* L.              | Annonaceae          | Shrub       | Cultivated                                   | North, South, East, Bijagós           | Roots             | Moreira 38         |
| *Annona muricata* L.            | Annonaceae          | Tree        | Cultivated                                   | North, South, East, Bijagós           | Leaves            | Diniz et al. 2595  |
| *Annona senegalensis* Pers.     | Annonaceae          | Shrub       | Savanna Woodland                             | North, South, East, Bijagós           | Roots, Leaves, Flowers | Catarino 1352      |
| *Antherotoma senegambiensis* (Guill. & Perr.) Jacq.-Fél. | Melastomataceae   | Herb        | Woodland, Palm Grove, Wet Grass Savanna      | North, South, East, Bijagós           | Forest            | Martins & Catarino 1258 |
| *Anthocleista djalonensis* A.Chev. | Gentianaceae       | Tree        | Woodland, Savanna Woodland, Palm Grove       | North, South, East, Bijagós           | Bark              | Catarino 1717      |
| *Anthocleista nobilis* G.Don    | Gentianaceae        | Tree        | Woodland, Palm Grove, Gallery Forest         | North, South, East, Bijagós           | Sap, Bark         | Diniz et al. 1014  |
| *Anthostema senegalense* A.Juss. | Euphorbiaceae      | Tree        | Forest, Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós           | Sap, Leaves       | Catarino 1553      |
| *Argemone mexicana* L.          | Papaveraceae        | Herb        | Ruderal                                      | North, South, Bijagós                 | Leaves            | Raimundo & Guerra 913 |
| *Artabotrys velutinus* Scott-Elliot | Annonaceae         | Shrub       | Woodland, Savanna Woodland                   | North, South, East, Bijagós           | Leaves            | Catarino 1085      |
| *Asystasia gangetica* (L.) T.Anderson | Acanthaceae       | Herb        | Woodland, Savanna Woodland, Ruderal          | North, South, East, Bijagós           | Leaves            | Diniz et al. 2337  |
| *Azadirachta indica* A.Juss.    | Meliaceae           | Tree        | Cultivated                                   | North, South, East, Bijagós           | Introduced, Native To India | Bancessi 17       |
| Species                                      | Family          | Growth form | Habitat types                                           | Distribution | Distribution range | Plant parts used in traditional medicine | Other uses of medicinal plants | Herbarium voucher |
|----------------------------------------------|-----------------|-------------|--------------------------------------------------------|--------------|--------------------|------------------------------------------|------------------------------|-----------------|
| *Bauhinia thonningii* Schum. (Syn. *Piliostigma thonningii* (Schumach. & Thonn.) Milne-Redh.) | Fabaceae        | Tree        | Woodland, Savanna Woodland, Palm Grove                 |              | Afro tropical      | Roots, Bark                             | Handicrafts          | Indjai 21       |
| *Blighia sapida* K.D.Koenig                 | Sapindaceae     | Tree        | Woodland, Savanna Woodland                            | North, South, East, Bijagós | Guineo-Congolian Region | Leaves                                 | Food              | Diniz & Gonçalves 1946 |
| *Blighia unijugata* Baker                   | Sapindaceae     | Tree        | Forest, Woodland, Gallery Forest                       | South        | Afro tropical      | Leaves                                 | Food, Handicrafts   | Diniz & Gonçalves 1845 |
| *Blutaparon vermiculare* (L.) Mears         | Amaranthaceae   | Herb        | Mangrove, Ruderal                                     | North, South, East, Bijagós | Amphi-Atlantic      | Whole plant                             |                               | Catarino 650    |
| *Borassus aethiopum* Mart.                  | Arecaceae       | Palm        | Woodland, Savanna Woodland                            | North, South, East, Bijagós | Afro tropical      | Seeds, Roots                            | Food, Timber, Handicrafts | Pereira 1058   |
| *Bridelia micrantha* (Hochst.) Baill.       | Phyllanthaceae  | Tree        | Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós | Afro tropical      | Roots, Leaves                          | Food, Phytochemical   | Indjai 20       |
| *Caesalpinia benthamiana* (Baill.) Herend. & Zarucchi (Syn. *Mezoneuron benthamianum* Baill.) | Fabaceae        | Climber     | Forest, Woodland, Savanna Woodland, Palm Grove        | North, South, East, Bijagós | Guineo-Congolian Region | Sap, Roots, Leaves                      |                               | Catarino 1526   |
| *Calotropis proceraspora* (Atton) Dryand.   | Apocynaceae     | Shrub       | Savanna Woodland, Ruderal                             | North, South, East, Bijagós | Palaeotropical     | Roots                                  |                               | Diniz et al. 658 |
| *Calycobolus heudelotii* (Baker ex Oliv.) Heine | Convolvulaceae  | Climber     | Forest, Woodland, Palm Grove                          | North, South, East, Bijagós | Guineo-Congolian Region | Stem, Leaves                           |                               | Catarino 1713   |
| *Calyptrichillum christyanum* (Rchb. L.) Summerh. | Orchidaceae     | Herb        | Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós | Afro tropical      | Whole plant                            |                               | Indjai 35       |
| *Capparis erythrocarpos* Isert              | Capparaceae     | Shrub       | Woodland, Savanna Woodland, Gallery Forest            | North, South, East, Bijagós | Afrotropical       | Roots                                  |                               | Indjai 12       |
| *Capsicum annuum* L. (Syn. *C. frutescens* L.) | Solanaceae      | Herb        | Cultivated                                             | North, South, East, Bijagós | Introduced, Native to America | Aerial parts of plant                           | Food               | Moreira 62     |
| *Carapa proceraspora* DC.                   | Meliaceae       | Tree        | Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós | Afro Neotropical   | Seeds                                  |                               | Catarino 1566   |
| *Carica papaya* L.                          | Caricaceae      | Tree        | Cultivated                                             | North, South, East, Bijagós | Introduced, Native to America | Leaves, Roots   | Food, Phytochemical                    | Moreira 22       |

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| Species                        | Family       | Life Form | Habitat                          | Location          | Part(s)                  | Notes                      | Author          | Page |
|-------------------------------|--------------|-----------|-----------------------------------|-------------------|--------------------------|-----------------------------|----------------|------|
| *Cassia sieberiana* DC.       | Fabaceae     | Tree      | Woodland, Savanna Woodland, Palm Grove | North, South, East, Bijagós | Sudanian Region            | Rz, Fo                      | Catarino       | 818  |
| *Cassytha filiformis* L.      | Lauraceae    | Herb      | Woodland, Savanna Woodland, Palm Grove | North, South, Bijagós | Afrotropical              | Whole plant                | Indjai          | 10   |
| *Cayratia gracilis* (Guill. & Perr.) Suess. | Vitaceae   | Herb      | Forest, Woodland, Palm Grove       | North, South, Bijagós | Saudian Region            | Sap                        | Vidigal et al. | 151  |
| *Ceiba pentandra* (L.) Gaertn. | Malvaceae    | Tree      | Forest, Woodland, Savanna Woodland | North, South, Bijagós | Afrotropical              | Bark                       | Catarino       | 1710 |
| *Celosia argentea* L.         | Amaranthaceae| Herb      | Ruderual                          | South, East       | Pantropical               | Branches                   | Vidigal et al. | 47   |
| *Chamaecrista absus* (L.) H.S.Irwin & Barneby | Fabaceae     | Herb      | Woodland, Savanna Woodland, Wet Grass Savanna, Ruderual | North, South, East, Bijagós | Paleotropical              | Whole plant                | Diniz & Pinto-Basto | 2404 |
| *Chamaecrista nigricans* (Vahl) Greene | Fabaceae | Herb | Savanna Woodland | North, East | Paleotropical | Whole plant | Catarino | 1215 |
| *Chrozophora senegalensis* (Lam.) A.Juss. ex Spreng. | Euphorbiaceae | Herb | Savanna Woodland | North | Pantropical | Whole plant, Fruits | Catarino | 928  |
| *Cissampelos mucronata* A.Rich. | Menispermaceae | Climber | Woodland, Savanna Woodland, Palm Grove, Wet Grass Savanna | North, South, East, Bijagós | Afrotropical | Roots, Leaves, Stem | Indjai | 11   |
| *Cissus aralioides* (Welw. ex Baker) Planch. | Vitaceae     | Climber   | Forest, Woodland, Savanna Woodland, Wet Grass Savanna | North, South, Bijagós | Pantropical               | Leaves                     | Catarino       | 1413 |
| *Cissus rufescens* Guill. & Perr. | Vitaceae   | Climber   | Woodland, Savanna Woodland, Wet Grass Savanna | South, East, Bijagós | Pantropical               | Leaves                     | Catarino       | 514  |
| *Citrus limon* (L.) Osbeck    | Rutaceae     | Tree      | Cultivated                        | North, South, East, Bijagós | Introduced, Native to Asia, Guineo-Congo Region | Roots, Leaves, Food | Moreira | 67   |
| *Clerodendrum splendens* G.Don | Lamiaceae     | Climber   | Forest, Woodland, Savanna Woodland, Palm Grove | North, South, Bijagós | Guineo-Congo Region Guineo-Congo-Sudano-Zambezian Regions | Roots, Leaves | Catarino | 1483 |
| *Clerodendrum umbellatum* Poir. | Lamiaceae     | Climber   | Forest, Woodland, Savanna Woodland | South | Guineo-Congo Region Guineo-Congo-Sudano-Zambezian Regions | | Dinz et al. | 2572 |
| *Cnestis ferruginea* Vahl ex DC. | Connaraceae  | Shrub     | Forest, Woodland, Palm Grove      | North, South, East, Bijagós | Pantropical               | Roots, Leaves, Fruits, Branches | Indjai | 24   |
| *Cochlospermum tinctorium* Perrier ex A. Rich. | Bixaceae     | Shrub     | Woodland, Savanna Woodland        | North, South, East | Pantropical               | Roots                      | Catarino       | 1180 |
| *Cola cordifolia* (Cav.) R.Br. | Malvaceae    | Tree      | Woodland, Savanna Woodland, Galery Forest | North, South, East | Pantropical               | Seeds, Stem                | Catarino       | 1431 |
| *Phyllanthus vaginatus* L.     | Phyllanthaceae| Shrub     | Savanna Woodland                  | North, South, East | Pantropical               | Seeds, Stem                | Catarino       | 2124 |

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| Species                  | Family          | Growth form | Habitat types                              | Distribution Guinea-Bissau | Distribution range      | Plant parts used in traditional medicine | Other uses of medicinal plants | Herbarium voucher |
|--------------------------|-----------------|-------------|--------------------------------------------|----------------------------|-------------------------|------------------------------------------|-------------------------------|-------------------|
| **Cola nitida** (Vent.) Schott & Endl. | Malvaceae       | Tree        | Cultivated                                 | North, South, East, Bijagós | Guinean Sub-Region         | Seeds                                    | Food                           | Moreira 72        |
| **Combretum adenogonium** Steud. ex A. Rich. | Combretaceae    | Shrub       | Woodland, Savanna                          | North, South, East          | Afro tropical             | Bark                                     |                               | Catarino 1737     |
| **Combretum collinum** Fresen. | Combretaceae    | Shrub       | Woodland, Savanna                          | North, South, East          | Afrotropical             | Roots                                    |                               | Catarino 1453     |
| **Combretum lecardii** Engl. & Diels | Combretaceae    | Shrub       | Woodland, Savanna                          | North, East                | Guinean Sub-Region         | Leaves                                   |                               | Catarino 582      |
| **Combretum micranthum** G.Don | Combretaceae    | Shrub       | Woodland, Savanna Woodland, Gallery Forest, Palm Grove | North, South, East, Bijagós | Sudanian/Guinean Sub-Region | Roots, Leaves                           | Beverages                     | Indjai 08         |
| **Combretum nigricans** Lepr. ex Guill. & Perr. | Combretaceae    | Tree        | Woodland, Savanna                          | North, South, East, Bijagós | Sudanian Region           | Leaves                                   |                               | Catarino 1508     |
| **Conocarpus erectus** L. | Combretaceae    | Shrub       | Mangrove                                   | North, South, East          | Afrotropical             | Leaves                                   |                               | Catarino 326      |
| **Cordyla pinnata** (Lepr. ex A.Rich.) Milne-Redh. | Fabaceae        | Tree        | Woodland, Savanna                          | North, South, East, Bijagós | Neotropical Sudanian Region | Bark                                     | Food                           | Catarino 1741     |
| **Cryptomeria laurinum** (Poir.) Benth. | Rubiaceae       | Shrub       | Forest, Palm Grove, Gallery Forest          | North, South               | Afrotropical             | Bark                                     |                               | Catarino 1719     |
| **Crotalaria febrifuga** (Afzel. ex G.Don) Benth. | Rubiaceae       | Shrub       | Woodland, Savanna                          | North, South, East, Bijagós | Guineo-Congolian Region    | Leaves                                   |                               | Catarino 1725     |
| **Cryptolepis sanguinolenta** (Lindl.) Schltr. | Apocynaceae     | Climber     | Woodland, Gallery Forest                   | North, South, East, Bijagós | Afrotropical             | Roots                                    |                               | Diniz et al. 995   |
| **Curculigo pilosa** (Schumach. & Thonn.) Engl. | Hypoxidaceae    | Herb        | Woodland                                   | North, South, East          | Introduced, Native to India, Sudanian/Zambian Regions | Aerial parts of plant                | Leaves                          | Pinto-Basto et al. 103 |
| **Cymbopogon citratus** (DC.) Stapf | Poaceae         | Herb        | Cultivated, Ruderal                        | North                      | Introduced, Native to India, Sudanian/Zambian Regions | Leaves                                  |                               | Moreira 216       |
| **Dalbergia boehmii** Taub. | Fabaceae        | Tree        | Woodland, Savanna Woodland, Palm Grove      | North, South, East, Bijagós | Sudanian/Zambian Regions  | Leaves                                   |                               | Catarino 1452     |
| **Dalbergia saxatilis** Hook. f. | Fabaceae        | Shrub       | Woodland, Savanna Woodland, Gallery Forest  | North, South, East, Bijagós | Guineo-Congolian Region    | Leaves                                   |                               | Catarino 1636     |
| **Daniellia Oliveri** (Rolfe) Hutch. & Dalziel | Fabaceae        | Tree        | Savanna Woodland                           | North, South, East, Bijagós | Guineo-Congolian Regions  | Leaves                                   | Handicrafts, Phytochemical | Gomes & Correia 2 |
| Scientific Name                          | Family         | Life Form | Distribution                              | Uses                                      | Reference      |
|-----------------------------------------|----------------|-----------|-------------------------------------------|-------------------------------------------|----------------|
| *Desmodium velutinum* (Willd.) DC.      | Fabaceae       | Shrub     | Woodland, Savanna Woodland, Gallery Forest, Palm Grove | North, South, East, Bijagós             | Catarino 1165  |
| *Detarium microcarpum* Guill. & Perr.   | Fabaceae       | Tree      | Woodland, Savanna Woodland, Palm Grove    | North, South, East, Bijagós              | Catarino 1724  |
| *Dialium guineense* Willd.              | Fabaceae       | Tree      | Forest, Woodland, Palm Grove              | North, South, East, Bijagós              | Diniz et al. 2531 |
| *Dichrostachys cineria* subsp. *platycarpa* (Welw. ex W.Bull) Brenan & Brummitt | Fabaceae       | Shrub     | Woodland, Savanna Woodland, Ruderal      | North, South, East, Bijagós              | Catarino 1620  |
| *Dicranolepis disticha* Planch.         | Thymelaeaceae  | Shrub     | Forest, Woodland                         | South                                    | Moreira 97     |
| *Dioscorea hirtiflora* Benth.           | Dioscoreaceae  | Climber   | Woodland, Savanna Woodland, Palm Grove    | North, South, East, Bijagós              | Catarino eDjalo 250 |
| *Diospyros heudelotii* Hiern            | Ebenaceae      | Shrub     | Forest, Woodland, Gallery Forest          | North, South, East, Bijagós              | Catarino 1734  |
| *Elaeis guineensis* Jacq.               | Arecaceae      | Palm      | Forest, Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós              | Diniz et al. 1031 |
| *Eleocharis mutata* (L.) Roem. & Schult. | Cyperaceae     | Herb      | Gallery Forest, Wet Grass Savanna Woodland | North, South, East, Bijagós              | Vidigal et al. 96 |
| *Entada africana* Guill. & Perr.        | Fabaceae       | Shrub     | Savanna Woodland                         | South                                    | Catarino 1378  |
| *Erythrina senegalensis* DC.            | Fabaceae       | Tree      | Woodland, Savanna Woodland, Palm Grove    | North, South, East, Bijagós              | Indjai 04      |
| *Erythrina sigmoidea* Hua               | Fabaceae       | Tree      | Savanna Woodland                         | North, South, East, Bijagós              | Catarino 1389  |
| *Faidherbia albida* (Delile) A. Chev.    | Fabaceae       | Tree      | Woodland, Savanna Woodland, Palm Grove    | North, East, Bijagós                     | Indjai 23      |
| *Ficus exasperata* Vahl                 | Moraceae       | Tree      | Forest, Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós              | Indjai 14      |
| *Ficus lutea* Vahl                      | Moraceae       | Tree      | Forest, Woodland, Palm Grove              | North, South, Bijagós                    | Catarino 1654  |
| *Ficus polita* Vahl                     | Moraceae       | Tree      | Forest, Palm Grove                        | North, South, Bijagós                    | Indjai 01      |
| *Ficus sur* Forsssk.                    | Moraceae       | Tree      | Forest, Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós              | Catarino 1574  |
| *Fleroya stipulosa* (DC.) Y.F.Deng (Syn. Hallea stipulosa (DC.) Leroy) | Rubiaceae      | Tree      | Gallery Forest                            | North                                    | Espirito Santo 426 |
| *Funtumia africana* (Benth.) Stapf      | Apocynaceae    | Tree      |                                        |                                          |                |
| Species                                      | Family        | Growth form | Habitat types                          | Distribution range            | Plant parts used in traditional medicine | Other uses of medicinal plants | Herbarium voucher |
|---------------------------------------------|---------------|-------------|----------------------------------------|------------------------------|----------------------------------------|---------------------------------|-------------------|
| *Gardenia ternifolia* subsp. jovis-tonantis (Welw.) Verdc. | Rubiaceae     | Shrub       | Woodland, Savanna Woodland, Gallery Forest | North, South, East          | Roots                                  |                                 | Diniz et al. 2557  |
| *Guiera senegalensis* J.F.Gmel.            | Combretaceae  | Shrub       | Savanna Woodland, Ruderal              | North, South, East, Bijagós | Leaves, Roots                          |                                 | Catarino 1373     |
| *Gymnanthemum coloratum* (Willd.) H. Rob. & B.Kahn (Syn. *Veronica colorata* (Willd.) Drake) | Asteraceae    | Shrub       | Woodland                               | North, South, East, Bijagós | Roots, Leaves                         |                                 | Diniz & Gonçalves 1826 |
| *Gymnema sylvestre* (Retz.) R.Br. ex Sm.   | Apocynaceae   | Climber     | Woodland, Gallery Forest               | North, South, East, Bijagós | Afrotropical                           | Bark                            | Catarino 1347     |
| *Gymnosporia senegalensis* (Lam.) Loes. (Syn. *Maytenus senegalensis* (Lam.) Exell) | Celastraceae  | Shrub       | Savanna Woodland, Gallery Forest, Wet Grass Savanna | North, South, East, Bijagós | Sudanian/Zambezian Regions            | Leaves              | Saneé 19          |
| *Harungana madagascariensis* Lam. ex Poir. | Hypericaceae  | Shrub       | Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós | Afrotropical                           | Leaves                          | Catarino 1542     |
| *Hibiscus sterculifolius* (Guill. & Perr.) Steud. | Malvaceae     | Herb        | Woodland, Savanna Woodland, Palm Grove, Gallery Forest, Ruderal | North, South, East, Bijagós | Sudanian/Guinean Sub-Region            | Handicrafts                    | Catarino 1649     |
| *Holarrhena floribunda* (G.Don) T. Durand & Schinz | Apocynaceae   | Tree        | Woodland, Savanna Woodland, Gallery Forest, Palm Grove | North, South, East, Bijagós | Guineao-Con golian Region              | Leaves, Bark                   | Catarino 1706     |
| *Hymenocardia acida* Tul.                  | Phyllanthaceae| Tree        | Woodland, Savanna Woodland              | North, South, East, Bijagós | Afrotropical                           | Bark, Leaves                   | Indjaï 32         |
| *Hypoestes forsskaalii* (Vahl) R.Br.       | Acanthaceae   | Herb        | Savanna Woodland, Ruderal               | North, South, East           | Afrotropical                           | Roots                           | Diniz & Gonçalves 1820 |
| *Hyptis spicigera* Lam.                    | Lamiaceae     | Herb        | Savanna Woodland, Gallery Forest, Palm Grove, Ruderal | North, South, East           | Introduced, Native to America          | Aerial parts of plant          | Catarino 1193     |
| *Hyptis suaveolens* (L.) Poit.             | Lamiaceae     | Herb        | Woodland, Savanna Woodland, Gallery Forest, Palm Grove, Ruderal | North, South, East, Bijagós | Introduced, Native to America          | Phytochemical                  | Diniz & Catarino 1698 |
| *Icacina oliviformis* (Poir.) J.Raynal     | Icacinaceae   | Shrub       | Savanna Woodland                        | North, South, East, Bijagós | Leaves                                 | Food                            |                   |
| Scientific Name | Family     | Type       | Habitat/Region                          | Phytochemical Information |
|-----------------|------------|------------|-----------------------------------------|---------------------------|
| Indigofera arrecta Hochst. ex A.Rich. | Fabaceae | Herb | Cultivated, Ruderal North, East, Bijagós | Sudanian/Guinean Sub-Region Paleotropical Aerial parts of plant Phytochemical Espírito Santo 1923 |
| Indigofera macrophylla Schumach. & Thonn. | Fabaceae | Herb | Woodland, Palm Grove, Gallery Forest North, South, East, Bijagós | Sudanian/Guinean Sub-Region Introduced, Native to America Pantropical Leaves |
| Indigofera suffruticosa Mill. | Fabaceae | Shrub | Cultivated North | Aerial parts of plant Phytochemical Espírito Santo 824 |
| Ipomoea asarifolia (Desr.) Roem. & Schult. | Convolvulaceae | Herb | Woodland, Palm Grove North, South, East, Bijagós | Seeds |
| Jatropha curcas L. | Euphorbiaceae | Shrub | Cultivated South | Introduced, Native to America Pantropical Sap |
| Jatropha gossypifolia L. | Euphorbiaceae | Shrub | Cultivated South | Introduced, Native to America Pantropical Sap Moreira 206 |
| Kalanchoe crenata (Andrews) Haw. | Crassulaceae | Herb | Woodland, Savanna Woodland North, South, East, Bijagós | Introduced, Native to America Pantropical Sap Moreira 2278 |
| Khaya senegalensis (Desv.) A.Juss. | Meliaceae | Tree | Woodland, Savanna Woodland North, South, East, Bijagós | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 242 |
| Landolphia dulcis (R.Br. ex Sabine) Pichon | Apocynaceae | Climber | Woodland, Savanna Woodland North, South, East, Bijagós | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 25 |
| Landolphia heudelotii A.DC. | Apocynaceae | Climber | Woodland, Savanna Woodland North, South, East, Bijagós | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 1594 |
| Lannea acida A.Rich. | Anacardiaceae | Tree | Woodland, Savanna Woodland North, South, East, Bijagós | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 2130 |
| Lecaniodiscus cupanioides Planch. ex Benth. | Sapindaceae | Shrub | Woodland, Savanna Woodland North, South, East, Bijagós | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 1665 |
| Leonotis nepetifolia (L.) R.Br. | Lamiaceae | Herb | Woodland, Savanna Woodland North, South, East, Bijagós | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 1872 |
| Lepisanthes senegalensis (Poir.) Leenh. (Syn. Aphania senegalensis (A.Juss. ex Poir.) Radl.) | Sapindaceae | Shrub | Woodland, Savanna Woodland North, East, Bijagós | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 1715 |
| Leptadenia lanceolata (Schumach. & Thonn.) Decne. (Syn. L. hastata (Pers.) Vatke) | Apocynaceae | Climber | Woodland, Savanna Woodland North, South, East | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 1715 |
| Leptoderris brachyptera (Benth.) Dunn | Fabaceae | Climber | Woodland, Savanna Woodland North, South, East | Introduced, Native to America Pantropical Bark Food, Phytochemical Catarino 1715 |
| Species                        | Family           | Growth form | Habitat types                          | Distribution Guinea-Bissau | Distribution range                      | Plant parts used in traditional medicine | Other uses of medicinal plants | Herbarium voucher |
|-------------------------------|------------------|-------------|----------------------------------------|----------------------------|----------------------------------------|------------------------------------------|-------------------------------------|-------------------|
| *Lippia chevalieri* Moldenke  | Verbenaceae      | Shrub       | Forest, Woodland, Savanna Woodland, Gallery Forest Woodland, Savanna Woodland | North, South, East, Bijagós, East | Guinea-Congo-Golian Region             | Roots                                    |                                     | Catarino 1109     |
| *Lonchocarpus sericeus* (Poir.) KunthDC. | Fabaceae         | Tree        | Gallery Forest, Mangrove                | North, South, East, Bijagós, East | Sudanian Region                        | Bark                                     | Leaves                | Catarino 1387     |
| *Luffa cylindrica* (L.) M.Roem. | Cucurbitaceae    | Herb        | Cultivated, Also Ruderal                | North, South, East, Bijagós, East, South | Afrotropical                           | Leaves                                   |                                     | Catarino 740       |
| *Maerua duchesnei* (De Wild.) F.White | Capparaceae      | Shrub       | Forest, Woodland, Gallery Forest        | North, South, East, Bijagós, East | Guineo-Congo-Golian Regions            | Leaves, Bark                             | Food                  | Catarino 1367     |
| *Mangifera indica* L.          | Anacardiaceae    | Tree        | Cultivated                             | North, South, East, Bijagós, East | Afrotropical                           | Leaves                                   | Food                  | Catarino 1588     |
| *Margaritaria discoidea* (Baill.) G.L. Webster | Phyllanthaceae | Tree       | Forest, Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós, East | Guineo-Congo-Golian Regions            | Leaves                                    | Food                  | Indjai 27          |
| *Mitragyna innermis* (Willd.) Kuntze | Rubiaceae        | Tree        | Gallery Forest, Wet Grass Savanna       | North, South, East, Bijagós, East | Sudanian/Guineo-Congo-Golian Regions   | Leaves                                   |                                     | Catarino 1426     |
| *Momordica cissoides* Planch. ex Benth. | Cucurbitaceae    | Herb        | Forest, Gallery Forest                  | North, South, East, Bijagós, East | Afrotropical                           | Sap                                      |                                     | Moreira 61         |
| *Monodora myristica* (Gaertn.) Dunal | Annonaceae      | Tree        | Forest, Gallery Forest                  | North, South, East, Bijagós, East | Afrotropical                           | Seeds                                    |                                     | Espírito Santo 2331|
| *Morinda chrysorhiza* (Thonn.) DC. (Syn. *M. geminata* DC.) | Rubiaceae      | Tree        | Woodland, Savanna Woodland, Palm Grove, Cultivated | North, South, East, Bijagós, East | Guineo-Congo-Golian Region              | Leaves, Phytochemical                   | Braches, Food       | Catarino 1534     |
| *Moringa oleifera* Lam.       | Moringaceae      | Tree        | Cultivated                             | North, South, East, Bijagós, East | Introduced, Native to India            | Leaves                                  |                                     | Vidigal et al. 198 |
| *Neocarya macrophylla* (Sabine) Prance ex F.White | Chrysobalanaceae | Tree       | Woodland, Savanna Woodland, Palm Grove  | North, South, East, Bijagós, East | Sudanian Region                        | Leaves, Fruits, Food                    |                                     | Diniz & Gonçalves 1778|
| *Newbouldia laevis* (P.Beauv.) Seem. | Bignoniaceae    | Tree        | Woodland, Savanna Woodland, Palm Grove  | North, South, East, Bijagós, East | Guineo-Congo-Golian Region              | Roots, Leaves                           |                                     | Indjai 03          |
| *Ocimum basilicum* L.         | Lamiaceae        | Herb        | Savanna Woodland, Ruderal               | North, South, East, Bijagós, East | Guineo-Congo-Golian Region              | Aerial parts of plant Phytochemical      | Beverages             | Indjai 36          |
| *Ocimum gratissimum* L.       | Lamiaceae        | Shrub       | Palm Grove, Ruderal                     | North, South, East, Bijagós, East | Introduced, Native to Asia             | Aerial parts of plant Phytochemical      | Beverages             | Indjai 37          |
| Scientific Name                  | Family            | Type       | Habitat                                      | Geographical Region                  | Part(s) Used       | Cultural Uses                     | Author(s)                  |
|---------------------------------|-------------------|------------|----------------------------------------------|---------------------------------------|--------------------|-----------------------------------|---------------------------|
| *Opilia amentacea* Roxb.        | Opiliaceae        | Climber    | Savanna Woodland                             | South, East                          | Afro-tropical      | Roots, Leaves, Rituals and beliefs | Espirito Santo 2352       |
| *Ozoroa insignis* Delile        | Anacardiaceae     | Tree       | Savanna Woodland                             | North, South, East, Bijagós          | Afro-tropical      | Roots                             | Catarino 513              |
| *Parinari excelsa* Sabine       | Chrysobalanaceae  | Tree       | Forest, Woodland, Palm Grove                 | North, South, East, Bijagós          | Afro-Neotropical   | Bark                              | Catarino 1705             |
| *Parkia biglobosa* (Jacq.) G.Don| Fabaceae          | Tree       | Woodland, Savanna Woodland                   | North, South, East, Bijagós          | Afro-Neotropical   | Bark                              | Diniz & Gonçalves 1790     |
| *Paulinia pinnata* L.           | Sapindaceae       | Climber    | Forest, Woodland, Savanna Woodland, Palm Grove | North, South, East, Bijagós          | Afro-Neotropical   | Stem, Leaves                       | Catarino 503              |
| *Pavetta corymbosa* (DC.) F.N.Williams | Rubiaceae        | Shrub      | Forest, Woodland, Palm Grove, Gallery Forest | North, South, Bijagós                | Sudanian/Guinean Sub-Region | Leaves                           | Catarino 1619              |
| *Pavetta oblongifolia* (Hiern) Bremek. | Rubiaceae        | Shrub      | Woodland, Savanna Woodland                   | North, South, East                   | Sudanian Region    | Branches, Leaves, Bark, Handicrafts | Catarino 1437              |
| *Pericopsis laxiflora* (Benth. ex Baker) Meeuwen | Fabaceae          | Tree       | Woodland, Savanna Woodland                   | North, South, East                   | Sudanian Region    | Bark                              | Catarino 1736A             |
| *Phoenix reclinata* Jacq.       | Arecaceae         | Palm       | Gallery Forest, Mangrove                     | North, South, East, Bijagós          | Afro-tropical      | Roots, Food, Handicrafts           | Martins & Catarino 1404    |
| *Phyllanthus muellerianus* (Kuntze) Exell | Phyllanthaceae     | Shrub      | Forest, Woodland, Savanna Woodland, Palm Grove | North, South, Bijagós                | Afro-tropical      | Leaves                            | Catarino 1615              |
| *Piper guineense* Schumach. & Thonn. | Piperaceae        | Climber    | Forest, Woodland, Gallery Forest             | South, East, Bijagós                 | Afro-tropical      | Fruits                            | Diniz & Gonçalves 2083     |
| *Platostoma africanum* P.Beauv. | Lamiaceae         | Herb       | Savanna Woodland, Ruderal                     | South, East                          | Paleotropical      | Aerial parts of plant              | Gonçalves et al. 90        |
| *Pouchetia africana* A.Rich. ex DC. | Rubiaceae         | Tree       | Forest, Woodland, Palm Grove                 | North, South, Bijagós                | Sudanian/Guinean Sub-Region       | Food                              | Catarino 1632              |
| *Pouteria alnifolia* (Baker) Roberty (Syn. Malacantha alnifolia) (Baker) Pierre) Premna hispida Benth. | Sapotaceae        | Tree       | Forest, Woodland, Savanna Woodland, Palm Grove | North, South, East, Bijagós          | Sudanian/Guinean Sub-Region       | Roots                            | Catarino 1721              |
| *Psorospermum corymbiferum* Hochr. | Hypericaceae      | Shrub      | Woodland                                     | North, South, East, Bijagós          | Sudanian/Guinean-Congo/Sudano-     | Leaves and Bark, Timber          | Catarino 1070              |

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| Species                          | Family              | Growth form | Habitat types                                           | Distribution Guinea-Bissau | Distribution range                | Plant parts used in traditional medicine | Other uses of medicinal plants | Herbarium voucher |
|---------------------------------|---------------------|-------------|--------------------------------------------------------|-----------------------------|----------------------------------|------------------------------------------|-------------------------------------|------------------|
| *Psorospermum glaberrimum* Hochr. | Hypericaceae        | Shrub       | Woodland, Savanna Woodland                              | South, East                 | Zambezian Regions                | Leaves                                   | Beverages             | Moreira 124     |
| *Psychotria peduncularis* (Salisb.) Steyerm. | Rubiaceae       | Shrub       | Forest, Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, Bijágos       | Guinean Sub-Region                | Leaves, Roots                           |                                   | Indjai 07        |
| *Psydrax parviflora* (Afzel.) Bridson | Rubiaceae       | Shrub       | Woodland, Gallery Forest                                | South                       | Afrotropical                     | Leaves, Bark                            |                                   | Martins & Catarino 1181 |
| *Pterocarpus erinaceus* Lam. ex Poir. | Fabaceae           | Tree        | Woodland, Savanna Woodland                              | North, South, East, Bijágos | Sudanian Region                  | Bark, Timber                            | Food                  | Catarino 1691    |
| *Pterocarpus santalinoides* L’Hér. ex DC. | Fabaceae           | Tree        | Gallery Forest                                           | North, South, East, Bijágos | Afrotropical                     | Roots                                   | Food                  | Catarino 1692    |
| *Quassia undulata* (Guill. & Perr.) D.Dietr. (Syn. *Hannoa undulata* (Guill. & Perr.) Planch.) | Simaroubaceae      | Tree        | Woodland, Savanna Woodland                              | North, South, Bijágos       | Sudanian/Guinean Sub-Regions     | Leaves, Ritusal and beliefs               |                                   | Catarino 1440    |
| *Rauvolfia vomitoria* Afzel. | Apocynaceae         | Tree        | Forest, Woodland, Savanna Woodland, Gallery Forest Cultivated | North, South, East, Bijágos | Afrotropical                     | Leaves, Roots, Stem, Seeds              |                                   | Catarino 1690, Diniz & Gonçalves 1915A |
| *Ricinus communis* L. | Euphorbiaceae       | Herb        | Cultivated                                              | North, South, East, Bijágos | Paleotropical                    | Stem                                     | Seeds                 | Catarino 601     |
| *Ritchea capparoides* (Andrews) Britten | Capparaceae       | Shrub       | Forest, Woodland, Savanna Woodland, Palm Grove          | North, South, Bijágos       | Afrotropical                     | Roots                                   | Food, Rituals and beliefs            | Catarino 1577     |
| *Saba senegalensis* (A.DC.) Pichon | Apocynaceae         | Climber     | Forest, Woodland, Savanna Woodland, Palm Grove          | North, South, East, Bijágos | Sudanian/Guinean Sub-Region     | Leaves                                  | Food, Rituals and beliefs            | Catarino 1650     |
| *Salacia senegalensis* (Lam.) DC. | Celastraceae        | Climber     | Forest, Woodland, Palm Grove                            | North, South, East, Bijágos | Guineo-Congolian Region          | Roots, Handicrafts                      |                                   | Diniz et al. 1268 |
| *Salania dinklagei* (Harms) Keay (Syn. *Albizia dinklagei* (Harms) Harms) | Fabaceae           | Tree        | Woodland, Savanna Woodland, Gallery Forest, Palm Grove, Wet Grass Savanna Woodland | North, South, Bijágos       | Guineo-Congolian Region          | Roots, Handicrafts                     |                                   | Catarino 692      |
| *Sansevieria senegambica* Baker | Asparagaceae        | Herb        | Forest, Woodland, Palm Grove                            | North, South, East, Bijágos | Guinean Sub-Region               | Roots, Bark, Leaves                     | Food                  | Catarino 1344    |
| *Sarcocephalus latifolius* (Sm.) E.A.Bruce | Rubiaceae           | Shrub       | Forest, Woodland, Palm Grove                            | North, South, East, Bijágos | Guinean Sub-Region               |                                         |                                     |                  |
|                                   |                     |             |                                                        |                             |                                  |                                         |                                     |                  |
| Scientific Name                                  | Family           | Type           | Distribution                                      | Uses                                                                 |
|------------------------------------------------|------------------|----------------|--------------------------------------------------|----------------------------------------------------------------------|
| Schultesia guianensis var. latifolia (Mart. ex Progel) E.F.Guim. & Fontella (Syn. S. stenophylla var. latifolia Mart. ex Progel) | Gentianaceae     | Herb           | Forest, Woodland, Palm Grove, Gallery Forest, Wet Grass Savanna | Sudanian/Guineo-Congolian Regions Guinean Sub-Region Whole plant       |
| Scleria boivinii Steud.                         | Cyperaceae       | Herb           | Woodland, Savanna Woodland                       | Whole plant                                                          |
| Sclerocarya bitrea (A.Rich.) Hochst.           | Anacardiaceae    | Shrub          | Savanna Woodland                                 | Afrotopical, Bark, Leaves                                           |
| Scoparia dulcis L.                             | Plantaginaceae   | Herb           | Woodland, Palm Grove, Wet Grass Savanna, Ruderal | Whole plant, Panropical Leaves, Stem                                 |
| Secamone afzelii (Roem. & Schult.) K. Schum.   | Apocynaceae      | Climber        | Woodland, Savanna Woodland                       | Whole plant                                                          |
| Securidaca longipedunculata Fresen.            | Polygalaceae     | Shrub          | Woodland, Savanna Woodland                       | Leaves, Roots, Rituals and beliefs Beverages                        |
| Senna alata (L.) Roxb.                         | Fabaceae         | Shrub          | Ruderal                                          | Leaves                                                              |
| Senna obtusifolia (L.) H.S. Irwin & Barneby    | Fabaceae         | Shrub          | Ruderal                                          | Leaves, Native to America Beverages                                 |
| Senna occidentalis (L.) Link                   | Fabaceae         | Herb           | Ruderal                                          | Leaves, Native to America Beverages                                 |
| Senna podocarpa (Guill. & Perr.) Lock           | Fabaceae         | Shrub          | Woodland, Gallery Forest, Palm Grove, Savanna Woodland, Cultivated | Leaves, Native to Asia Afro-Neotropical Aerial parts of plant         |
| Senna siamea (lam.) H.S. Irwin & Barneby       | Fabaceae         | Tree           | Woodland, Savanna Woodland                       | Leaves, Native to Asia Afro-Neotropical Aerial parts of plant        |
| Sida linifolia Juss. ex Cav.                   | Malvaceae        | Herb           | Woodland, Savanna Woodland, Wet Grass Savanna, Ruderal | Leaves, Native to Asia Afro-Neotropical Aerial parts of plant         |
| Sida urens L.                                  | Malvaceae        | Herb           | Gallery Forest, Ruderal                          | Leaves, Native to Asia Afro-Neotropical Aerial parts of plant        |
| Smeathmannia laevigata Sol. ex R.Br.           | Passifloraceae   | Shrub          | Woodland, Palm Grove, Gallery Forest             | Leaves, Native to Asia Afro-Neotropical Aerial parts of plant        |
| Smilax anceps Willd.                           | Smilacaceae.     | Climber        | Woodland, Savanna Woodland                       | Leaves, Roots                                                       |
| Solanum macrocarpon L.                        | Solanaceae       | Herb           | Woodland, Savanna Woodland, Cultivated           | Leaves, Roots, Food                                                 |
| Sorindea juglandifolia (A.Rich.) Planch. ex Oliv. | Anacardiaceae    | Shrub          | Woodland, Savanna Woodland                       | Leaves, Food                                                        |
| Species                              | Family   | Growth form | Habitat types                                                                 | Distribution range       | Plant parts used in traditional medicine | Other uses of medicinal plants | Herbarium voucher |
|-------------------------------------|----------|-------------|-------------------------------------------------------------------------------|--------------------------|------------------------------------------|-------------------------------|------------------|
| *Spermacoce verticillata* L.        | Rubiaceae| Herb        | Savanna Woodland, Wet Grass Savanna, Ruderal                                 | North, South, East, Bijagós | Roots                                    |                               | Catarino 790     |
| *Sphaeranthus senegalensis* DC.     | Asteraceae| Herb        | Palm Grove, Ruderal                                                            | North, South, East, Bijagós | Whole plant                              | Leaves, Food               | Catarino 1602    |
| *Spondias mombin* L.                | Anacardiaceae| Tree       | Woodland, Savanna Woodland                                                    | North, South, East, Bijagós | Afro-Neotropical                         | Leaves, Food               | Catarino 701     |
| *Stereospermum kunthianum* Cham.    | Bignoniaceae| Tree       | Woodland, Savanna Woodland                                                     | North, South, East        | Afrotropical                             |                               | Martins & Catrino 1500 |
| *Strophanthus hispidus* DC.         | Apocynaceae| Climber    | Woodland, Savanna Woodland, Gallery Forest, Palm Grove                        | North, South, East, Bijagós | Roots                                    | Rituals and beliefs       | Catarino 734     |
| *Strophanthus sarmentosus* DC.      | Apocynaceae| Climber    | Forest, Woodland, Savanna Woodland, Palm Grove                               | North, South, East, Bijagós | Roots                                    | Rituals and beliefs       | Indjai 13        |
| *Tapinanthus bangwensis* (Engl. & K. Krause) Danser | Loranthaceae| Shrub   | Woodland, Savanna Woodland                                                     | North, South, East, Bijagós | Whole plant                              | Rituals and beliefs       | Catarino 1461    |
| *Terminalia albida* Scott-Elliot    | Combretaceae| Tree     | Woodland, Savanna Woodland                                                     | North, South, East, Bijagós | Sudanian/Guineo-Congolian Regions         | Leaves                      | Catarino 1925    |
| *Terminalia macropera* Guill. & Perr. | Combretaceae| Tree     | Woodland, Savanna Woodland                                                     | North, South, East, Bijagós | Sudanian/Guineo-Congolian Regions         | Leaves, Bark               | Catarino 1923    |
| *Tetracera alnifolia* Willd.        | Dilleniaceae| Climber  | Woodland, Savanna Woodland, Palm Grove, Palm Grove                           | North, East, Bijagós      | Afrotropical                             | Sap                          | Catarino 1923    |
| *Trema orientalis* (L.) Blume       | Cannabaceae| Tree      | Forest, Woodland, Palm Grove                                                   | North, South, East, Bijagós | Paleotropical                            | Leaves                      | Catarino 1104    |
| *Trichilia emetica* subsp. *suberosa* J.J.de Wilde | Meliaceae| Tree      | Forest, Woodland, Savanna Woodland                                            | North, South, East, Bijagós | Paleotropical                            | Bark                        | Catarino 1617    |
| *Trichilia prieuriana* A.Juss.      | Meliaceae| Tree      | Forest, Woodland, Savanna Woodland, Palm Grove, Gallery Forest                 | North, South, East, Bijagós | Guineo-Congolian Region                   | Leaves, Bark               | Catarino 622     |
| *Triclisia patens* Oliv.            | Menispermaceae| Climber  | Forest, Woodland, Palm Grove                                                   | North, South, East        | Guinean Sub-Region                       | Roots, Food                | Indjai 19        |
| Scientific Name | Family | Type | Habitat | Distribution | Part(s) | Uses |
|----------------|--------|------|---------|--------------|--------|------|
| *Triumfetta cordifolia* A.Rich. | Malvaceae | Shrub | Woodland, Savanna Woodland, Palm Grove, Wet Grass Savanna, Ruderal | North, South, East, Bijagós | Afrotropical | Leaves |
| *Urena lobata* L. | Malvaceae | Herb | Woodland, Savanna Woodland, Palm Grove, Ruderal Forest, Woodland, Savanna Woodland, Palm Grove | North, South, East, Bijagós | Pantropical | Leaves | Handicrafts |
| *Usteria guineensis* Wild. | Loganiaceae | Climber | Woodland, Savanna Woodland, Palm Grove | North, South, East, Bijagós | Sudanian/Guineo-Congolian Regions | Leaves |
| *Uvaria chamae* P.Beauv. | Annonaceae | Climber | Woodland, Savanna Woodland | North, South, East | Afrotropical | Leaves |
| *Vernonia nigritana* Oliv. & Hiern | Asteraceae | Herb | Woodland, Savanna Woodland | North, South, East | Sudanian/Guineo-Congolian Regions | Roots, Branches, Leaves |
| *Vigna unguiculata* subsp. *unguiculata* var. *spontanea* (Schweinf.) Pasqueta | Fabaceae | Herb | Woodland, Savanna Woodland, Wet Grass Savanna | North, South, East, Bijagós | Sudanian/Guineo-Congolian Regions | Roots |
| *Vitex doniana* Sweet | Lamiaceae | Tree | Woodland, Savanna Woodland, Gallery Forest | North, South, East, Bijagós | Sudanian/Guineo-Congolian Regions | Roots |
| *Vitex madiensis* Oliv. | Lamiaceae | Tree | Woodland, Savanna Woodland | North, South, East | Sudanian-Guineo-Congolian/Sudano-Zambezian Regions | Roots, Flowers |
| *Voacanga africana* Stapf ex Scott-Elliot | Apocynaceae | Tree | Forest, Woodland, Palm Grove | South, Bijagós | Afrotropical | Roots, Leaves, Bark |
| *Waltheria indica* L. | Malvaceae | Shrub | Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós | Pantropical | Roots |
| *Ximenia americana* L. | Olacaceae | Tree | Forest, Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós | Pantropical | Roots, Bark |
| *Xylopia aethiopica* (Dunal) A.Rich. | Annonaceae | Tree | Forest, Woodland | North, South, East, Bijagós | Afrotropical | Leaves, Fruits, Bark |
| *Xylopia longipetala* De Wild. & T.Durand | Annonaceae | Shrub | Woodland, Savanna Woodland, Gallery Forest | North, South, East, Bijagós | Afrotropical | Leaves |
| *Zanthoxylum leprieurii* Guill. & Perr. | Rutaceae | Tree | Forest, Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós | Sudanian/Guineo-Congolian Regions | Bark, Leaves, Roots |
| *Zanthoxylum zanthoxyloides* (Lam.) Zepern. & Timler | Rutaceae | Tree | Forest, Woodland, Savanna Woodland, Palm Grove, Gallery Forest | North, South, East, Bijagós | Sudanian/Guineo-Congolian Regions | Roots |

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region with extensive mangroves dissected by rivers and creeks (Fig. 1C); a transitional zone extending in an easterly direction covered in woodlands (Fig. 1D); the savanna plains in the East and South-East sloping upwards to a maximum height of 300 m (Fig. 1E).

2.2. Guinea-Bissau’s medicinal flora: vegetation types and species distribution

2.2.1. Flora and vegetation types

Guinea-Bissau’s vascular flora comprehends 1524 taxa, of which 1391 are native [3]. The main vegetation types occurring in Guinea-Bissau were documented during several field surveys and are identified in Table 1, in which the species are assigned to vegetation types in accordance with the following classes: a) forest; b) woodland; c) savanna woodland; d) wet grass savanna; e) palm grove; f) riparian forest; g) mangrove and h) ruderal habitats (see Fig. 1B–E). In terms of surface area, savanna woodland dominates, followed by woodland, mangrove, herbaceous savanna and dry forest, mainly found in the South [3].

2.2.2. Medicinal plants

A total of 218 medicinal plants as used in traditional medicine in Guinea-Bissau were identified in a recent study [1]. Ecological and distributional data are presented in Table 1, and in Fig. 2. Most the medicinal plants are trees (38%; 3 palms are included in this group), followed by shrubs (27%), herbs (21%) and climbers (14%) (Fig. 2A). The main vegetation types in which the medicinal plants species occur are woodland and savanna woodland, but species are also found in areas covered in palm groves, forest and riparian forest. Almost all the species occur in more than one vegetation type and half of them in both woodland and savanna woodland (Fig. 2B). The plant-parts most used are leaves, followed by roots and stem bark. In the case of herbaceous species, usually the whole plant and the aerial parts are used (Fig. 3).
Fig. 2. Distribution of medicinal plants in Guinea-Bissau by life-form (A) and vegetation types (B).

Fig. 3. Plant parts used in traditional medicine in Guinea-Bissau.
Given that medicinal plants are often used for other than medicinal purposes, these are identified in Table 1: a) Handicrafts – plant parts used for handicrafts and utensils (16 species); b) Food – whole plant or plant part edible (52 species); c) Beverages – plant parts used for beverages without therapeutic purposes (6 species); d) Rituals and beliefs – whole plants or plant part used in traditional ceremonies or for magic-religious purposes (7 species); e) Phytochemical – plants used by their chemical compounds (21 species) and f) Timber – species used for wood (10 species).

2.2.3. Geographical distribution
For each of the medicinal species considered in our study, information was compiled on their distribution in Guinea-Bissau: North, South, and East (continental regions) and the Bijagós Archipelago (Fig. 1A). Moreover the 218 medicinal species were categorised into its distribution range (phytogeography), which allow us to characterise the diversity of the climatic, edaphic and floristic-ecological conditions where they occurs. Therefore, the distribution types used are based on those of White (see [4]) for African phytogeographic regions, namely: a) Afro-American (= Afro-Neotropical) – species distributed in the tropical or subtropical regions of Africa and America; b) Amphi-Atlantic – species occurring in the coastal regions on both sides of the Atlantic Ocean, in Africa and America; c) Afrotropical – species distributed in the African continent; d) Guinean sub-region; e) Guineo-Congolian region; f) Guineo-Congolian and Sudano-Zambezian regions; g) Guinean sub-region and Zambezian region; h) Paleotropical – species occurring in the tropical or subtropical regions of Africa, Asia, Europe and Oceania; i) Pantropical – species occurring in the tropical or subtropical regions all over the world; j) Sudanian and the Guinean sub-region; l) Sudanian and the Guineo-Congolian regions; m) Sahelian and Sudanian regions; and o) Sudanian and Zambezian regions.

2.3. Data collection
The study of ecological aspects associated with Guinea-Bissau's medicinal flora was carried out by means of in-country fieldwork, the collection and study of herbarium specimens and a detailed inventory of published sources. An initial countrywide study of the country's flora was conducted between 1997 and 2007 (for more details see [3]). Recent fieldwork included visits to communities in different areas of the country, interviews with local community members and healers, and observations in loco. Close collaboration with IBAP staff allowed for the gathering of information on ecological conditions and conservation measures implemented in protected areas. The data presented in Table 1 was assembled by means of the following sources:

1) Fieldwork. Ecological and distribution data was collected during the fieldwork carried out during the last two decades in different regions of Guinea-Bissau. The in-country collection of ethnobotanical data relied on semi-structured interviews, in-field observations and guided field surveys were conducted with local healers and members of local communities.

2) Herbarium Specimens. A detailed review was undertaken of plant specimens at the LISC Herbarium (University of Lisbon) that contain the most important worldwide collection from this country. After examining each record in the herbarium's Guinea-Bissau collection, a critical and updated review of Guinea-Bissau's plants, their growth-environment, their medicinal relevance and alternative uses was implemented.

3) Bibliographic Review. A review of publications on medicinal flora of Guinea-Bissau covering the period from 1880s to the present was carried out (for more details see [1]). Moreover, a review of the literature was carried out to investigate previous studies' classifications of vegetation types [e.g. 3,5–7], and ecological data collected during fieldwork was complemented with a study of the literature on ecology, biodiversity and the impact of climate change in Guinea Bissau.

Finally all the available data on Guinea-Bissau's medicinal flora, including ecological knowledge obtained from specimen vouchers and published literature, as well as the authors' field experience, were incorporated into a database (Table 1).
Acknowledgements

The authors wish to extend their gratitude to many collaborators in Guinea-Bissau for their assistance during fieldwork, as well as local institutions such as IBAP (Instituto da Biodiversidade e das Áreas Protegidas) and INEP (Instituto Nacional de Estudos e Pesquisa), for the ethical approvals for collecting plant samples in Guinea-Bissau. We also thank to Agostino Palminha in the preparation of the map of Guinea-Bissau. This study was financed by Portuguese National Funds, through FCT – Fundação para a Ciência e a Tecnologia: IF/01130/2013/CP1165/CT0002 to PH and SFRH/BGCT/113708/2015 to MR; and by the project PTDC/AFR/117785/2010 to LC.

Appendix A. Supplementary material

Supplementary data associated with this article can be found in the online version at http://dx.doi.org/10.1016/j.dib.2016.03.077.

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