

# Presentation For Annual Scientific Meet-2017

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Publication Section [Hqrs.]

Botanical Survey of India

Kolkata-64

# **STUDIES ON THE FAMILY NYCTAGINACEAE IN INDIA**

**Debasmita Dutta Pramanick**  
**Ex-Research Fellow,**  
**“Flora of India” project**  
**Botanical Survey of India**

## **BRIEF SUMMARY:**

- **Genera** :06
- **Species** :14
- **Study of anthocarp morphology**
- **Study of pollen morphology**
- **Study of leaf architectural pattern**

# ANNUAL ACTION PLAN PROJECT

- **FLORA OF UTTARAKHAND (VOL. IV.)  
(2014-2015)**

Family: Nyctaginaceae, Moraceae, Piperaceae, Ulmaceae, Saurauraceae, Buxaceae, Daphniphyllaceae and cannabaceae

**Dr. S. K. Srivastava, Sci- 'D'**

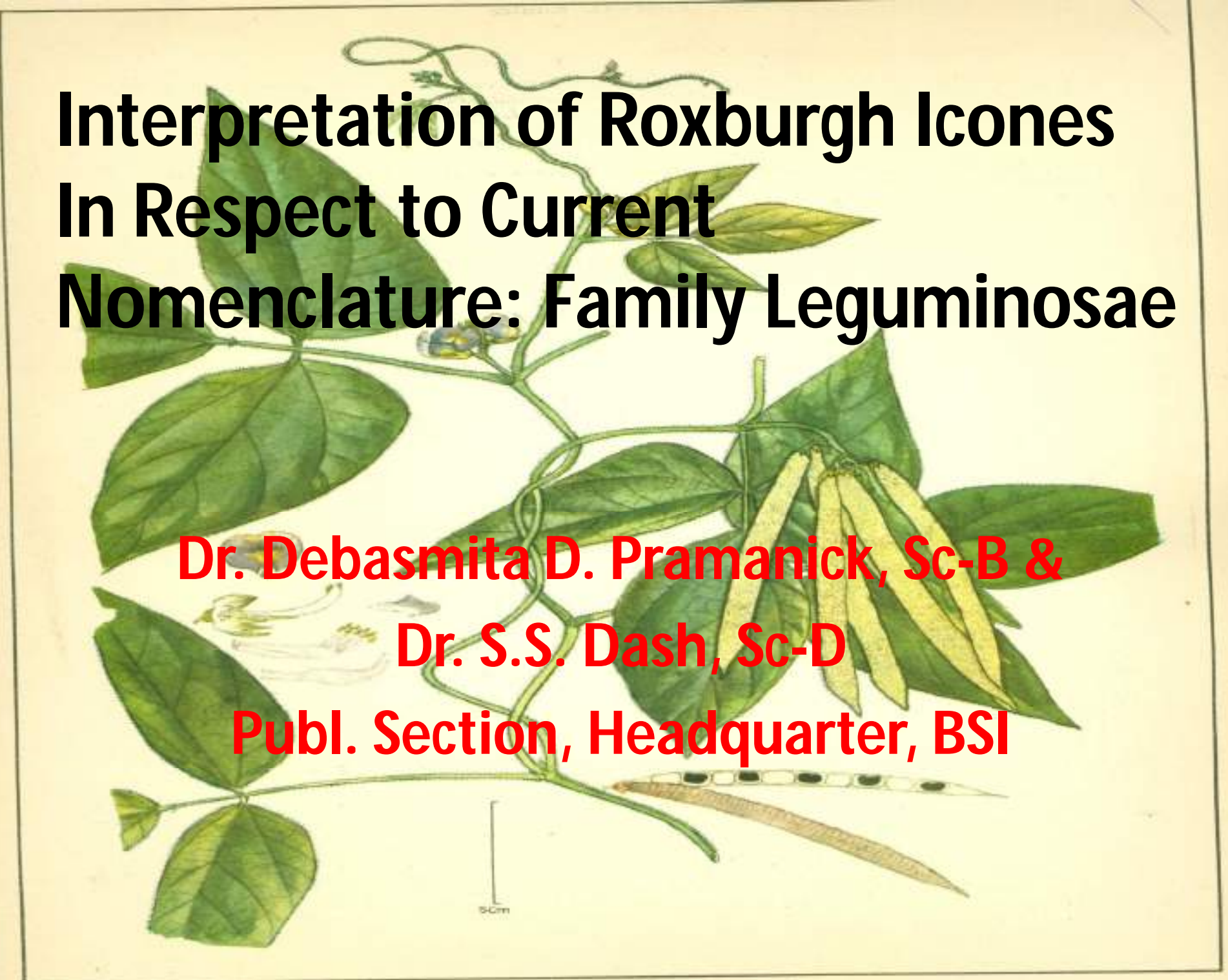
**&**

**Dr. Debasmita Dutta Pramanick, Bot. Asst.**

- Total no. of genera: **17**
- Total no. of taxa documented: **72**
- Herbarium Consultation tour: **01 (CAL)**
- Total no. of specimens studied in CAL: **165**
- Total no. of herbarium specimens reconfirmed/determinavit at CAL: **44**
- Mss submitted

# Interpretation of Roxburgh Icones In Respect to Current Nomenclature: Family Leguminosae

Dr. Debasmita D. Pramanick, Sc-B &  
Dr. S.S. Dash, Sc-D  
Publ. Section, Headquarter, BSI



VIGNA PILOSA (Roxb.) Baker  
(*Dolichos pilosus* Roxb.)

## The Family Leguminosae (*Fabaceae nom. alt.*)

- **Common name:** 'Pea family' or 'Legume family'
- **Third** largest family of flowering plants
- **627** genera and over **19,347** species worldwide
- In India, over **1200** species under **199** genera
- Economic importance: Vegetable protein, forages, green manure etc



# Icones Roxburghianae

## What is Icones Roxburghianae:

A collection of plates prepared by Willium Roxburgh with accompanying text from his "Flora Indica" and "Plant of Coromandel Coast".

- Total no. of plate in Icones Roxburghianae : **2533**
- Total no. of Leguminous plate : **231**



# Why taxonomic interpretation is necessary

- A large no. of leguminous taxa illustrated in Roxb. Icone have either been merged or splitted taxonomically time to time.
- Correct nomenclatural interpretation of leguminous species is necessary as per current ICN.
- Essenciality of correct database of plant names.

## **Work Done**

- **Listing of Leguminous taxa from Roxburgh Icone**
- **Listing of Leguminous taxa from Authentic literature**
- **Nomenclatural interpretation done for 134 entries in Roxburgh Icone**
- **Description, phenology, local names, habitat, distribution, uses**
- **Study of Herbarium specimens deposited in CAL & BSIS**

# Nomenclatural interpretation

done :

- **Adenanthera: 02**
- **Aeschynomene: 07**
- **Arachis: 02**
- **Bauhinia: 15**
- **Butea: 03**
- **Caesalpinia: 12**
- **Cassia: 09**

contd.

- **Cicer:** 01
- **Clitoria:** 01
- **Crotalaria:** 28
- **Dalbergia:** 16
- **Dolichos:** 21
- **Erythrina:** 07
- **Flemingia:** 07
- **Glycine:** 02
- **Hardwickia:** 01

## ADMINISTRATIVE WORK DONE:

- Performed duties as a member of special investigation committee in NRC, BSI.
- Performed duties as Drawing and Disbursing Officer (DDO), BSI, Headquarter on 10<sup>th</sup>-12<sup>th</sup> March, 2016.

- **No. of Projects carried out** : **03**
- **No. of Books compiled & edited** : **01**
- **No. of Papers published** : **16**
- **No. of Papers reviewed** : **02**

**THANK YOU**