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**NOTE**

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Rhynchotechum parviflorum Blume (Gesneriaceae): a new record to mainland India

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The genus Rhynchotechum Blume is a group of understory shrubs distributed in southeastern and eastern Asia, from India to Japan (Odyuo & Roy 2017). It is characterised by having opposite to alternate leaves, pink flowers arranged in cymose inflorescences and white indehiscent berries. It has recently been revised by Anderson & Middleton (2013) who recognized a total of 16 species, of which nine are distributed in India namely (R. alternifolium C.B.Clarke, R. calycinum C.B.Clarke, R. ellipticum (Wall. ex D.Dietr.) A.DC., R. gracile B.M. Anderson, R. hookeri (C.B.Clarke) B.M.Anderson, R. obovatum (Griff.) B.L.Burtt, R. parviflorum Blume, R. permolle (Nees) B.L.Burtt, and R. vestitum (Griff.) Wall. ex C.B.Clarke) from which seven (with the exception of R. parviflorum and R. permolle) are from northeastern India.

Arunachal Pradesh, the largest state in northeastern India covering an area of 83,743km², has the second largest forest cover (67,248km²) in the country (Gurung et al. 2003). The state falls under the continuous belt of Himalaya extending from the plains of Assam to the steppe rugged alpine mountainous belts neighbouring Tibet and Bhutan. Recent studies on the family Gesneriaceae of the state have led to the publication of several new species such as Boeica clarkei Hareesh et al. (2018), Didymocarpus moellerii A. Joe et al. (2016: 57), Lysionotus bijantiae D. Borah & A. Joe (2018: 232), and L. gamosepalus W.T. Wang (1983) var. biflorus A. Joe et al. (2017: 337). Rhynchotechum is known in the state by all the five species present in northeastern India except for R. hookeri (distributed in Assam, in almost opposite boundary neighbouring West Bengal and Bangladesh) and R. gracile (known from previous Assam, which consisted most of the northeastern states also Arunachal Pradesh, the locality of the type collection is unknown, and hence its distribution in Arunachal Pradesh is doubtful) (Anderson & Middleton 2013). Even a new species of Rhynchotechum (under press) is also found from the state. The genus has very little economic importance owing to its congeners in the family, though plants under this genus are known to have some ethnobotanical uses (Kayang 2007). Considering the richness in diversity, the state has high potential for discovery of both new species and records for the region.
Adi-Komkar tribe in Upper Siang District of Arunachal Pradesh, an interesting specimen of *Rhynchotechum* was collected. After study of different literature (Clarke 1874, 1884; Wang et al. 1998; Anderson & Middleton 2013; Sinha & Datta 2016; Odyuo & Roy 2017; Roy et al. 2019), and consultation of herbarium specimen housed at different herbaria (CAL, ARUN, ASSAM, K, E, PE), it was identified as *R. parviflorum*, the type species of the genus known previously from Myanmar, Thailand, Vietnam, China, Sumatra, Kalimantan, Sulawesi, Indonesian New Guinea, Papua New Guinea, Philippines, and Nicobar Islands of India. The presence of this species in the state is not unexpected, considering its distribution in the neighbouring countries. As there is no record of this species from mainland India, the authors hereby report the newly collected specimen as the first authentic distribution record of *R. parviflorum* in mainland India.

*Rhynchotechum parviflorum* Blume,


Subshrubs, branched or unbranched; stems 30–150 cm tall, 0.5–1.2 cm diameter. Leaves opposite, to sub-opposite; petiole 1.9–5 cm long, glabrous, green; blade broadly elliptic to obovate, 16–27 cm × 8–13 cm, apex acute, base narrowly cuneate to cuneate, margin crenate, adaxially dark green glabrescent, abaxially pale yellow, rusty woolly at young stage, glabrescent when mature, brown pubescent on veins; mid vein channelled, impressed above, raised below, lateral veins opposite to sub-opposite, 12–24 pairs. Inflorescence green to rusty brown, 1.5–3 cm long, 1–2 branched, rusty villous; bracts widely subulate, pinkish, slightly membranous, rusty pubescent to glabrous; pedicel 4–7 mm, villous; calyx greenish to pinkish-brown, lobes triangular with apices rounded 6–8 mm × 1–1.5 mm, villous; corolla glabrous, pink, zygomorphic with a dark purple spot in the base, tube short upper lobes 1–1.2 × 0.8–1 mm, oblong, apex rounded, lower lobes 1–1.5 × 1–1.2 mm, stamens inserted at the base of the tube, filaments 0.5–1 mm, anthers 1 mm across, ovary 1 × 1 mm, shortly puberulent; style white, 3–5 mm long, stigma white, truncate. Berries not seen.

Phenology: Flowering May–June

Note: *Rhynchotechum parviflorum* is nearly similar to *R. calycinum* and *R. hookeri* in having oblanceolate to elliptic ovate leaves, short fascicled inflorescence and sericeous pedicel whereas differs in having villous calyx lobes (vs. glabrous in *R. calycinum*), puberulent and shorter style (vs. glabrous to pubescent and longer style in *R. hookeri*).

Ethnobotany: Tender shoots are eaten raw; Jongkot (Adi-Komkar)

Ecology and distribution: It usually prefers cliffs near perennial streams in primary forests as well as in secondary forests and damp groves near roadsides. It grows in association with *Diplazium esculentum, Lysionotus bijantiae, Henckelia pumila, Boeica clarkei, Rhynchotechum vestitum, Pilea insolens, Pilea umbrosa, Mycetia mukerjiana, Cyclosorus parasiticus, Strobilanthes hamiltoniana, Justicia sp.* etc.

Conservation status: Least Concern.


Type: Java, Seribu mountains, Blume s.n. [barcode: 0834014]
Rhynchotechum parviflorum new record to mainland India

Taram et al.

References


Image 3. Herbarium sheet of Rhynchotechum parviflorum Blume (5068 (HAU)).
A citizen science approach to monitoring of the Lion *Panthera leo* (Carnivora: Felidae) population in Niokolo-Koba National Park, Senegal


Status, distribution, threats, and conservation of the Ganges River Dolphin *Platanista gangetica* (Mammalia: Artiodactyla: Cetacea) in Nepal


Bat (Mammalia: Chiroptera) diversity, dominance, and richness in the southwestern region of Bhutan with three new records for the country

— Sangay Tshering, Dhan Bahadur Gurung, Karma Sherub, Sumit Dookia, Kuenzang Dorji & Pema Choephyel, Pp. 15114–15128

The pattern of waterbird diversity of the trans-Himalayan wetlands in Changthang Wildlife Sanctuary, Ladakh, India

— Pushpinder Singh Jamwal, Shivam Shrotriya & Jigmet Takpa, Pp. 15129–15139

Composition, diversity and foraging guilds of avifauna in agricultural landscapes in Panipat, Haryana, India

— Parmesh Kumar & Sharmila Sahu, Pp. 15140–15153

An overview of fishes of the Sundarbans, Bangladesh and their present conservation status

— Kazi Ahsan Habib, Amit Kumer Neogi, Najmun Nahar, Jina Oh, Youn-Ho Lee & Choong-Gon Kim, Pp. 15154–15172

Digital image post processing techniques for taxonomic publications with reference to insects

— Nikhil Joshi, Hemant Gathe & Sameer Padhye, Pp. 15173–15180

Description of a new species of the genus *Lampropsephus* Fleutiaux, 1928 (Coleoptera: Elateridae: Elaterinae: Dicrepidiini) from Konkan, Maharashtra, India

— Amol Patwardhan & Rahul Khot, Pp. 15181–15185

Spiders (Arachnida: Araneae) from the vicinity of Araabath Lake, Chennai, India

— John T.D. Caleb, Pp. 15186–15193

Two new records of gilled mushrooms of the genus *Amanita* (Agaricales: Amanitaceae) from India


A first record of oviposition of Common Onyx *Horaga onyx* Moore, 1857 (Insecta: Lepidoptera: Lycaenidae) in Sri Lanka and its importance in conserving a highly threatened butterfly

— Chathura Udayanga Herath, Pavan Bopitiya Gamage, Iroshan Rupasinghe & Moditha Hiranya Kodikara Arachchi, Pp. 15201–15204

Additions to known larval host plants of butterflies of the Western Ghats, India

— Deepak Naik & Mohammed S. Mustak, Pp. 15205–15207

*Rhynchotechum parviflorum* Blume (Gesneriaceae): a new record to mainland India

— Momang Taram, Puranjoy Mipun & Dipankar Borah, Pp. 15208–15211

Re-collection of the Luminous Lantern Flower *Ceropegia lucida* Wall. (Apocynaceae) from Assam, India

— Debolina Dey, Manash Baruah, Nilakshee Devi & Jitendra Nath Borah, Pp. 15212–15215

*Tetrasporidium javanicum* Möbius (Chlorophyta), a rare species recorded from Arpa River in Bilaspur, Chhattisgarh, India

— Rakesh Kumar Dwivedi, Pp. 15216–15218