

Rajib Gogoi, CNH

**06.07.2005 ---19.01.2010 : Botanical Assistant,
ERC, Shillong**

**21.01.2010---31.12.2013 : Scientist-C, APCR,
Itanagar**

**01.01.2014---15.05.2015 : Scientist-D, APCR,
Itanagar**

**18.05.2015---present : Scientist-D, CNH,
Howrah**

MACROPHYTIC DIVERSITY OF DEEPAR
BEEL WITH SPECIAL REFERENCE TO
SEASONAL VARIATION

Thesis
submitted to the Gauhati University for fulfillment of the Degree
of Doctor of Philosophy (Ph.D.) in Botany under the Faculty of
Science



By
Rajib Gogoi
Department of Botany
Gauhati University
2006

Worked as a Research Student in Gauhati University under the Ph.D programme to work out the *'Macrophytic Diversity of Deepar Beel with special reference to Seasonal variation'* from 06.09.2001 to June' 2005, for which Ph.D Degree was awarded from Gauhati University on 17th July' 2007.

The flora contains 435 angiospermic plants and 13 species of pteridophytes, out of total 448 species, dicotyledons represent 65.62%, monocotyledons represent 31.47% and pteriphoytes represent 2.9% Of the flora.

“ Flora of Dzuko Valley and Surrounding Hills”

jointly with Dr. A. A. Mao, SC-F
(2008-2009)



Systematic account of
333 species belonging to
119 families and 236
genera

Including Pteridophytes
(19 families, 24 genera
and 31 species),
Gymnosperm (2
families, 2 genera and 2
species), Dicotyledons
(82 families, 163 genera
and 238
species) and
Monocotyledons (16
families, 47 genera and
62 species)

Flora of India
Series-2

FLORA OF MANIPUR
Volume-III
(Monocots excluding Orchidaceae)



BOTANICAL SURVEY OF INDIA

➤ FLORA of Manipur vol. III
(Monocots excluding
Orchidaceae)
(2009-2011)

Documented 436 Species & 4
varieties of 221 genera from
36 families

FLORA OF ANJAW DISTRICT, ARUNACHAL PRADESH 2010-2013

Field tours: 5 (Five)

Field nos. collected: 1901

New species described: 5 (Five)

New addition to India : 5 (five)

Total species documented :

715 species out of 326 genera

& 100 families



Flora of Lohit District & Kamlang WLS

Rajib Gogoi & Souravjyoti Borah

(2013-2014)

2 fieldwork conducted

(ca. 500 field nos)

NEW TAXA PUBLISHED (12)

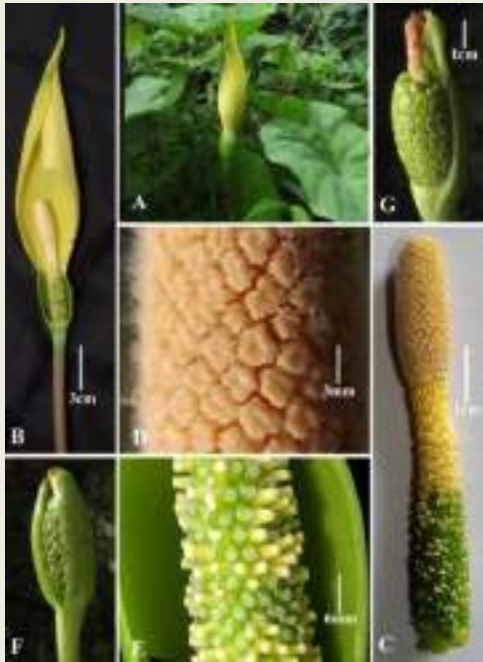
- Colocasia boyceana* Gogoi & Borah (Araceae)
Colocasia dibangensis Gogoi & Borah (Araceae)
Musa argentii Gogoi & Borah (Musaceae)
Musa markkui Gogoi & S. Borah
Musa puspanjaliae Gogoi & Hakkinen
Musa kamengensis Gogoi & Hakkinen
Musa nagalandiana S. Dey & Gogoi
Phanera glauca Benth. subsp. *tenuiflora* (Watt ex C.B. Clarke) A. Schmitz var. *gandhiana* Gogoi & Bandyop.
Musa mannii var. *namdangensis* Gogoi & Borah
Musa aurantiaca Baker var. *homenborgohainiana* Gogoi
Musa aurantiaca Baker var. *jengingensis* Gogoi



NEW ADDITION FOR INDIA (2)

- Musa nagensium* var. *hongii* Hakkinen
Tricarpelema chinensis Hong





Colocasia boyceana Gogoi & Borah



Musa nagalandiana
S.Dey & R. Gogoi



Musa argentii Gogoi & Borah



Musa puspanjalie
Gogoi & Hakkinen

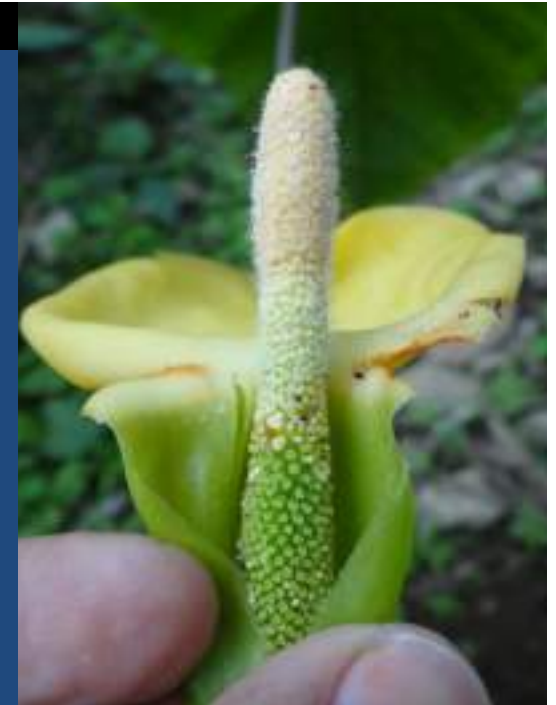
REDISCOVERY AFTER MORE THEN 50 YEARS (4 spp.)

Justicia anfractuosa C.B. Clarke (Acanthaceae)

Musa cheesmanii N. W. Simmonds (Musaceae)

Musa flaviflora N. W. Simmonds (Musaceae)

Rhododendron wattii Cowan (Ericaceae)



On Going Projects

➤ Study of *Impatiens* L. (Balsaminaceae) of Arunachal Pradesh (2013-2017)

- 120 field numbers collected
- ca. 6000 specimens studied
- 55 species documented during the study (Fol 23 spp.)
- Report is in the final phase for submission



➤ Flora of Bihar & Jharkhand Vol. – II (2015-2017) Contributor for few families

Study of *Impatiens* L. (Balsaminaceae) of Arunachal Pradesh

NEW SPECIES : **13 spp.**

- Impatiens siangensis* Gogoi
- Impatiens paramjitiana* Gogoi & Borah
- Impatiens siangensis* Gogoi
- Impatiens paramjitiana* Gogoi & Borah
- Impatiens dalaiensis* Gogoi & Borah
- Impatiens adamowskiana* Gogoi & Borah
- Impatiens ashihoi* Gogoi & Borah,
- Impatiens pathakiana* Gogoi & Borah,
- Impatiens lohitensis* R. Gogoi & S. Borah
- Impatiens adamowskiana* Gogoi & Borah
- Impatiens pseudocitrina* Hareesh, M.Sabu & Gogoi
- Impatiens albobetala* Gogoi & Borah
- Impatiens dibangensis* Gogoi & Borah

NEW ADDITION TO INDIA : **7 spp.**

- Impatiens sicutifer* Hook.f.
- Impatiens fugongensis* K.M.Liu & Y.Y.Cong
- Impatiens xanthina* H. F. Comber
- Impatiens toppinii* Dunn
- Impatiens parkinsonii* C.E.C. Fisch
- Impatiens fugongensis* K.M. Liu & Y. Y.Cong
- Impatiens toppinii* Dunn



SPECIES COLLECTED AFTER 50 YEARS

Impatiens toppinii Dunn

Impatiens porrecta Hook.f.

Impatiens parkinsonii C.E.C. Fisch.

Impatiens khasiana Hook.f.

Impatiens racemulosa Wall. ex Hook.f. & Thomson

Impatiens prainii Hook.f.

Impatiens laevigata var. *grandifolia* Hook.f.



LATER HOMONYME RESOLVED

Impatiens nicolsoniana Gogoi & Arisdason

Impatiens kanchigandhiana Rasingam, Karthig. & Gogoi

LECTOTYPIFICATION designated

Impatiens toppinii Dunn

Impatiens parkinsonii C.E.C. Fisch.

Impatiens khasiana Hook.f.

Impatiens racemulosa Wall. ex Hook.f. & Thomson

Impatiens trilobata Colebrooke

Impatiens tripetala Roxb. ex DC





Impatiens lohitensis Gogoi & Borah



Impatiens pathakiana Gogoi & Borah



Impatiens pseudo-citrina Hareesh,
M.Sabu & Gogoi



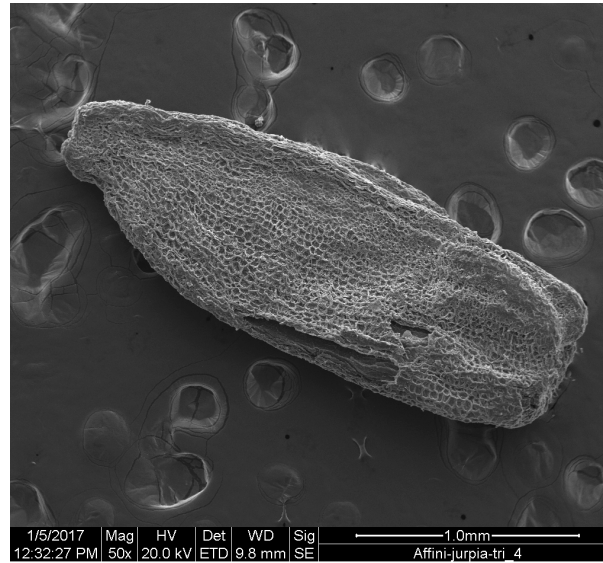
Impatiens adamowskiana Gogoi & Borah



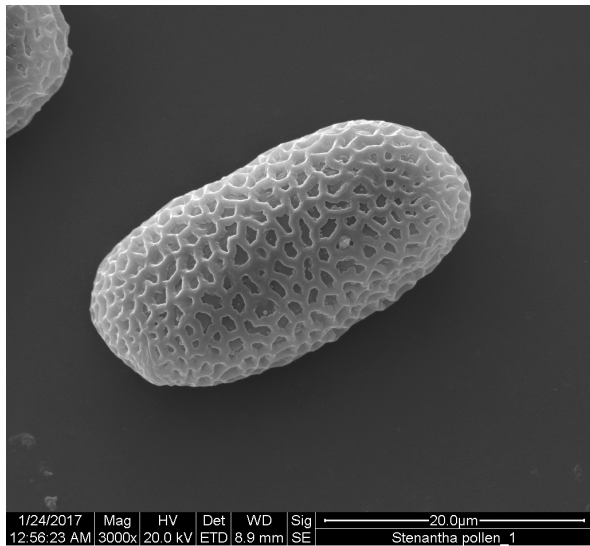
Impatiens paramjitiana Gogoi & Borah



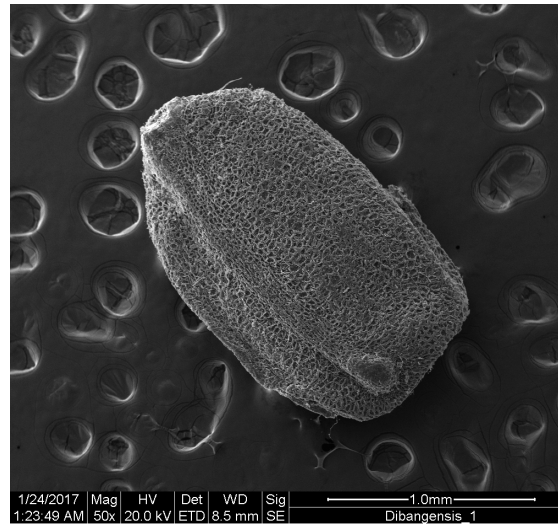
Impatiens albopetala Gogoi & Borah



Impatiens jurpia



I. stenantha (pollen)



I. dibangensis (seeds)

Flora of Bihar & Jharkhand Vol. – II

(2015-2017)

Families allotted:

Sphenocleaceae, Lobeliaceae,
Plumbaginaceae, Myrsinaceae,
Sapotaceae, Stylidiaceae,
Campanulaceae, Vacciniaceae,
Primulaceae, Theophrastaceae
(c. 37 spp. for 2015-2017)

The description part of the species are completed and key is to be prepared to submit the final manuscript.

EIA Study

“Rapid EIA study of RABINDRA SAROBAR LAKE” as desired by
Honourable EASTERN ZONE NATIONAL GREEN TRIBUNAL
OA No.136/2016/EZ

- 3 (Three) field tours conducted, collected 170 field numbers.
- Recorded ca. 200 spp. Of Higher plants
- 10 spp. of Algae identified
- 12 spp. of Fungi identified



➤ **International Collaboration :**

Markku Häkkinen (Finland):----- 5 papers

Wojciech Adamowski (Poland)---- 4 papers

Sheng Xiang Yu (China)----- 2 papers

Henry Väre (Finland)-----1 paper

➤ **FLORA OF CHINA**

Impatiens tianlinensis (Balsaminaceae), a new species from Guangxi, China

➤ **FLORA OF MADAGASCAR**

Impatiens kanchigandhiana Rasingam, Karthig. & Gogoi

Replaced name:—*Impatiens nasuta* H. Perrier (1949: 14), non *I. nasuta* Hooker (1908: 263).

Determination History:				
Scientific Name	Determiner	Determination Date	Type of?	Determination Notes
<i>Impatiens tibet</i> Hook.f.	Gogoi, R.	11/08/20	✓	
<i>Impatiens tubaeformis</i> Hook.f.				Author citation as in label: Hib

Citation:

Cite as: <http://specimens.kew.org/herbarium/K000894657>

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Book published : **1 (jointly)**

Book chapter : **5**

Scientific papers : **76**

New Taxa described : **25**

New addition for India : **10**

Rediscovery: **6**

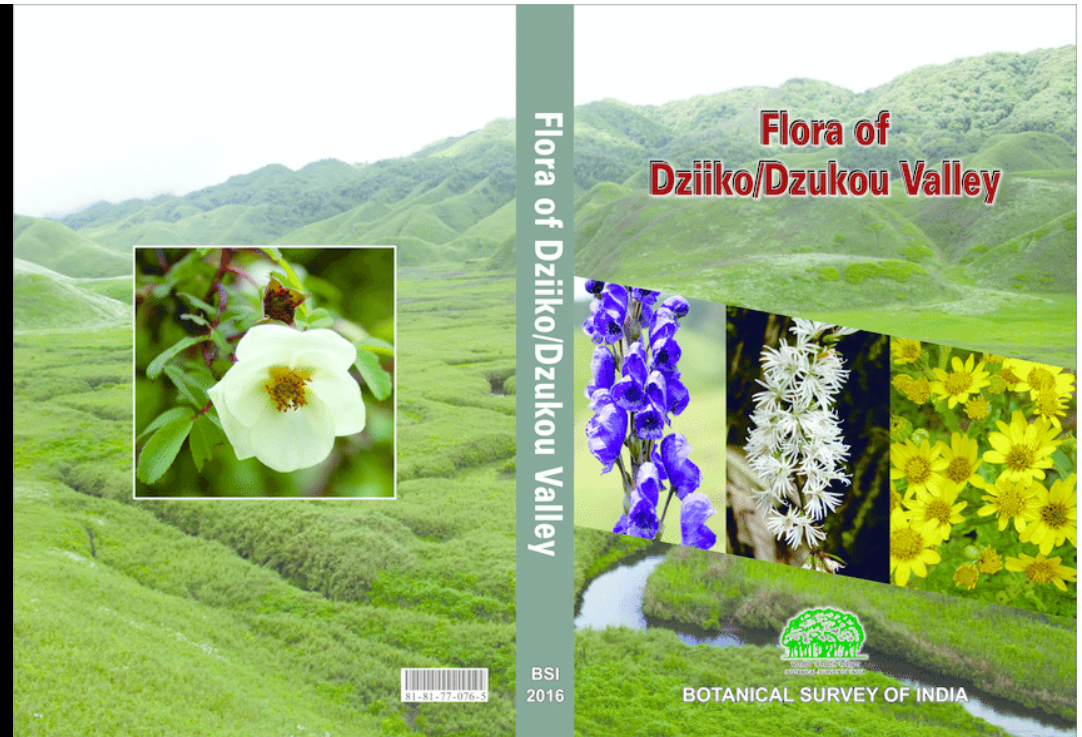
Reduced to synonyme : **4**

Invited lecture : **7**

Paper published in Top Journals : **TAXON-1, NORDIC J. BOTANY -6, PHYTOTAXA -9
EDINBURGH J. B O T A N Y-1, TELOPEA-4, CURRENT SCIENCE-4, WEBBIA-2,
NELUMBO-1, BJPT-1, J. JAPANESE BOTANY-2, J. BOT. RES. INST. TEXAS -1**

Thomson Reuters (SCI, SCIE) : 21

Reviewer for : **PHYTOTAXA, NORDIC J BOTANY, TELOPEA, TAIWANIA,
CHECKLIST, JOURNAL OF CAVE AND KARST STUDIES, JOURNAL OF
THE GEOLOGICAL SOCIETY OF INDIA, INTERNATIONAL JOURNAL OF
EARTH SCIENCE AND ENGINEERING, THE PALAEOBOTANIST,
QUATERNARY INTERNATIONAL**



FUTURE PLAN

- Complete Taxonomic documentation(with full colored illustrations) of *Impatiens* L. (Balsaminaceae) of Northeast India (Phase – II : Sikkim & Darjeeling Himalaya)
- Study of Molecular phylogeny of Balsaminaceae in Northeast India.

A photograph of a dense forest of tall, thin trees, likely pines or cypresses, with green foliage. The trees are arranged in a somewhat regular pattern, creating a sense of depth. The ground is covered in green grass and small plants. The sky is visible through the canopy, showing a clear blue color. The text "THANK YOU" is overlaid in the center of the image in a bold, yellow, serif font.

THANK YOU