

## **Western Regional Centre**

### **Herbarium**

The herbarium of Western Regional Centre, BSI, Pune is known by its international acronym 'BSI'. At present a total of 1,79,000 specimens are maintained in the general herbarium and 750 type specimens maintained in the 'Type Section'. 'BSI' is designated as the prime plant repository of the Western India under the Biological Diversity Act, 2002 and indispensable to the research work in the field of taxonomy for various plant groups. An important asset of WRC is the presence of about 130 year old significant plant collections by eminent Botanists starting from T. Cooke, G.M. Woodrow, W.A. Talbot and I. Thaker. The old Pune Herbarium was started over a century back in 1880 under Dr. Theodore Cooke. It was originally located at Ganeshkhind Botanical Garden and the collections formed the basis of Cooke's "Flora of the Presidency of Bombay". Unfortunately the collections were destroyed by a fire in May 1902, but Cooke donated a duplicate set of his personal collections of 32,347 specimens. This was maintained under the care of Economic Botanist, Economic Botany Herbarium of Agriculture College, Pune. These specimens also included other major historic plant collections by V.B. Kanitkar, G.A. Gammie, R.P. Paranjape, R.K. Bhide, H.M. Chibber, L.D. Garade, G.M. Rayn, G.B. Patwardhan, S.S. Ranade, W. Burns, and S.R. Godbole. In addition, a total of about 9264 specimens of North Kanara collections by W.A. Talbot's were also purchased in 1910. Besides Exchange/gift of specimens from Albert, Chatterjee, Fischer, Gage, King, Prain, Scortechini and Willis were also incorporated. These invaluable collections that served as a nucleus of the present herbarium were transferred to the Botanical Survey of India by Principal Prof. L.S.S. Kumar, Economic Botanist, Govt. of Bombay and Shri. Shriname, Director of Agriculture. A total of 41,798 herbarium specimens were inherited initially. The successive collections included those of G.S. Puri, M.Y. Ansari, R.S. Rao, R.V. Kammathy, R.S. Raghavan, A.S. Rao, S.D. Mahajan, R.K. Arora, B.S. Ahuja, S.K. Jain, K.C. Kanodia, R.M. Patil, K.N. Subramanian, S. Sharma, John Cherian, R.K. Kochhar, B.V. Reddy, B.M. Wadhwa, K.P. Janardhanan, B.D. Sharma, N.P. Singh, S. Karthikeyan, S.D. Deshpande, P.L. Narasimhan, P.V. Prasanna, V.P. Prasad, S.G. Pradhan, S.Y. Kambale, S. Moorthy, B.G. Kulkarni, M.J. Kothari, K. Hemadri, K.V. Billore, S.D. Deshpande, P.G. Diwakar, A.N. Londhe, T. Chakraborty, S.K. Das Das, C.R. Jadhav, D.L. Shirodkar, R.Kr. Singh, S.A. Puneekar, M. Datar, R. Manikandan, J. Jayanthi, Jeewan Singh Jalal, Priyanka Ingle, Prajakta Pathare, M. Pawar,

A.M. Neelima, resulting in accretion of about 1,79,000 specimens in the general herbarium including 750 type specimens maintained in the 'Type Section' of the Centre. Recent additions in 'Pteridophyte Section' are made by A. Benniamin, V.K. Rawat, D. Tripathi and D. Jesubalen. 'Mycology section' comprises of a large number of microfungi collections made by Rashmi Dubey, S. Sengupta Chatterjee and A. Pandey. The Phycology section of the centre houses rich collection of marine as well as fresh water algae by P.S.N. Rao, Sonali Piwaltkar, Anil Kumar and Sukumar Bhakta.

### **New Taxa Described**

#### **Acanthaceae**

*Dicliptera nasikensis* Lakshmin. & B.D. Sharma

#### **Anthericaceae**

*Chlorophytum bharuchae* Ansari, Sundararagh. & Hemadri

#### **Apiaceae**

*Pimpinella katrajensis* R.S. Rao & Hemadri

*Pimpinella rollae* Billore & Hemadri

#### **Aponogetonaceae**

*Aponogeton satarensis* Sundararagh., A.R. Kulk. & S.R. Yadav

#### **Araceae**

*Arisaema murrayi* (J. Graham) Hook. var. *sonubeniae* Tetali, Puneekar & Lakshmin.

#### **Asteraceae**

*Blumea venkataramanii* R.S. Rao & Hemadri

#### **Asclepiadaceae**

*Bidaria khandalensis* (Santapau) A.P. Jagtap & N.P. Singh

*Brachystelma malwanense* S.R. Yadav & N.P. Singh

*Ceropegia attenuata* var. *mookambikkae* P.G. Diwakar & R.Kr. Singh

*Ceropegia huberi* Ansari

*Ceropegia jainii* Ansari & B.G. Kulk.

*Ceropegia karulensis* Puneekar, Tamhankar, Lakshmin., Kumaran, A. Raut, S. K. Srivast.  
& Kavade

*Ceropegia maccannii* Ansari

*Ceropegia mahabalei* Hemadri and Ansari

*Ceropegia maharashtrensis* Puneekar, Tamhankar, Lakshmin., Kumaran, A. Raut & S.  
K. Srivast.

*Ceropegia media* (Huber) Ansari

*Ceropegia noorjahaniae* Ansari

*Ceropegia rollae* Hemadri

*Ceropegia sahyadrica* Ansari & B.G. Kulk.

*Ceropegia santapau* Wadhwa & Ansari

*Seshagiria sahyadrica* Ansari & Hemadri

### **Balanophoraceae**

*Acroblastum ambavanense* Venkata Reddi

### **Colchicaceae**

*Camptorrhiza indica* S.R. Yadav, N.P. Singh & B. Mathew

*Iphigenia magnifica* Ansari & R.S. Rao

*Iphigenia sahyadrica* Ansari & R.S. Rao

### **Commelinaceae**

*Cyanotis arcotensis* R.S. Rao

*Cyanotis cerifolia* R.S. Rao & Kammathy

### **Cyperaceae**

*Cyperus pentabracteatus* Govind. & Hemadri

*Fimbristylis nagpurensis* V.P. Prasad & N.P. Singh

*Fimbristylis ratnagirica* V.P. Prasad & N.P. Singh

*Fimbristylis simpsonii* V.P. Prasad & N.P. Singh

*Fimbristylis unispicularis* Govind. & Hemadri

*Pycreus canarensis* V.P. Prasad & N.P. Singh

### **Eriocaulaceae**

*Eriocaulon anshiense* Punekar, Malpure & Lakshmin.

*Eriocaulon apetalum* Punekar, Malpure & Lakshmin.

*Eriocaulon balakrishnanii* Punekar, Lakshmin. & Vasudeva Rao

*Eriocaulon cookie* Punekar, Malpure & Lakshmin.

*Eriocaulon kanarense* Punekar, Watve & Lakshmin.

*Eriocaulon konkanense* Punekar, Malpure & Lakshmin.

*Eriocaulon koynense* Punekar, Mungikar & Lakshmin.

*Eriocaulon maharashtrense* Punekar & Lakshmin.

*Eriocaulon peninsulare* Punekar & Lakshmin.

*Eriocaulon sahyadricum* Punekar, Malpure & Lakshmin.

### **Euphorbiaceae**

*Dalechampia stenoloba* Sundararagh. & B.G. Kulk.

### **Gentianaceae**

*Canscora devandrae* R.Kr. Singh & P.G. Diwakar

### **Hyacinthaceae**

*Dipcadi maharashtrense* Deb & S. Dasgupta

*Drimia razii* Ansari

### **Leguminosae - Caesalpinioideae**

*Cassia kolabensis* Kothari, Moorthy & M.P. Nayar

### **Leguminosae - Papilionoideae**

*Alysicarpus vasavadae* Hemadri

*Indigofera deccanensis* Sanjappa

*Indigofera santapau* Sanjappa

*Moghania rollae* Billore & Hemadri

*Smithia agharkarii* Hemadri

*Vigna khandalensis* (Santapau) Sundararagh. & Wadhwa

### **Lamiaceae**

*Leucas deodikarii* Billore & Hemadri

### **Malvaceae**

*Abelmoschus manihot* (L.) Medik. subsp. *tetraphyllus* (Roxb. ex Horn.) Borss. Waalk.  
Var. *megaspermus* Hemadri

### **Meliaceae**

*Aglaia talbotii* Sundararagh.

*Azadirachta indica* A. Juss. subsp. *vartakii* Kothari, Londhe and N.P.Singh

### **Orchidaceae**

*Pecteilis korigadensis* Jalal & Jayanthi

### **Poaceae**

*Arthraxon deccanensis* S.K. Jain

*Arthraxon inermis* Hook.f. var. *tzvelevii* S.K. Jain

*Arthraxon junnaensis* S.K. Jain & Hemadri

*Arthraxon lancifolius* Hochst. var. *hindustanicus* S.K.Jain & Deshp.

*Arthraxon raizadae* S.K.Jain, Hemadri & Deshp.

*Bhidea borii* Deshp., Ved Prakash & N.P. Singh

*Bothriochloa jainii* Deshp. & Hemadri

*Isachne borii* Hemadri

*Isachne mysorensis* Sundararagh.

*Ischaemum raizadae* Hemadri & Billore

*Manisuris goaensis* R.S. Rao & Hemadri

*Manisuris mysorensis* S.K. Jain & Hemadri

*Manisuris ratnagirica* B.G.Kulk. & Hemadri

*Manisuris santapau* S.K. Jain & Deshp.

*Panicum garadei* Sundararagh. & Karthik.

*Schizachyrium sudhanshui* N.P. Singh

#### **Ranunculaceae**

*Delphinium malabaricum* (Huth) Munz var. *ghaticum* Billore

#### **Rubiaceae**

*Neanotis sahyadrica* Billore & Mudaliar

*Tarenna agumbensis* Sundararagh.

#### **Zingiberaceae**

*Zingiber diwakarianum* R.Kr. Singh

### **NEW GENERA AND SPECIES OF MICROFUNGI**

#### **New Genera**

*Sheathnema* Dubey & Moonambeth

*Sawantomyces* Dubey & Moonambeth

#### **New species**

*Elotespora indica* Dubey & Sengupta Chatterjee

*Temerariomyces indicum* Dubey

*Thirumalacharia thanensis* Dubey

*Periconia chandoliensis* Dubey

*Tripaspermum melghatensis* Dubey & Sengupta

*Stigmina koyanensis* Dubey & Sengupta

*Colamaniella biligiriensis* Dubey & Sengupta

*Cercosporidium ziziphus* Dubey and Pandey

*Goosiomyces bambusicola* Dubey & Moonambeth

*Solicorynespora matheransii* Dubey & Moonambeth

*Vermiculariopsiella papayae* Dubey & Moonambeth

*Zygosporium cocos* Dubey

*Kamalomyces mahabaleshwarensis* Dubey & Moonambeth

*Zygosporium dilleni* Dubey

*Custingophora ratnagiriensis* Dubey & Moonambeth

*Tharoopama livistoniae* Dubey & Moonambeth

## LIST OF TYPES IN BSI

### CRYPTOGAMS

#### ALGAE

#### HOLOTYPE

##### Dasyaceae

- *Dasya ulhasii* Sonali Jadiye & P.S.N. Rao

### FUNGI

#### HOLOTYPE

##### Capnodiaceae

- *Tripospermum melghatense* Rashmi Dubey & S. Sengupta

##### Mycosphaerellaceae

- *Stigmina koyanensis* Rashmi Dubey & S. Sengupta

##### Pezizomycotina

- *Colemaniella biligiriensis* Rashmi Dubey & S. Sengupta
- *Elotespora indica* Rashmi Dubey & S. Sengupta Chatterjee
- *Sawantomyces indicus* Rashmi Dubey & Moonamb.
- *Solicorynespora matheranensis* Rashmi Dubey & Moonamb.
- *Temerariomyces indicus* Rashmi Dubey
- *Tharoopama livistoniae* Rashmi Dubey & Moonamb.

- *Thirumalacharia thanensis* Rashmi Dubey
- *Zygosporium cocos* Rashmi Dubey
- *Zygosporium dilleni* Rashmi Dubey

#### **Pleosporales**

- *Periconia chandoliensis* Rashmi Dubey

#### **Sordariomycetes**

- *Custingophora ratnagiriensis* Rashmi Dubey & Moonamb.

#### **Pleosporomycetidae**

- *Sporidesmium biligiriense* Rashmi Dubey & S. Sengupta

#### **Vermiculariopsiaceae**

- *Vermiculariopsiella papayae* Rashmi Dubey & Moonamb.

#### **ISOTYPE**

#### **Pezizomycotina**

- *Sheathnema indicum* Rashmi Dubey & Moonamb.

#### **PHANEROGAMS**

##### **ANGIOSPERMS**

##### **HOLOTYPES**

#### **Acanthaceae**

- *Strobilanthes minor* Talbot

#### **Apiaceae**

- *Pimpinella katrajensis* Rao & Hemadri
- *Pimpinella rollae* Billore & Hemadri

#### **Asclepiadaceae**

- *Ceropegia mahabalei* Hemadri & Ansari var. *hemalatae* Rahangdale & Rahangdale

#### **Asteraceae**

- *Vernonia ornata* Talbot



### **Celastraceae**

- *Gymnosporia konkanensis* Talbot

### **Clusiaceae**

- *Garcinia talbotii* (Talbot) Raizada ex Santapau

### **Commelinaceae**

- *Murdannia brownii* Nandikar & Gurav

### **Lauraceae**

- *Cryptocarya procera* Talb.

### **Leeaceae**

- *Leea talbotii* King ex Talbot

### **Leguminosae – Papilionoideae**

- *Indigofera duthiei* Drum ex. Naik

### **Loranthaceae**

- *Viscum trilobatum* Talbot

### **Malvaceae**

- *Abelmoschus manihot* (L.) Medik. subsp. *tetraphyllus* ( Roxb. ex Horn.) Borss. var. *megaspermus* Hemadri

### **Meliaceae**

- *Aglaia talbotii* Sundararagh.

### **Myrtaceae**

- *Eugenia kanarensis* Talbot
- *Eugenia memecylifolia* Talbot
- *Eugenia utilis* Talbot

### **Orchidaceae**

- *Habenaria agasthyamalaiana* Jalal, Jayanthi & Suresh kumar
- *Pecteilis korigadensis* Jalal & Jayanthi

## Poaceae

- *Coelachne ghatika* Naik
- *Danthonia gammiei* Bhide
- *Panicum deccanense* Naik & Patunkar
- *Panicum paianum* Naik & Patunkar var. *paianum*
- *Panicum paianum* Naik & Patunkar var. *minor* Naik & Patunkar
- *Panicum phoinicladus* Naik & Patunkar

## Rhamnaceae

- *Ventilago maderaspatana* Gaertn. var. *fructifida* Santapau

## Rubiaceae

- *Anotis prainiana* Talbot
- *Lasianthus sessilis* Talbot
- *Psychotria canarensis* Talbot
- *Psychotria flavida* Talbot
- *Psychotria octosulcata* Talbot

## Symplocaceae

- *Symplocos kanarana* Talbot

## Tamaricaceae

- *Tamarix kutchensis* B.V. Shetty & R.P. Pandey

## Tiliaceae

- *Triumfetta tungarensis* Billore

## ISOTYPES

### Acanthaceae

- *Barleria lavaniana* S.S. Patil, S.R. Yadav & M.M. Lekhak
- *Dicliptera nasikensis* Lakshmi & Sharma
- *Strobilanthes minor* Talbot

### **Amaryllidaceae**

- *Crinum malabaricum* Lekhak & S.R. Yadav

### **Anthericaceae**

- *Chlorophytum gothanense* Malpure & S.R. Yadav

### **Apiaceae**

- *Pimpinella katrajensis* Rao & Hemadri
- *Pimpinella rollae* Billore & Hemadri

### **Aponogetonaceae**

- *Aponogeton bruggenii* S.R. Yadav & Govekar
- *Aponogeton nateshii* S.R. Yadav

### **Araceae**

- *Amorphophallus bhandarensis* S. R. Yadav, Kahalkar & Bhuskute
- *Arisaema caudatum* Engler
- *Arisaema murrayi* (J. Graham) Hook. var. *Sonubeniae* Tetali, Puneekar & Lakshmin.
- *Arisaema sivadasanii* S.R. Yadav, Patil & Jan.

### **Asclepiadaceae**

- *Brachystelma ciliatum* Arekal & Ramakrishna
- *Ceropegia anantii* S.R. Yadav, Sardesai & Gaikwad
- *Ceropegia attenuata* Hook. var. *mookambikae* P.G. Diwakar & R. Kr. Singh
- *Ceropegia bhatii* S.R. Yadav & Shendage
- *Ceropegia huberi* Ansari
- *Ceropegia mahabalei* Hemadri & Ansari
- *Ceropegia mohanramii* S.R. Yadav, Gavade & Sardesai
- *Ceropegia noorjahaniae* Ansari
- *Ceropegia rollae* Hemadri

- *Ceropegia sahyadrica* Ansari & B.G. Kulk.
- *Ceropegia santapau* Wadhwa & Ansari
- *Seshagiria sahyadrica* Ansari & Hemadri

#### **Asteraceae**

- *Vernonia ornata* Talbot

#### **Balsaminaceae**

- *Impatiens bhaskarii* J.R.N.Dessai , L.Joseph & Janarth.
- *Impatiens vivekananthanii* J.R.N.Dessai & Janarth.

#### **Caryophyllaceae**

- *Arenaria curvifolia* Majumdar

#### **Cleomaceae**

- *Corynandra elegans* Chandore, U.S. Yadav & S.R. Yadav

#### **Clusiaceae**

- *Garcinia talbotii* (Talbot) Raizada ex Santapau

#### **Combretaceae**

- *Combretum shivannae* Gholave, Kambale, Lekhak & S.R. Yadav

#### **Commelinaceae**

- *Commelina badamica* Nandikar & Gurav
- *Cyanotis arcotensis* Rao
- *Cyanotis cerifolia* Rao & Kammathy
- *Murdannia saddlepeakensis* M.V. Ramana & Nandikar

#### **Cyperaceae**

- *Cyperus diwakarii* W. Khan & S. Solanke
- *Cyperus karthikii* W. Khan & Lakshimin.
- *Cyperus yadavii* W. Khan, Chavan & S. Solanke
- *Eleocharis konkanensis* Chandore, Borude, Kambale & S.R. Yadav

- *Eleocharis lankana* Koyama Subsp. *mohamadii* W. Khan
- *Eleocharis geniculata* (L.) Roem. & Schult. Var. *kundalica* W. Khan & M. Sardesai
- *Eleocharis neglecta* Borude, Chandore, Gholave & S.R. Yadav
- *Eleocharis wadoodii* S.R. Yadav , Lekhak & Chandore
- *Fimbristylis ambavanensis* V.P. Prasad & N.P. Singh
- *Fimbristylis bhuskutii* W. Khan & R.D. Taur
- *Fimbristylis dichotoma* (L.) Vahl subsp. *depauperata* (R.Br.) var. *bhokarensis* W. Khan et. al f. *tirunelveliensis* R.D. Taur
- *Fimbristylis dichotoma* (L.) Vahl var. *poladpurensis* D.P. Chavan
- *Fimbristylis koyamii* W. Khan & R.Shaikh
- *Fimbristylis merrillii* Kern. Subsp. *sofiyae* W. Khan & D.P Chavan
- *Fimbristylis naikii* W. Khan & Lakshmin.
- *Fimbristylis ratnagirica* V.P. Prasad & N.P. Singh
- *Fimbristylis sanjappai* W.Khan & S. Solanke
- *Fimbristylis simpsonii* V.P. Prasad & N.P. Singh
- *Fimbristylis zatei* W.Khan & D.P. Chavan
- *Naikia kernii* W. Khan, Bhuskute & Kahalkar
- *Pycnus kanarensis* Prasad & N.P. Singh
- *Scirpus naikianus* W. Khan
- *Scleria neesii* Kunth. var. *gadchiroliensis* Govekar Sardesai & Kahalkar

#### **Eriocaulaceae**

- *Eriocaulon apetalum* Punekar, Malpure & Lakshmin.
- *Eriocaulon anshiense* Punekar, Malpure & Lakshmin.
- *Eriocaulon balakrishnanii* Punekar, Lakshmin. & Vasud.
- *Eriocaulon baramaticum* Shimpale et. al.
- *Eriocaulon belgaumensis* Shimpale & S.R. Yadav

- *Eriocaulon cookei* Punekar, Malpure & Lakshmin.
- *Eriocaulon epedunculatum* Potdar et al.
- *Eriocaulon horsley- kundae* Fyson
- *Eriocaulon kanareense* Punekar, Watve & Lakshmin.
- *Eriocaulon karnatakense* S.P. Gaikwad et. al.
- *Eriocaulon kolhapureense* Gaikwad, Sardesai & Yadav
- *Eriocaulon konkanense* Punekar, Malpure & Lakshmin.
- *Eriocaulon koynense* Punekar, Mungikar & Lakshmin.
- *Eriocaulon maharashtrense* Punekar & Lakshmin.
- *Eriocaulon parvicephalum* Darshetkar, Choudhary, Datar & Tamhankar
- *Eriocaulon peninsulare* Punekar & Lakshmin.
- *Eriocaulon ratnagiricus* Yadav, Gaikwad & Sardesai
- *Eriocaulon stellulatum* Koern.

#### **Euphorbiaceae**

- *Dalechampia stenoloba* Raghavan & Kulkarni
- *Euphorbia concanensis* Janarth. & S.R. Yadav

#### **Gentianaceae**

- *Canscora devendrae* R.Kr. Singh & Diwakar
- *Canscora sanjappae* Diwakar & R.Kr. Singh

#### **Hyacinthaceae**

- *Dipcadi goaense* A. Prabhugaonkar, U.S. Yadav & Janarth.

#### **Hydatellaceae**

- *Trithuria konkanensis* S.R. Yadav & M.K. Janarthanam

#### **Hydrocharitaceae**

- *Blyxa talbotii* Hook.f.

### **Leguminosae – Caesalpinioideae**

- *Cassia kolabensis* Kothari, Moorthy & Nayar

### **Leguminosae – Papilionoideae**

- *Alysicarpus sanjappae* S. Chavan, Sardesai & Pokle
- *Alysicarpus vasavadae* Hemadri
- *Crotalaria decasperma* Naik
- *Mucuna sanjappae* Aitawade & S.R. Yadav
- *Smithia agharkarii* Hemadri
- *Vigna sahyadriana* Aitawade, K.V. Bhat & S.R. Yadav

### **Lamiaceae**

- *Leucas deodikarii* Billore & Hemadri

### **Lentibulariaceae**

- *Utricularia babui* Yadav, Sardesai & S.P. Gaikwad
- *Utricularia janarthanamii* Yadav, Sardesai & S.P. Gaikwad
- *Utricularia naikii* Yadav, Sardesai & S.P. Gaikwad

### **Liliaceae**

- *Camptorrhiza indica* Yadav, Singh & Mathew
- *Chlorophytum bharuchae* Ansari, Raghavan & Hemadri
- *Iphigenia magnifica* Ansari & Rao
- *Iphigenia sahyadrica* Ansari & Rao

### **Lythraceae**

- *Rotala belgaumensis* S. R. Yadav, Malpure & Chandore
- *Rotala pseudojuniperina* Lekhak & S.R. Yadav
- *Rotala sahyadrica* S. P. Gaikwad, Sardesai

### **Malvaceae**

- *Abelmoschus manihot* (L.) Medik. subsp. *tetraphyllus* (Roxb.ex Horn.) Borss. var. *megaspermus* Hemadri
- *Sida pradeepiana* Tambde & Sardesai

#### **Meliaceae**

- *Azadirachta indica* A. Juss. subsp. *vartakii* Kothari, Londhe & Singh

#### **Myrtaceae**

- *Eugenia memecylifolia* Talbot
- *Eugenia utilis* Talbot

#### **Orchidaceae**

- *Habenaria agasthyamalaiana* Jalal, Jayanthi & Sureshkumar

#### **Piperaceae**

- *Piper relictum* Lekhak, S.S. Kambale & S.R. Yadav
- *Piper dravidii* Lekhak, S.S. Kambale & S.R. Yadav

#### **Poaceae**

- *Arthraxon junnaensis* Jain & Hemadri
- *Arthraxon lancifolius* (Trin) Hochst. var. *hindustanicus* Jain & Deshpande
- *Arthraxon raizadae* Jain, Hemadri & Deshpande
- *Bhidea burnsiana* Bor
- *Bothriochloa jainii* Deshpande & Hemadri
- *Brachiaria brizantha* (Hochst. ex.A. Rich) Stapf var. *ciliata* Basappa & Muniyamma
- *Brachiaria chennaveeraiana* Basappa & Muniyamma
- *Brachiaria eruciformis* (J.E. Smith) Griseb. var. *divaricata* Basappa & Muniyamma
- *Brachiaria hybrida* Basappa & Muniyamma
- *Brachiaria muna* Basappa
- *Brachiaria ramosa* (L.) Stapf var. *pubescens* Basappa & Muniyamma
- *Brachiaria reptans* (L.) Gard. & C.E. Hubb. var. *hispida* Basappa & Muniyamma



- *Brachiaria semiundulata* (Hochst.) Stapf var. *intermedia* Basappa & Muniyamma
- *Brachiaria semiundulata* (Hochst.) Stapf var. *lanata* Basappa & Muniyamma
- *Brachiaria setigera* (Retz.) C.E. Hubb. var. *albistyla* Basappa & Muniyamma
- *Brachiaria stapfiana* Basappa & Muniyamma
- *Brachiaria villosa* (Lamk.) A. Camus var. *glaberrima* Basappa & Muniyamma
- *Coelachne ghatika* Naik
- *Danthonia gammiei* Bhide
- *Dimeria santapau* Almeida
- *Dimeria woodrowii* Stapf
- *Enteropogon badamicus* Bhide
- *Eulalia shrirangii* Salunkhe & Podar
- *Glyphochloa henryi* Janarth., V.C. Joshi & S. Rajkumar
- *Glyphochloa veldkampii* M.A. Fonseca & Janarth.
- *Isachne bicolor* Naik & Patunkar
- *Isachne borii* Hemadri
- *Ischaemum agharkarii* Datar, R.K. Choudhary & Gorade
- *Ischaemum raizadae* Hemadri & Billore
- *Jansenella neglecta* S.R. Yadav, Chivalkar & Gosavi
- *Lasiurus ecaudatus* Satya & Shank
- *Manisuris goaensis* Rao & Hemadri
- *Manisuris mysorensis* Jain & Hemadri
- *Manisuris ratnagirica* B.G. Kulk. & Hemadri
- *Manisuris santapau* Jain & Deshpande
- *Mnesithea veldkampii* Potdar, Gaikwad, Salunkhe & S.R. Yadav
- *Oryza malampuzhaensis* Krishn. & Chandr.

- *Panicum deccanense* Naik & Patunkar
- *Panicum paianum* Naik & Patunkar var. *minor* Naik & Patunkar
- *Panicum paianum* Naik & Patunkar var. *paianum*
- *Panicum phoinicladus* Naik & Patunkar
- *Pogonachne racemosa* Bor
- *Rottboellia talbotii* Hook.f.
- *Themeda palakkadensis* Chorghe, K. Prasad & Lakshmin.
- *Themeda pseudotremula* Potdar, Salunkhe & Yadav
- *Tripogon polyanthus* Naik & Patunkar
- *Tripogon roxburghianus* (Schult.) Bhide

#### **Polygonaceae**

- *Polygonum hydropiper* L. var. *glandulosissima* Gage

#### **Portulacaceae**

- *Portulaca badamica* S.R. Yadav & Dalavi
- *Portulaca lakshminarasimhaniana* S.R. Yadav & Dalavi

#### **Rhamnaceae**

- *Ventilago maderaspatana* Gaertn., var. *fructifida* Santapau

#### **Rubiaceae**

- *Borreria eradii* Ravi
- *Anotis prainiana* Talbot
- *Lasianthus sessilis* Talbot
- *Tarenna agumbensis* Sundararagh.

#### **Symplocaceae**

- *Symplocos kanarana* Talbot

#### **Tiliaceae**

- *Triumfetta tungarensis* Billore

### **Zingiberaceae**

- *Amomum ghaticum* K.G. Bhat
- *Paracautleya bhatti* R.M. Smith
- *Zingiber diwakarianum* R.Kr. Singh

### **PARATYPES**

### **Acanthaceae**

- *Dicliptera nasikensis* Lakshmin. & B.D. Sharma

### **Apiaceae**

- *Heracleum dalgadianum* Almeida
- *Pimpinella katrajensis* Rao & Hemadri

### **Araceae**

- *Amorphophallus bhandarensis* S. R. Yadav, Kahalkar & Bhuskute

### **Asclepiadaceae**

- *Brachystelma ciliatum* Arekal & Ramakrishna
- *Ceropegia attenuata* Hook. var. *mookambikae* P.G. Diwakar & R.Kr. Singh
- *Ceropegia huberi* Ansari
- *Ceropegia mahabalei* Hemadri & Ansari
- *Ceropegia rollae* Hemadri
- *Ceropegia sahyadrica* Ansari & B.G. Kulk.
- *Ceropegia santapaui* Wadhwa & Ansari
- *Seshagiria sahyadrica* Ansari & Hemadri

### **Asteraceae**

- *Blumea venkataramanii* Rao & Hemadri

### **Celastraceae**

- *Gymnosporia konkanensis* Talbot

### **Commelinaceae**

- *Cyanotis cerifolia* Rao & Kammathy

### **Convolvulaceae**

- *Neuropeltis malabarica* Van Ooststr.

### **Cyperaceae**

- *Fimbristylis dichotoma* subsp. *depauperata* var. *bhokarensis* W. Khan et. al
- *Fimbristylis falcata* (Vahl) Kunth var. *pseudolatifolia* W. Khan & R.D. Taur
- *Fimbristylis merrillii* var. *majalgaonsis* W. Khan
- *Fimbristylis sanjappai* W. Khan & S. Solanke
- *Fimbristylis sivarajanii* W. Khan & R.D. Taur

### **Eriocaulaceae**

- *Eriocaulon apetalum* Puneekar, Malpure & Lakshmin.
- *Eriocaulon anshiense* Puneekar, Malpure & Lakshmin.
- *Eriocaulon balakrishnanii* Puneekar, Lakshmin & Vasud.
- *Eriocaulon peninsulare* Puneekar & Lakshmin.
- *Eriocaulon stellulatum* Koern.

### **Euphorbiaceae**

- *Croton caudatus* Geisel var. *obovoides* Balak. & T. Chakrab.

### **Gentianaceae**

- *Canscora devendrae* R. Kr. Singh & Diwakar

### **Gesneriaceae**

- *Paraboea nagalandiana* Deb & Dutta

### **Leguminosae – Papilionoideae**

- *Alysicarpus vasavadae* Hemadri

- *Smithia agharkarii* Hemadri
- *Zornia quilonensis* Ravi

#### **Lamiaceae**

- *Leucas deodikarii* Billore & Hemadri
- *Plectranthus parvifolius* Talbot

#### **Leeaceae**

- *Leea talbotii* King ex Talbot

#### **Liliaceae**

- *Chlorophytum bharuchae* Ansari, Raghavan & Hemadri
- *Iphigenia magnifica* Ansari & Rao
- *Iphigenia sahyadrica* Ansari & Rao

#### **Malvaceae**

- *Abelmoschus manihot* (L.) Medik. subsp. *tetraphyllus* (Roxb.ex Horn.) Borss. var. *megaspermus* Hemadri

#### **Meliaceae**

- *Aglaia talbotii* Sundararagh.

#### **Olacaceae**

- *Strombosia leprosa* Talbot

#### **Orchidaceae**

- *Coelogyne schultesii* S.K. Jain & Das

#### **Poaceae**

- *Arthraxon junnarensis* Jain & Hemadri
- *Arthraxon lanceolatus* (Roxb.) Hochst. var. *lanceolatus*
- *Arthraxon lancifolius* (Trin) Hochst. var. *hindustanicus* Jain & Deshpande
- *Arthraxon raizadae* Jain, Hemadri & Deshpande
- *Bothriochloa jainii* Deshpande & Hemadri

- *Capillipedium megdalenii* Almeida
- *Isachne borii* Hemadri
- *Isachne swaminathanii* V. Prakash & S.K. Jain
- *Ischaemum raizadae* Hemadri & Billore
- *Manisuris forficulata* C.E.C. Fischer & Clayton
- *Manisuris goaensis* Rao & Hemadri
- *Manisuris mysorensis* Jain & Hemadri
- *Manisuris ratnagirica* Kulk. & Hemadri

#### **Rubiaceae**

- *Lasianthus sessilis* Talbot
- *Psychotria canarensis* Talbot
- *Psychotria flavida* Talbot
- *Psychotria octosulcata* Talbot
- *Tarenna agumbensis* Sundararagh.

#### **Symplocaceae**

- *Symplocos kanarana* Talbot

#### **Zingiberaceae**

- *Zingiber diwakarianum* R.Kr. Singh

#### **SYNTYPES**

#### **Acanthaceae**

- *Strobilanthes membranaceus* Talb.

#### **Apiaceae**

- *Trachyspermum stictocarpum* (C.B. Clarke) Wolff

#### **Asclepiadaceae**

- *Marsdenia lanceolata* T. Cooke

#### **Celastraceae**

- *Salacia talbotii* Gamble

#### **Cyperaceae**

- *Fimbristylis woodrowii* C.B. Clarke

#### **Euphorbiaceae**

- *Euphorbia katrajensis* Gage
- *Phyllanthus talbotii* Sedgwick

#### **Leguminosae – Papilionoideae**

- *Eleiotis trifoliolata* T. Cooke
- *Spatholobus purpureus* Benth.

#### **Lamiaceae**

- *Leucas angustissima* Sedgw.

#### **Meliaceae**

- *Dysoxylum glandulosum* Talbot

#### **Moraceae**

- *Ficus talbotii* King

#### **Poaceae**

- *Andropogon paranjpyeanus* Bhide
- *Cynodon barberi* Rang. & Tad.
- *Manisuris acuminata* (Hack.) O.K. var. *woodrowii* Bor

#### **Rubiaceae**

- *Lasianthus sessilis* Talbot

#### **NEOTYPES**

#### **Amaryllidaceae**

- *Pancratium sanctae-mariae* Blatter & Hallberg

#### **Apiaceae**

- *Trachyspermum stictocarpum* (C.B. Clarke) Wolff

## ISONEOTYPE

### Asparagaceae

- *Drimia razii* Ansari

## TYPE PHOTOS

### Asteraceae

- *Helichrysum wightii* C.B. Clarke ex Hook.f.

### Celastraceae

- *Gymnosporia puberula* Laws

## TYPES

### Apiaceae

- *Pimpinella katrajensis* Rao & Hemadri

### Araceae

- *Arisaema sivadasanii* S.R. Yadav, Patil & Jan.

### Asclepiadaceae

- *Seshagiria sahyadrica* Ansari & Hemadri
- *Marsdenia lanceolata* T. Cooke

### Balsaminaceae

- *Impatiens talbotii* Hooker

### Cyperaceae

- *Cyperus pentabracteatus* Govind. & Hemadri

### Lamiaceae

- *Leucas deodikarii* Billore & Hemadri

### Liliaceae

- *Camptorrhiza indica* Yadav, Singh & Mathew



- *Chlorophytum bharuchae* Ansari, Raghavan & Hemadri

#### **Loranthaceae**

- *Loranthus gibbosus* Talbot
- *Taxillus danserana* Rajasekaran

#### **Malvaceae**

- *Abutilon ranadei* Woodrow & Stapf

#### **Myrtaceae**

- *Eugenia kanarensis* Talbot

#### **Orchidaceae**

- *Dendrobium mabelae* Gammie

#### **Poaceae**

- *Arthraxon lancifolius* ( Trin) Hochst. var. *hindustanicus* Jain & Deshpande
- *Arthraxon satarensis* Almeidemend, Deshpande & Hem.
- *Isachne mysorensis* Sundararagh.