

Building evidence for conservation globally

Journal of Threatened TAXA



10.11609/jott.2022.14.8.21487-21750
www.threatenedtaxa.org

26 August 2022 (Online & Print)
14(8): 21487-21750
ISSN 0974-7907 (Online)
ISSN 0974-7893 (Print)

Open Access





ISSN 0974-7907 (Online); ISSN 0974-7893 (Print)

Publisher
Wildlife Information Liaison Development Society
www.wild.zooreach.org

Host
Zoo Outreach Organization
www.zooreach.org

No. 12, Thiruvannamalai Nagar, Saravanampatti - Kalapatti Road, Saravanampatti,
Coimbatore, Tamil Nadu 641035, India

Ph: +91 9385339863 | www.threatenedtaxa.org

Email: sanjay@threatenedtaxa.org

EDITORS

Founder & Chief Editor

Dr. Sanjay Molur

Wildlife Information Liaison Development (WILD) Society & Zoo Outreach Organization (ZOO),
12 Thiruvannamalai Nagar, Saravanampatti, Coimbatore, Tamil Nadu 641035, India

Deputy Chief Editor

Dr. Neelesh Dahanukar

Noida, Uttar Pradesh, India

Managing Editor

Mr. B. Ravichandran, WILD/ZOO, Coimbatore, India

Associate Editors

Dr. Mandar Paingankar, Government Science College Gadchiroli, Maharashtra 442605, India

Dr. Ulrike Streicher, Wildlife Veterinarian, Eugene, Oregon, USA

Ms. Priyanka Iyer, ZOO/WILD, Coimbatore, Tamil Nadu 641035, India

Dr. B.A. Daniel, ZOO/WILD, Coimbatore, Tamil Nadu 641035, India

Editorial Board

Dr. Russel Mittermeier

Executive Vice Chair, Conservation International, Arlington, Virginia 22202, USA

Prof. Mewa Singh Ph.D., FASC, FNA, FNASC, FNAPsy

Ramanna Fellow and Life-Long Distinguished Professor, Biopsychology Laboratory, and
Institute of Excellence, University of Mysore, Mysuru, Karnataka 570006, India; Honorary
Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore; and Adjunct
Professor, National Institute of Advanced Studies, Bangalore

Stephen D. Nash

Scientific Illustrator, Conservation International, Dept. of Anatomical Sciences, Health Sciences
Center, T-8, Room 045, Stony Brook University, Stony Brook, NY 11794-8081, USA

Dr. Fred Pluthero

Toronto, Canada

Dr. Priya Davidar

Sigur Nature Trust, Chadapatti, Mavinhalla PO, Nilgiris, Tamil Nadu 643223, India

Dr. Martin Fisher

Senior Associate Professor, Battcock Centre for Experimental Astrophysics, Cavendish
Laboratory, JJ Thomson Avenue, Cambridge CB3 0HE, UK

Dr. John Fellowes

Honorary Assistant Professor, The Kadoorie Institute, 8/F, T.T. Tsui Building, The University of
Hong Kong, Pokfulam Road, Hong Kong

Prof. Dr. Mirco Solé

Universidade Estadual de Santa Cruz, Departamento de Ciências Biológicas, Vice-coordenador
do Programa de Pós-Graduação em Zoologia, Rodovia Ilhéus/Itabuna, Km 16 (45662-000)
Salobrinho, Ilhéus - Bahia - Brasil

Dr. Rajeev Raghavan

Professor of Taxonomy, Kerala University of Fisheries & Ocean Studies, Kochi, Kerala, India

English Editors

Mrs. Mira Bhojwani, Pune, India

Dr. Fred Pluthero, Toronto, Canada

Mr. P. Ilangoan, Chennai, India

Web Development

Mrs. Latha G. Ravikumar, ZOO/WILD, Coimbatore, India

Typesetting

Mr. Arul Jagadish, ZOO, Coimbatore, India

Mrs. Radhika, ZOO, Coimbatore, India

Mrs. Geetha, ZOO, Coimbatore India

Fundraising/Communications

Mrs. Payal B. Molur, Coimbatore, India

Subject Editors 2019–2021

Fungi

Dr. B. Shivaraju, Bengaluru, Karnataka, India

Dr. R.K. Verma, Tropical Forest Research Institute, Jabalpur, India

Dr. Vatsavaya S. Raju, Kakatiya University, Warangal, Andhra Pradesh, India

Dr. M. Krishnappa, Jnana Sahyadri, Kuvempu University, Shimoga, Karnataka, India

Dr. K.R. Sridhar, Mangalore University, Mangalagangothri, Mangalore, Karnataka, India

Dr. Gunjan Biswas, Vidyasagar University, Midnapore, West Bengal, India

Plants

Dr. G.P. Sinha, Botanical Survey of India, Allahabad, India

Dr. N.P. Balakrishnan, Ret. Joint Director, BSI, Coimbatore, India

Dr. Shonil Bhagwat, Open University and University of Oxford, UK

Prof. D.J. Bhat, Retd. Professor, Goa University, Goa, India

Dr. Ferdinando Boero, Università del Salento, Lecce, Italy

Dr. Dale R. Calder, Royal Ontario Museum, Toronto, Ontario, Canada

Dr. Cleofas Cervancia, Univ. of Philippines Los Baños College Laguna, Philippines

Dr. F.B. Vincent Florens, University of Mauritius, Mauritius

Dr. Merlin Franco, Curtin University, Malaysia

Dr. V. Irudayaraj, St. Xavier's College, Palayamkottai, Tamil Nadu, India

Dr. B.S. Kholia, Botanical Survey of India, Gangtok, Sikkim, India

Dr. Pankaj Kumar, Kadoorie Farm and Botanic Garden Corporation, Hong Kong S.A.R., China

Dr. V. Sampath Kumar, Botanical Survey of India, Howrah, West Bengal, India

Dr. A.J. Solomon Raju, Andhra University, Visakhapatnam, India

Dr. Vijayasankar Raman, University of Mississippi, USA

Dr. B. Ravi Prasad Rao, Sri Krishnadevaraya University, Anantpur, India

Dr. K. Ravikumar, FRLHT, Bengaluru, Karnataka, India

Dr. Aparna Watve, Pune, Maharashtra, India

Dr. Qiang Liu, Xishuangbanna Tropical Botanical Garden, Yunnan, China

Dr. Noor Azhar Mohamed Shazili, Universiti Malaysia Terengganu, Kuala Terengganu, Malaysia

Dr. M.K. Vasudeva Rao, Shiv Ranjani Housing Society, Pune, Maharashtra, India

Prof. A.J. Solomon Raju, Andhra University, Visakhapatnam, India

Dr. Mandar Datar, Agharkar Research Institute, Pune, Maharashtra, India

Dr. M.K. Janarthanam, Goa University, Goa, India

Dr. K. Karthikeyan, Botanical Survey of India, India

Dr. Errol Vela, University of Montpellier, Montpellier, France

Dr. P. Lakshminarasimhan, Botanical Survey of India, Howrah, India

Dr. Larry R. Noblick, Montgomery Botanical Center, Miami, USA

Dr. K. Haridasan, Pallavur, Palakkad District, Kerala, India

Dr. Analinda Manila-Fajard, University of the Philippines Los Banos, Laguna, Philippines

Dr. P.A. Sinu, Central University of Kerala, Kasaragod, Kerala, India

Dr. Afroz Alam, Banasthali Vidyapith (accredited A grade by NAAC), Rajasthan, India

Dr. K.P. Rajesh, Zamorin's Guruvayurappan College, GA College PO, Kozhikode, Kerala, India

Dr. David E. Boufford, Harvard University Herbaria, Cambridge, MA 02138-2020, USA

Dr. Ritesh Kumar Choudhary, Agharkar Research Institute, Pune, Maharashtra, India

Dr. Navendu Page, Wildlife Institute of India, Chandrabani, Dehradun, Uttarakhand, India

Dr. Kannan C.S. Warrior, Institute of Forest Genetics and Tree Breeding, Tamil Nadu, India

Invertebrates

Dr. R.K. Avasthi, Rohtak University, Haryana, India

Dr. D.B. Bastawade, Maharashtra, India

Dr. Partha Pratim Bhattacharjee, Tripura University, Suryamaninagar, India

Dr. Kailash Chandra, Zoological Survey of India, Jabalpur, Madhya Pradesh, India

Dr. Ansie Dippenaar-Schoeman, University of Pretoria, Queenswood, South Africa

Dr. Rory Dow, National Museum of Natural History Naturalis, The Netherlands

Dr. Brian Fisher, California Academy of Sciences, USA

Dr. Richard Gallon, Ilandudno, North Wales, LL30 1UP

Dr. Hemant V. Ghate, Modern College, Pune, India

Dr. M. Monwar Hossain, Jahangirnagar University, Dhaka, Bangladesh

Mr. Jatishwor Singh Irungbam, Biology Centre CAS, Branišovská, Czech Republic.

Dr. Ian J. Kitching, Natural History Museum, Cromwell Road, UK

For Focus, Scope, Aims, and Policies, visit https://threatenedtaxa.org/index.php/JoTT/aims_scope

For Article Submission Guidelines, visit <https://threatenedtaxa.org/index.php/JoTT/about/submissions>

For Policies against Scientific Misconduct, visit https://threatenedtaxa.org/index.php/JoTT/policies_various

continued on the back inside cover

Cover: Fish species recorded in the Gowthami-Godavari Estuary, Andhra Pradesh: *Lutjanus johnii* (top left), *Triacanthus biaculeatus* (top right), *Acentrogobius cyanomos*, *Elops machnata*, *Trypauchen vagina*, *Oxyurichthys microlepis*. © Paromita Ray.



Range extension of lesser-known orchids to the Nilgiris of Tamil Nadu, India

M. Sulaiman¹ , K. Kiruthika² & P.B. Harathi³

¹ Botanical Survey of India, Southern Regional Centre, Coimbatore, Tamil Nadu 641003, India.

^{2&3} PSGR Krishnammal College for Women, Peelamedu, Coimbatore, Tamil Nadu 641004, India.

¹ sulai.anbu@gmail.com (corresponding author), ² kiruthika.zizyphus@gmail.com, ³ harathipb@gmail.com

Abstract: The present paper records the extended distribution of orchids, viz., *Oberonia chandrasekharanii* V.J.Nair, V.S.Ramach. & R.Ansari, *Peristylus plantagineus* (Lindl.) Lindl., *Porpax exilis* (Hook.f.) Schuit., Y.P.Ng & H.A.Pedersen, and *P. jerdoniana* (Wight) Rolfe, to the Nilgiris of Tamil Nadu.

Keywords: Endemics, epiphytes, new record, Orchidaceae, *Porpax*, Western Ghats.

Orchids, one of the highly evolved or advanced flowering groups in the Plant Kingdom are known for their shape, structure, colour and everlasting flowers. The diversity of orchids is extensive; they are distributed all the way from tropics to alpine meadows with varied habits for their survival like epiphytes, lithophytes, saprophytes, and terrestrials. "The Orchids of India" accounts with 1,256 taxa belonging to 155 genera with 307 endemic species; while the Western Ghats is represented by 305 species under 75 genera among which 128 species are endemic to the region; whereas from Tamil Nadu state, 215 species under 62 genera are documented of which 92 species are endemic (Singh et al. 2019). From the Nilgiris district of Tamil Nadu 113 species were reported by Sharma et al. (1977), later Joseph (1982) documented 116 species under 49 genera.

Recently, Jeevith et al. (2019) recorded 37 species belonging to 23 genera from the shola and grasslands of the Nilgiris.

Naturally, plants distribute or migrate through seed dispersal by various kinds of agents, viz., wind, water, insects, birds, and animals. Sometimes, their dispersion is enhanced through environmental disasters like cyclone, flood, torrential rain, causing translocation to an extended distance or range extension. Thus, previously distributed floral elements grow with the new associations. The regional flora workers should significantly document the new invasion of native or exotic species. It facilitates to compare the floristic assessment of an area on different time periods.

Although the flora handbook and pictorial guide of the Nilgiris is available, its flora is being continuously updated by new distribution records (Kiruthika et al. 2018; Kaliamoorthy & Saravanan 2019). The present paper highlights the range extension of four lesser-known orchids from the Nilgiris district of Tamil Nadu. Each species is supplemented with description, photographs, and other relevant details for easy identification (Image 1).

Editor: Anonymity requested.

Date of publication: 26 August 2022 (online & print)

Citation: Sulaiman, M., K. Kiruthika & P.B. Harathi (2022). Range extension of lesser-known orchids to the Nilgiris of Tamil Nadu, India. *Journal of Threatened Taxa* 14(8): 21727–21732. <https://doi.org/10.11609/jott.7517.14.8.21727-21732>

Copyright: © Sulaiman et al. 2022. Creative Commons Attribution 4.0 International License. JoTT allows unrestricted use, reproduction, and distribution of this article in any medium by providing adequate credit to the author(s) and the source of publication.

Funding: Department of Science and Technology -NRDMS (NO. NRDMS/01/68/015 (G) Dated 28th December 2015).

Competing interests: The authors declare no competing interests.

Acknowledgements: The authors are thankful to DST-NRDMS, Ministry of Science & Technology for funding the project, The Principal Chief Conservator of Forest, Chennai, for granting permission to carry out the research work in the forests.



MATERIALS AND METHODS

Study area

The Nilgiris district of Tamil Nadu is geo-positioned between 11.2–11.61°N latitude and 76.5–76.91°E longitude and ranging in altitude between 300 to 2,637 m. It lies phytogeographically in the Western Ghats covering total forest cover with 1,731.01 km² of which 466.72 km², 629.85 km², and 634.44 km² area with dense forest, moderate dense forest, and open forest respectively (India State Forest Report 2019). The hilly district is surrounded by Karnataka in the north, Kerala in the west, Coimbatore in the south, and Erode in the east.

Methods

After studying the indigenous medicinal plants in the Nilgiris district of Tamil Nadu (2016–2018), the authors collected a few species of orchids. The survey was supported with recording the field data, geo position and photograph of the species. The orchids were identified and studied using national and regional flora (Ansari & Balakrishnan 1990; Kumar & Manilal 1994; Fischer 1928, 2004; Misra 2007; Singh et al. 2019) and specimen examined in CAL, FRC, MH, and virtual herbarium of K. The voucher specimens are deposited at PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu.

TAXONOMIC TREATMENT

1. *Oberonia chandrasekharanii* V.J.Nair, V.S.Ramach. & R.Ansari, *Blumea* 28: 361. 1983; C.S. Kumar & Manilal, *Cat. Indian Orch.* 81. 1994; S. Misra, *Orchids India* 309. 2007; S.K. Singh et al., *Orchids of India - A pictorial guide* 382. 2019; Ganesan et al. *Endemic Flora of Western Ghats – Anamalais* 1: 182. 2019. (Image 2).

Epiphytes up to 38 cm long. Acaulescent. Leaves ca. 15.0 x 1.5 cm, articulate at base, ensiform, acute. Scape ca. 9.0 x 0.6 cm, flattened. Inflorescence raceme, ca. 22 cm long, verticils. Flowers ca. 2 x 1 mm, pale brownish, pedicelled. Bracts ca. 2.0 x 1.25 mm ovate or lanceolate, acuminate, irregularly denticulate along margins, gland-dotted. Sepals & petals reflexed, sparsely gland-dotted; dorsal sepal ca. 1.25 x 1.0 mm, ovate-oblong, obtuse, entire; lateral sepals ca. 1.25 x 1.0 mm, ovate-oblong, obtuse, induplicate. Petals ca. 1.25 x 0.5 mm, linear, denticulate, distantly denticulate along margins. Lip antrorse, ca. 1.5 x 2.0 mm, semi-orbicular or reniform in outline, papillose, gland-dotted, 3-lobed; lateral lobes cuneate and auriform, folded upwards round the column by the proximal end; midlobe ca. 0.5 x 0.75 mm, 2-lobuled with a broad sinus in between; lobules

orbicular; disc ovate, concave and sac-like. Pedicel with ovary ca. 2 mm long. Column ca. 0.39 x 0.45 mm, cylindrical; clinandrium apical, orbicular, winged around; operculum sub-orbicular, rounded; rostellum retuse, shorter than the clinandrial wings; stigma sub-orbicular, saccate. Pollinia ca. 0.3 x 0.18 mm, obovoid.

Flowering & Fruiting: July–October.

Habitat: The species is distributed in the Wilson Plantation of *Eucalyptus* sp.

Specimen examined: 81B (PSGR Krishnammal College for Women), 15.vii.2017, India, Tamil Nadu, Nilgiris district, Wilson Plantation – Naduvattam, 11.491339°N & 76.525112°E, 1,515 m, coll. K. Kiruthika & M. Sulaiman.

Distribution: India (Karnataka, Kerala & Tamil Nadu).

Note: *Oberonia chandrasekharanii* can be easily identified from other *Oberonia* species by papillose nature of lip. Recently, the species has been reported from the Anamalai hills of Tamil Nadu (Ganesan et al. 2019). More than 20 individuals of the species observed in Wilson Plantation, Naduvattam.

2. *Peristylus plantagineus* (Lindl.) Lindl., *Gen. Sp. Orchid. Pl.* 300. 1835; C.E.C. Fisch. in Gamble, *Fl. Madras* 3(8): 1475. 1928; J. Joseph & R. Ansari in A.N. Henry et al., *Fl. Tamil Nadu, Ind. Ser. I: Anal. 3: 22.* 1989; C.S. Kumar & Manilal, *Cat. Indian Orch.* 83. 1994; C.E.C. Fisch., *Flora of the Anamalai Hills* 2nd reprint 176. 2004; S. Misra, *Orchids India* 312. 2007; S.K. Singh et al., *Orchids of India - A pictorial guide* 421. 2019. *Herminium plantagineum* Lindl., *Edwards's Bot. Reg.* 18: t. 1499. 1832. *Habenaria wightii* Trimen, *Syst. Cat. Fl. Pl. Ceylon*: 91. 1885; Hook.f., *Fl. Brit. India* 6: 162. 1890. (Image 3).

Terrestrial up to 90 cm tall. Tuber 2, 2–3 cm long, oblong or ellipsoidal, terete. Stem 25–30 x 1.5–4.0 mm, erect, terete, glabrous, sheaths broad, tubular, acuminate. Leaves 3–8, 6–15 x 2–5 cm, clustered about middle of stem, closely sheathing at the base, sessile, broadly elliptic to elliptic-ovate, acute, entire, minutely papillose, mid-nerve prominent, 5–7-veined. Inflorescence a raceme, terminal spike, 9–22 cm long, erect, densely many flowered; peduncle 4–10 cm long, bracteate; stem bracts 1.5–2.0 x 0.4–0.6 cm, ovate-lanceolate, acuminate, entire, papillose, glabrous, dirty brownish-green with a yellow margin. Flowers greenish-white, 5–7 mm long, sessile, resupinate. Bracts 9–14 x 2–3 mm, pale brownish-green, lanceolate, longer than the pedicel and ovary, lanceolate, acuminate, 1-nerved. Sepals sub-similar, very minutely denticulate, glabrous, strongly 1-nerved; dorsal sepals 2.0–4.5 x 2.0–3.0 mm, concave, oblong-ovate, obtuse, forming a hood with petals; lateral sepals 2.5–5.0 x 1.5–2.5 mm, spreading,

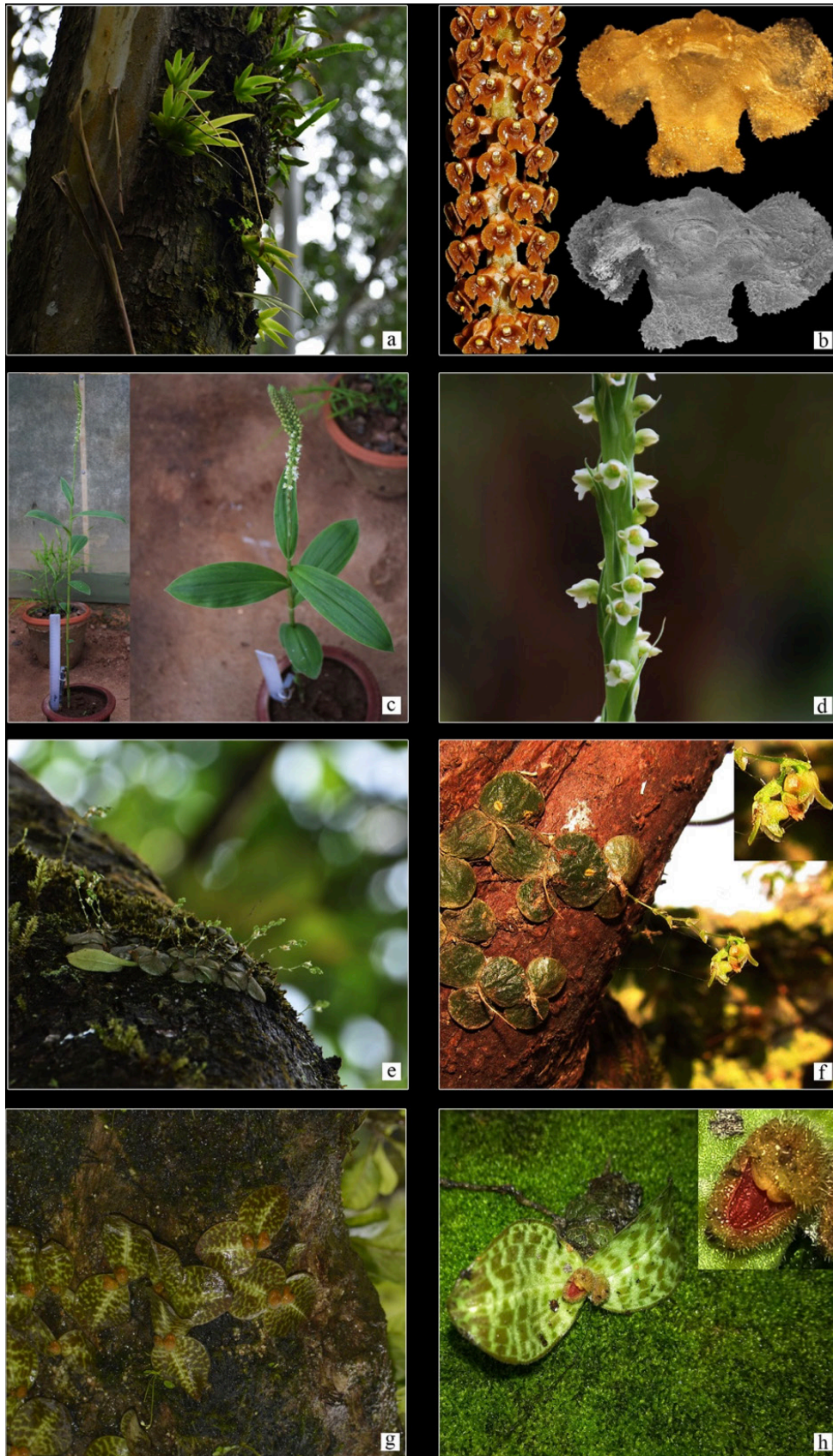


Image 1. a,b—*Oberonia chandrasekharanii* (Habit & Inflorescence along with labellum of the flower) | c,d—*Peristylus plantagineus* (Habit & Inflorescence) | e,f—*Porpax exilis* (Habit & Flowers close view) | g,h—*P. jerdoniana* (Habit & flower close view). © M. Sulaiman.



Image 2. *Oberonia chandrasekharanii* herbarium sheet preserved at PSGRKCW.



Image 3. *Peristylus plantagineus* herbarium sheet preserved at PSGRKCW.

oblong, margins incurved, often overlapping, sub-oblong, apex acute. Petals 2.5–4.0 x 2.0–3.0 mm long, obliquely oblong-elliptic, obtuse, entire, glabrous, glands dotted, 1-nerved. Lip 2.0–3.5 x 2.0–3.5 mm, smaller than the lateral sepals, faintly white, gland-dotted, broadly ovate, oblong, obtuse, shortly 3-lobed, base of the lip sub-concave, 3-nerved, mid nerve running straight from the base to the apex, the two lateral ones slightly sinuate, meeting below the apex at to form a loop across the mid-nerve; spur much shorter than sepals. Column short, pale green. Anther rounded, short recurved; tubes, divergent at the base; pollinia 2, clavate, caudicles very small with a small orbicular gland. Stigmatic lobes short, stout convex. Pedicel with ovary ca. 10 x 2 mm, stout, curved at apex, ribbed.

Flowering & Fruiting: July–December.

Habitat: Tropical evergreen forests and grasslands.

Specimen examined: 39A (PSGR Krishnammal College for Women), 28.viii.2016, India, Tamil Nadu, Nilgiris district, Allurkoodamoola – Gudalur, 11.51723°N & 76.519669°E, 964 m, coll. K. Kiruthika & M. Sulaiman.

Distribution: India (Chhattisgarh, Odisha, West Bengal, Madhya Pradesh, Andhra Pradesh, Gujarat,

Maharashtra, Goa, Karnataka, Kerala, & Tamil Nadu), Nepal, and Sri Lanka.

Note: *Peristylus plantagineus* can be easily recognised by having obscurely lobed lip and long floral bracts which exceed to the pedicel and ovary. It is found growing under moist Bamboo forests in Allurkoodamoola, Gudalur and previously recorded only from Anamalai and Tirunelveli hills of Tamil Nadu.

3. *Porpax exilis* (Hook.f.) Schuit., Y.P.Ng & H.A.Pedersen, Bot. J. Linn. Soc. 186: 199. 2018. *Eria exilis* Hook.f., Hooker's Icon. Pl. 19: t. 2074. 1891; C.E.C. Fisch. in Gamble, Fl. Madras 3(8): 1425. 1928; C.S. Kumar & Manilal, Cat. Indian Orch. 73. 1994; S. Misra, Orchids India 297. 2007; Karuppusamy & Ravichandran, Biosci. Disc. 4(1):12. 2013; S.K. Singh et al., Orchids of India - A pictorial guide 261. 2019. *Porpax chandrasekharanii* Bhargavan & C.N. Mohanan, Curr. Sci. 51: 990. 1982. *Eria chandrasekharanii* (Bhargavan & C.N. Mohanan) C.S.Kumar & Manilal, Taxon 35: 720. 1986. (Image 4).

Epiphytic, up to 3 cm tall. Pseudobulbs 0.3–1.0 cm across, 0.1–0.2 cm thick, button like, dorsiventrally compressed pushing the apex at to a lateral position,

always in pair or triplet, with white epidermal venation; scape 1.5–2.8 cm long, arise from the side of matured pseudobulbs. Leaves 2, 1.0–2.5 x 0.4–0.9 cm, deciduous, from the top of the scape, sub-opposite, unequal, obovate-elliptic to oblanceolate-oblong, entire, minutely serrulate towards apex, acuminate-apiculate, 7–9-veined, base sheathing, channeled, articulate, leaves fall before flowering. Inflorescence a raceme, 1.5–2.5 cm long, laxly 5–16-flowered, glabrous; peduncles slender, erect, terete, base at covered by the sheathing leaf-bases and sheath; rachis 1.0–1.3 cm long, slender, strongly flexuous. Flowers minute, 2.5–4.0 mm long, not fully opening, glabrous, white to greenish-yellow, lip purple. Bracts 1.0–1.5 x 1.0–1.5 mm, persistent, equal or shorter than pedicel and ovary, clasping, membranous, ovoid, cymbiform, entire, acuminate, 1-veined. Dorsal sepal ca. 2.0 x 1.2 mm, ovate-oblong, entire, obtuse, 1-veined; lateral sepals 2.0–2.2 x 1.5–2.0 mm, ovate, falcate, entire, sub-acute to obtuse, 1-veined; mentum ca. 1.0 x 1.5 mm, saccate, broadly orbicular, curved outwards. Petals 1.3–1.8 x 0.5–0.7 mm, elliptic-lanceolate, falcate, entire, acute, 1-veined. Lip 1.5–1.8 x 0.8–0.9 mm, enclosed within the lateral sepals and mentum, simple, fleshy, conduplicate,

strongly recurved at the middle, entire to slightly undulate, 3-veined, veins ending well behind the apex; disc with 2-oblong calli along the margins from base to apex. Column 0.3–0.5 mm long, erect; foot 1.2–1.5 mm long, elongated, curved; clinandrium widely 2-grooved; rostellum reflexed, tongue-shaped; stigmatic cavity orbicular. Anther ca. 0.3 x 0.4 mm, broadly orbicular, slightly emarginate, 2-lobed, each lobe 4-chambered; pollinia 8, in 4 unequal pairs, ca. 0.2 mm long, oblong-clavate, united by caudicles. Pedicel with ovary 1–1.15 mm long, slightly curved. Capsules 2.5–5.0 mm long, broadly ovate to obpyriform, ridged.

Flowering & Fruiting: January–May

Habitat: *Porpax exilis* is found in colonies on the host of *Litsea* sp.; it is associated with *Pinalia mysorensis* (Lindl.) Kuntze Lindl. and *Bulbophyllum* sp. in the tropical evergreen forests.

Specimen examined: 166 (PSGR Krishnammal College for Women), 16.i.2017, India, Tamil Nadu, Nilgiris district, Puliyaamba – Gudalur, 11.503091°N & 76.416058°E, 975 m, coll. K. Kiruthika & M. Sulaiman.

Distribution: India (Maharashtra, Goa, Karnataka, Kerala & Tamil Nadu).

4. *Porpax jerdoniana* (Wight) Rolfe, Orchid Rev. 16: 8. 1908; C.E.C. Fisch. in Gamble, Fl. Madras 3(8): 1422. 1928; J. Joseph & R. Ansari in A.N. Henry et al. Fl. Tamil Nadu, Ind. Ser. I: Anal. 3: 23. 1989; C.S. Kumar & Manilal, Cat. Indian Orch. 84. 1994; S. Misra, Orchids India 315. 2007; Uthayakumari Kalavathy, Taxonomic studies of the Monocots of Tirunelveli hills 71. 2004. S.K. Singh et al., Orchids of India - A pictorial guide 457. 2019. *Lichenora jerdoniana* Wight, Icon. Pl. Ind. Orient. 5: t. 1738. 1851. *Eria lichenora* Lindl., J. Proc. Linn. Soc., Bot. 3: 46. 1858; Hook.f., Fl. Brit. India 5: 787. 1890. (Image 5).

Epiphytes. Pseudobulb 0.5–1.0 cm diam., discoid, enclosed by reticulated sheath. Leaves 1.5–2.0 x 1.0–1.5 cm, 2-per pseudobulb, pale brown or green, orbicular or ovate, hairy on both surfaces, with reticulate veins and persistent during flowering. Flowers 1–2, reddish-brown, arise between leaves, sessile. Sepals connate, tube 2-lipped, lobes unequal, oblong, pubescent; dorsal sepal ca 1.5 x 1.0 mm; lateral sepals ca 2 x 1 mm, fused. Petals ca 2.0 x 0.7 mm, linear, fused, obtuse, 3-veined. Lip ovate-cordate, sides toothed, tip subulate, gland dotted. Anther 2-celled, ca. 1.5 x 1.0 mm, orbicular; pollinia 8, ca. 0.8 mm long clavate, waxy. Pedicel with ovary 3–4 cm long, densely hairy.

Flowering & Fruiting: July–October.

Habitat: The species is found growing on *Careya arborea* trees in association with *Dendrobium*

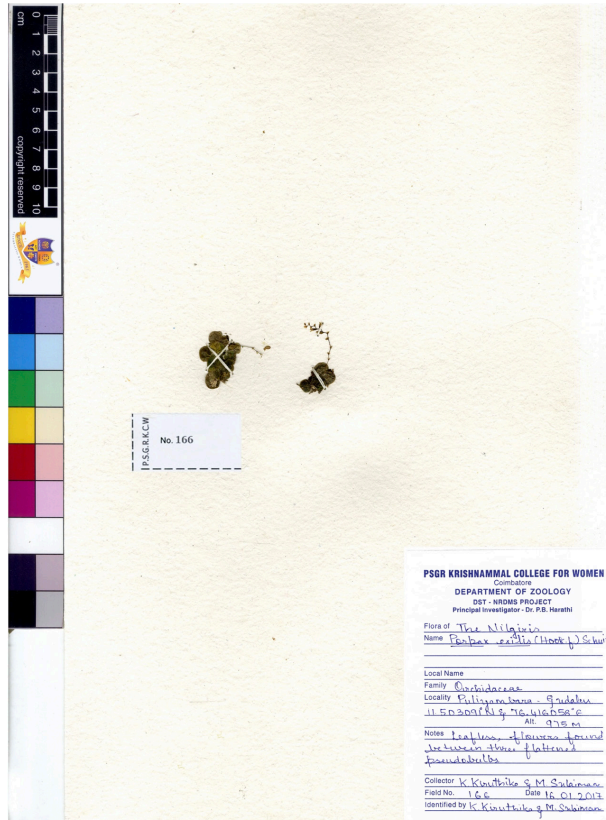


Image 4. *Porpax exilis* herbarium sheet preserved at PSGRKCW.

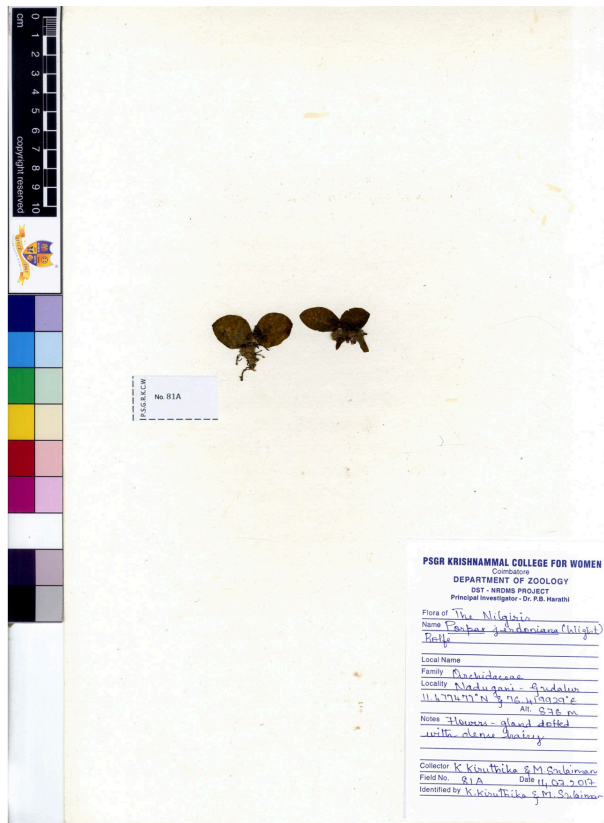


Image 5. *Porpax jerdoniana* herbarium sheet preserved at PSGRKCW.

macrostachyum in tropical evergreen forests.

Specimen examined: 81A (PSGR Krishnammal College for Women), 14.vii.2017, India, Tamil Nadu, Nilgiris district, Nadugani – Gudalur, 11.477477°N & 76.419929°E, 876 m, coll. K. Kiruthika & M. Sulaiman.

Distribution: India (Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu, Andaman & Nicobar Islands).

REFERENCES

- Ansari, R. & N.P. Balakrishnan (1990). A revision of the Indian species of *Oberonia* (Orchidaceae) In: Vogel, de E.F. (Ed.) *Orchid Monographs* vol. 4, 82 pp, t. 1-3.
- Fischer, C.E.C. (1928). Orchidaceae In: Gamble, J.S. (Ed.). *Flora of Presidency of Madras* 3(8): 1399–1478.
- Fischer, C.E.C. (2004). *Flora of the Anamalai Hills*, 2nd Reprint. Bishen Singh Mahendra Pal Singh, Dehra Dun, 176 pp.
- Ganesan, V., S.T. Panneerselvam, P.S. Sivaprasad & B. Subbaiyan (2019). *Endemic Flora of Western Ghats–Anamalais*. Anamalai Tiger Conservation Foundation, Tamil Nadu Trust, Pollachi 1: 1–182.
- India State of Forest Report (2019). Volume II. Forest Survey of India, Ministry of Environment, Forest & Climate Change, Government of India; <https://fsi.nic.in/isfr-volume-ii?pgID=isfr-volume-ii>
- Jeevith, S., C. Kunhikannan, C. Rajasekar & P. Samyudurai (2019). A Checklist of Orchids of Shola and Grasslands of Nilgiris, Western Ghats, India. *Biological Forum – An International Journal* 11(1): 41–46.
- Joseph, J. (1982). *Orchids of Nilgiris*. Records of the Botanical Survey of India 22: 1–144.
- Kaliamoorthy, S. & T.S. Saravanan (2019). Additions to the orchid flora of Peninsular India. *Rheedea* 29(4): 319–322.
- Kiruthika, K., M. Sulaiman, P.B. Harathi & R. Gopalan (2018). Revelatory Note on *Bulbophyllum fimbriatum* – An Endemic Orchid of Western Ghats, India. *Journal of Economic and Taxonomic Botany* 42(1–4): 65–69.
- Kumar, C.S. & K.S. Manilal (1994). *A Catalogue of Indian Orchids*. Bishen Singh Mahendra Pal Singh, Dehra Dun, 162 pp.
- Misra, S. (2007). *Orchids of India - A Glimpse*. Bishen Singh Mahendra Pal Singh, Dehra Dun, 402 pp.
- Sharma, B.D., B.V. Shetty, E. Vajravelu, G.R. Kumari, K. Vivekanathan, M. Chandrabose, M.S. Swaminathan, R. Chandrasekaran, G.V. Subbarao, J.L. Ellis, N.C. Rathakrishnan, S. Karthikeyan, V. Chandrasekaran & S. R. Srinivasan (1977). *Studies on the Flora of Nilgiris, Tamil Nadu. Biological Memoirs: Angiosperm Taxonomy Series* 2(1,2): 1–186.
- Singh, S.K., D.K. Agarwala, J.S. Jalal, S.S. Dash & A. Mao (2019). *Orchids of India - Pictorial Guide*. Botanical Survey of India, Ministry of Environment, Forest & Climate Change, Kolkata, 546 pp.

Dr. George Mathew, Kerala Forest Research Institute, Peechi, India
Dr. John Noyes, Natural History Museum, London, UK
Dr. Albert G. Orr, Griffith University, Nathan, Australia
Dr. Sameer Padhye, Katholieke Universiteit Leuven, Belgium
Dr. Nancy van der Poorten, Toronto, Canada
Dr. Kareen Schnabel, NIWA, Wellington, New Zealand
Dr. R.M. Sharma, (Retd.) Scientist, Zoological Survey of India, Pune, India
Dr. Manju Siliwal, WILD, Coimbatore, Tamil Nadu, India
Dr. G.P. Sinha, Botanical Survey of India, Allahabad, India
Dr. K.A. Subramanian, Zoological Survey of India, New Alipore, Kolkata, India
Dr. P.M. Sureshan, Zoological Survey of India, Kozhikode, Kerala, India
Dr. R. Varatharajan, Manipur University, Imphal, Manipur, India
Dr. Eduard Vives, Museu de Ciències Naturals de Barcelona, Terrassa, Spain
Dr. James Young, Hong Kong Lepidopterists' Society, Hong Kong
Dr. R. Sundararaj, Institute of Wood Science & Technology, Bengaluru, India
Dr. M. Nithyanandan, Environmental Department, La Ala Al Kuwait Real Estate. Co. K.S.C., Kuwait
Dr. Himender Bharti, Punjabi University, Punjab, India
Mr. Purnendu Roy, London, UK
Dr. Saito Motoki, The Butterfly Society of Japan, Tokyo, Japan
Dr. Sanjay Sondhi, TITLI TRUST, Kalpavriksh, Dehradun, India
Dr. Nguyen Thi Phuong Lien, Vietnam Academy of Science and Technology, Hanoi, Vietnam
Dr. Nitin Kulkarni, Tropical Research Institute, Jabalpur, India
Dr. Robin Wen Jiang Ngiam, National Parks Board, Singapore
Dr. Lionel Monod, Natural History Museum of Geneva, Genève, Switzerland.
Dr. Asheesh Shivam, Nehru Gram Bharti University, Allahabad, India
Dr. Rosana Moreira da Rocha, Universidade Federal do Paraná, Curitiba, Brasil
Dr. Kurt R. Arnold, North Dakota State University, Saxony, Germany
Dr. James M. Carpenter, American Museum of Natural History, New York, USA
Dr. David M. Claborn, Missouri State University, Springfield, USA
Dr. Kareen Schnabel, Marine Biologist, Wellington, New Zealand
Dr. Amazonas Chagas Júnior, Universidade Federal de Mato Grosso, Cuiabá, Brasil
Mr. Monsoon Jyoti Gogoi, Assam University, Silchar, Assam, India
Dr. Heo Chong Chin, Universiti Teknologi MARA (UiTM), Selangor, Malaysia
Dr. R.J. Shiel, University of Adelaide, SA 5005, Australia
Dr. Siddharth Kulkarni, The George Washington University, Washington, USA
Dr. Priyadarsanan Dharma Rajan, ATREE, Bengaluru, India
Dr. Phil Alderslade, CSIRO Marine And Atmospheric Research, Hobart, Australia
Dr. John E.N. Veron, Coral Reef Research, Townsville, Australia
Dr. Daniel Whitmore, State Museum of Natural History Stuttgart, Rosenstein, Germany.
Dr. Yu-Feng Hsu, National Taiwan Normal University, Taipei City, Taiwan
Dr. Keith V. Wolfe, Antioch, California, USA
Dr. Siddharth Kulkarni, The Hormiga Lab, The George Washington University, Washington, D.C., USA
Dr. Tomas Ditrich, Faculty of Education, University of South Bohemia in Ceske Budejovice, Czech Republic
Dr. Mihaly Foldvari, Natural History Museum, University of Oslo, Norway
Dr. V.P. Uniyal, Wildlife Institute of India, Dehradun, Uttarakhand 248001, India
Dr. John T.D. Caleb, Zoological Survey of India, Kolkata, West Bengal, India
Dr. Priyadarsanan Dharma Rajan, Ashoka Trust for Research in Ecology and the Environment (ATREE), Royal Enclave, Bangalore, Karnataka, India

Fishes

Dr. Neelesh Dahanukar, IISER, Pune, Maharashtra, India
Dr. Topiltzin Contreras MacBeath, Universidad Autónoma del estado de Morelos, México
Dr. Heok Hee Ng, National University of Singapore, Science Drive, Singapore
Dr. Rajeev Raghavan, St. Albert's College, Kochi, Kerala, India
Dr. Robert D. Sluka, Chiltern Gateway Project, A Rocha UK, Southall, Middlesex, UK
Dr. E. Vivekanandan, Central Marine Fisheries Research Institute, Chennai, India
Dr. Davor Zanella, University of Zagreb, Zagreb, Croatia
Dr. A. Biju Kumar, University of Kerala, Thiruvananthapuram, Kerala, India
Dr. Akhilesh K.V., ICAR-Central Marine Fisheries Research Institute, Mumbai Research Centre, Mumbai, Maharashtra, India
Dr. J.A. Johnson, Wildlife Institute of India, Dehradun, Uttarakhand, India
Dr. R. Ravinesh, Gujarat Institute of Desert Ecology, Gujarat, India

Amphibians

Dr. Sushil K. Dutta, Indian Institute of Science, Bengaluru, Karnataka, India
Dr. Annemarie Ohler, Muséum national d'Histoire naturelle, Paris, France

Reptiles

Dr. Gernot Vogel, Heidelberg, Germany
Dr. Raju Vyas, Vadodara, Gujarat, India
Dr. Pritpal S. Soorae, Environment Agency, Abu Dhabi, UAE.
Prof. Dr. Wayne J. Fuller, Near East University, Mersin, Turkey
Prof. Chandrashekher U. Rivonker, Goa University, Taleigao Plateau, Goa, India
Dr. S.R. Ganesh, Chennai Snake Park, Chennai, Tamil Nadu, India
Dr. Himansu Sekhar Das, Terrestrial & Marine Biodiversity, Abu Dhabi, UAE

Birds

Dr. Hem Sagar Baral, Charles Sturt University, NSW Australia
Mr. H. Byju, Coimbatore, Tamil Nadu, India
Dr. Chris Bowden, Royal Society for the Protection of Birds, Sandy, UK
Dr. Priya Davidar, Pondicherry University, Kalapet, Puducherry, India
Dr. J.W. Duckworth, IUCN SSC, Bath, UK
Dr. Rajah Jayapal, SACON, Coimbatore, Tamil Nadu, India
Dr. Rajiv S. Kalsi, M.L.N. College, Yamuna Nagar, Haryana, India
Dr. V. Santharam, Rishi Valley Education Centre, Chittoor Dt., Andhra Pradesh, India
Dr. S. Balachandran, Bombay Natural History Society, Mumbai, India
Mr. J. Praveen, Bengaluru, India
Dr. C. Srinivasulu, Osmania University, Hyderabad, India
Dr. K.S. Gopi Sundar, International Crane Foundation, Baraboo, USA
Dr. Gombobaatar Sunde, Professor of Ornithology, Ulaanbaatar, Mongolia
Prof. Reuven Yosef, International Birding & Research Centre, Eilat, Israel
Dr. Taej Mundkur, Wetlands International, Wageningen, The Netherlands
Dr. Carol Inskipp, Bishop Auckland Co., Durham, UK
Dr. Tim Inskipp, Bishop Auckland Co., Durham, UK
Dr. V. Gokula, National College, Tiruchirappalli, Tamil Nadu, India
Dr. Arkady Lelej, Russian Academy of Sciences, Vladivostok, Russia
Dr. Simon Dowell, Science Director, Chester Zoo, UK
Dr. Mário Gabriel Santiago dos Santos, Universidade de Trás-os-Montes e Alto Douro, Quinta de Prados, Vila Real, Portugal
Dr. Grant Connette, Smithsonian Institution, Royal, VA, USA
Dr. M. Zafar-ul Islam, Prince Saud Al Faisal Wildlife Research Center, Taif, Saudi Arabia

Mammals

Dr. Giovanni Amori, CNR - Institute of Ecosystem Studies, Rome, Italy
Dr. Anwaruddin Chowdhury, Guwahati, India
Dr. David Mallon, Zoological Society of London, UK
Dr. Shomita Mukherjee, SACON, Coimbatore, Tamil Nadu, India
Dr. Angie Appel, Wild Cat Network, Germany
Dr. P. O. Nameer, Kerala Agricultural University, Thrissur, Kerala, India
Dr. Ian Redmond, UNEP Convention on Migratory Species, Lansdown, UK
Dr. Heidi S. Riddle, Riddle's Elephant and Wildlife Sanctuary, Arkansas, USA
Dr. Karin Schwartz, George Mason University, Fairfax, Virginia.
Dr. Lala A.K. Singh, Bhubaneswar, Orissa, India
Dr. Mewa Singh, Mysore University, Mysore, India
Dr. Paul Racey, University of Exeter, Devon, UK
Dr. Honnavalli N. Kumara, SACON, Anaikatty P.O., Coimbatore, Tamil Nadu, India
Dr. Nishith Dharaiya, HNG University, Patan, Gujarat, India
Dr. Spartaco Gippoliti, Socio Onorario Società Italiana per la Storia della Fauna "Giuseppe Altobello", Rome, Italy
Dr. Justus Joshua, Green Future Foundation, Tiruchirappalli, Tamil Nadu, India
Dr. H. Raghuram, The American College, Madurai, Tamil Nadu, India
Dr. Paul Bates, Harison Institute, Kent, UK
Dr. Jim Sanderson, Small Wild Cat Conservation Foundation, Hartford, USA
Dr. Dan Challender, University of Kent, Canterbury, UK
Dr. David Mallon, Manchester Metropolitan University, Derbyshire, UK
Dr. Brian L. Cypher, California State University-Stanislaus, Bakersfield, CA
Dr. S.S. Talmale, Zoological Survey of India, Pune, Maharashtra, India
Prof. Karan Bahadur Shah, Budhanilakantha Municipality, Kathmandu, Nepal
Dr. Susan Cheyne, Borneo Nature Foundation International, Palangkaraja, Indonesia
Dr. Hemanta Kafley, Wildlife Sciences, Tarleton State University, Texas, USA

Other Disciplines

Dr. Aniruddha Belsare, Columbia MO 65203, USA (Veterinary)
Dr. Mandar S. Paingankar, University of Pune, Pune, Maharashtra, India (Molecular)
Dr. Jack Tordoff, Critical Ecosystem Partnership Fund, Arlington, USA (Communities)
Dr. Ulrike Streicher, University of Oregon, Eugene, USA (Veterinary)
Dr. Hari Balasubramanian, EcoAdvisors, Nova Scotia, Canada (Communities)
Dr. Rayanna Hellem Santos Bezerra, Universidade Federal de Sergipe, São Cristóvão, Brazil
Dr. Jamie R. Wood, Landcare Research, Canterbury, New Zealand
Dr. Wendy Collinson-Jonker, Endangered Wildlife Trust, Gauteng, South Africa
Dr. Rajeshkumar G. Jani, Anand Agricultural University, Anand, Gujarat, India
Dr. O.N. Tiwari, Senior Scientist, ICAR-Indian Agricultural Research Institute (IARI), New Delhi, India
Dr. L.D. Singla, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, India
Dr. Rupika S. Rajakaruna, University of Peradeniya, Peradeniya, Sri Lanka
Dr. Bahar Baviskar, Wild-CER, Nagpur, Maharashtra 440013, India

Reviewers 2019–2021

Due to pausivity of space, the list of reviewers for 2018–2020 is available online.

The opinions expressed by the authors do not reflect the views of the Journal of Threatened Taxa, Wildlife Information Liaison Development Society, Zoo Outreach Organization, or any of the partners. The journal, the publisher, the host, and the partners are not responsible for the accuracy of the political boundaries shown in the maps by the authors.

Journal of Threatened Taxa is indexed/abstracted in Bibliography of Systematic Mycology, Biological Abstracts, BIOSIS Previews, CAB Abstracts, EBSCO, Google Scholar, Index Copernicus, Index Fungorum, JournalSeek, National Academy of Agricultural Sciences, NewJour, OCLC WorldCat, SCOPUS, Stanford University Libraries, Virtual Library of Biology, Zoological Records.

NAAS rating (India) 5.64

Print copies of the Journal are available at cost. Write to:
The Managing Editor, JoTT,
c/o Wildlife Information Liaison Development Society,
No. 12, Thiruvannamalai Nagar, Saravanampatti - Kalapatti Road,
Saravanampatti, Coimbatore, Tamil Nadu 641035, India
ravi@threatenedtaxa.org



www.threatenedtaxa.org

OPEN ACCESS



The Journal of Threatened Taxa (JoTT) is dedicated to building evidence for conservation globally by publishing peer-reviewed articles online every month at a reasonably rapid rate at www.threatenedtaxa.org. All articles published in JoTT are registered under [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/) unless otherwise mentioned. JoTT allows unrestricted use, reproduction, and distribution of articles in any medium by providing adequate credit to the author(s) and the source of publication.

ISSN 0974-7907 (Online) | ISSN 0974-7893 (Print)

August 2022 | Vol. 14 | No. 8 | Pages: 21487–21750

Date of Publication: 26 August 2022 (Online & Print)

DOI: 10.11609/jott.2022.14.8.21487-21750

Article

Dietary preference of Assamese Macaque *Macaca assamensis* McClelland, 1840 (Mammalia: Primates: Cercopithecidae) in Dampa Tiger Reserve, India
– Ht. Decemson, Sushanto Gouda, Zothan Siam & Hmar Tlawmte Lalremsanga, Pp. 21487–21500

Reviews

Natural history notes on three bat species
– Dharmendra Khandal, Ishan Dhar, Dau Lal Bohra & Shyamkant S. Talmale, Pp. 21501–21507

The checklist of birds of Rajkot district, Gujarat, India with a note on probable local extinction
– Neel Sureja, Hemanya Radadia, Bhavesh Trivedi, Dhavalkumar Varagiya & Mayurdan Gadhavi, Pp. 21508–21528

Alien flora of Uttarakhand, western Himalaya: a comprehensive review
– Shikha Arora, Amit Kumar, Khima Nand Balodi & Kusum Arunachalam, Pp. 21529–21552

Communications

New records of *Nyctalus leisleri* (Kuhl, 1817) and *Myotis nattereri* (Kuhl, 1817) (Mammalia: Chiroptera: Vespertilionidae) from National Park “Smolny” and its surroundings, Republic of Mordovia
– Dmitry Smirnov, Nadezhda Kirillova, Alexander Kirillov, Alexander Ruchin & Victoria Vekhnik, Pp. 21553–21560

Avifaunal diversity in unprotected wetlands of Ayodhya District, Uttar Pradesh, India
– Yashmita-Ulman & Manoj Singh, Pp. 21561–21578

Can the Sri Lankan endemic-endangered fish *Labeo fisheri* (Teleostei: Cyprinidae) adapt to a new habitat?
– Dinelka Thilakarathne & Gayan Hirimuthugoda, Pp. 21579–21587

An overview of the fish diversity and their threats in the Gowthami-Godavari Estuary in Andhra Pradesh, India
– Paromita Ray, Giridhar Malla, J.A. Johnson & K. Sivakumar, Pp. 21588–21604

DNA barcoding of a lesser-known catfish, *Clupisoma bastari* (Actinopterygii: Ailiidae) from Deccan Peninsula, India
– Boni Amin Laskar, Harikumar Adimalla, Shantanu Kundu, Deepa Jaiswal & Kailash Chandra, Pp. 21605–21611

Description of the larva of *Vestalis melania* (Selys, 1873) (Odonata: Calopterygidae) identified through DNA barcoding
– Don Mark E. Guadalquivir, Olga M. Nuneza, Sharon Rose M. Tabugo & Reagan Joseph T. Villanueva, Pp. 21612–21618

Checklist of Carabidae (Coleoptera) in the Chinnar Wildlife Sanctuary, a dry forest in the rain shadow region of the southern Western Ghats, India
– M.C. Sruthi & Thomas K. Sabu, Pp. 21619–21641

Zoophily and nectar-robbing by sunbirds in *Gardenia latifolia* Ait. (Rubiaceae)
– A.J. Solomon Raju, S. Sravan Kumar, L. Kala Grace, K. Punny, Tebesi Peter Raliengoane & K. Prathyusha, Pp. 21642–21650

A new population record of the Critically Endangered *Dipterocarpus bourdillonii* Brandis from the Anamalai Tiger Reserve, India
– Navendu Page, Srinivasan Kasinathan, Kshama Bhat, G. Moorthi, T. Sundarraj, Divya Mudappa & T.R. Shankar Raman, Pp. 21651–21659

Checklist of the orchids of Nokrek Biosphere Reserve, Meghalaya, India
– Bikarma Singh & Sneha, Pp. 21660–21695

Morphological assessment and partial genome sequencing inferred from matK and rbcL genes of the plant *Tacca chantrieri*
– P.C. Lalbiaknii, F. Lalnunmawia, Vanlalhruii Ralte, P.C. Vanlalnunpuia, Elizabeth Vanlalruati Ngamlai & Joney Lalnunpuui Pachua, Pp. 21696–21703

Short Communications

Conservation status of freshwater fishes reported from Tungabhadra Reservoir, Karnataka, India
– C.M. Nagabhushan, Pp. 21704–21709

Species diversity and distribution of large centipedes (Chilopoda: Scolopendromorpha) from the biosphere reserve of the western Nghe An Province, Vietnam
– Son X. Le, Thuc H. Nguyen, Thinh T. Do & Binh T.T. Tran, Pp. 21710–21714

***Eremotermes neoparadoxalis* Ahmad, 1955 (Isoptera: Termitidae: Amitermitinae) a new record from Haryana, India**
– Bhanupriya, Nidhi Kakkar & Sanjeev Kumar Gupta, Pp. 21715–21719

New state records of longhorn beetles (Insecta: Coleoptera: Cerambycidae) from Meghalaya, India
– Vishwanath Duttatray Hegde, Sarita Yadav, Prerna Burathoki & Bhaskar Saikia, Pp. 21720–21726

Range extension of lesser-known orchids to the Nilgiris of Tamil Nadu, India
– M. Sulaiman, K. Kiruthika & P.B. Harathi, Pp. 21727–21732

Notes

Opportunistic sighting of a Sperm Whale *Physeter macrocephalus* Linnaeus, 1758 in Lakshadweep Archipelago
– Manokaran Kamalakannan, C.N. Abdul Raheem, Dhriti Banerjee & N. Marimuthu, Pp. 21733–21735

An unusual morph of *Naja naja* (Linnaeus, 1758) (Squamata: Serpentes) from Goa, India
– Nitin Sawant, Amrut Singh, Shubham Rane, Sagar Naik & Mayur Gawas, Pp. 21736–21738

Drape Fin Barb *Oreichthys crenuoides* (Schäfer, 2009) (Cypriniformes: Cyprinidae) a new fish species report for Nepal
– Tapil Prakash Rai, Pp. 21739–21741

New distribution record of *Gazalina chrysolopha* Kollar, 1844 (Lepidoptera: Notodontidae) in the Trans-Himalayan region of western Nepal
– Ashant Dewan, Bimal Raj Shrestha, Rubina Thapa Magar & Prakash Gaudel, Pp. 21742–21744

First record of *Xanthia (Cirrha) icteritia* (Hufnagel, 1766) (Noctuidae: Xyleninae) from India
– Muzafar Riyaz & K. Sivasankaran, Pp. 21745–21748

First report of the mymarid genus *Proarescon* Huber (Hymenoptera: Chalcidoidea: Mymaridae) from India
– Ayyavu Athithya & Sagadai Manickavasagam, Pp. 21749–21750

Publisher & Host

