

SOCGI PLANT CHROMOSOME NUMBER REPORTS-VII

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These reports are primarily intended to ensure quick recording of chromosome numbers of plants studied from unexplored regions/areas particularly of Tropical Asia, Africa and America which otherwise may remain unpublished. While the importance of chromosomal surveys of the flora and the critical cytotaxonomical identification hardly needs any emphasis, it is but essential for each chromosome number report to be documented by an authenticated voucher specimen with specific accession number and preserved in a recognised herbarium. Two copies of contributions regarding hitherto unrecorded chromosome numbers with families, genera and species arranged in alphabetic order (separate lists required for algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms) and following the style of the recent report should reach Professor S. S. Bir, Department of Botany, Punjabi University Patiala-147002 India. Requirements of reprints (to be supplied of the consolidated report only), if any, may be intimated while communicating the chromosome reports.

1. Reports by S. S. KUMAR & PREM LAL UNIYAL, Department of Botany,
Panjab University, Chandigarh - 160014, India
Vouchers in PAN*

Bartramiacae

Bartramia subpellucida Mitt. $n=12$. Triyugi Narayan, Kedarnath, 1900m (5105).
Philonotis angusta Mitt. $n=6$. Rampur, Kedarnath, 1650m (5106).
Philonotis falcata (Hook.) Mitt. $n=12$. Gwaldam, Chamoli, 1830m (5056).

Brachytheciaceae

Brachythecium cameratum (Mitt.) Jaeg. $n=14$. Phul chatti, Yamunotri, 2660m (5109).
Brachythecium salebrosum (Web. & Mohr) B.S.G. $n=12$. Harsil, Gangotri, 2650m (5108).
Rhynchostegiella divaricatifolia (Ren. & Card.) Broth. $n=13$. Rampur, Kedarnath, 1650m (5107).

Dicranaceae

Campylopus fragilis (Brid.) B S G. $n=13$. Rambara, Kedarnath, 2590m (5100).
Dicranella spiralis (Mitt.) Jaeg. $n=13$. Badrinath, 3110m (5086).
Dicranum undulatum Brid. $n=13$. Tungnath, Chamoli, 3620m (5099).

Entodontaceae

Entodon laetus (Griff.) Jaeg. $n=11$. Guptakashi, Kedarnath, 1400m (5110).

Funariaceae

Funaria wallichii (Mitt.) Broth. $n=24$. Rishikesh, 348m (5104).

*All localities in Garhwal Himalaya.

Hypnaceae

- Gollania clarescens* (Mitt.) Broth. n=11. Wan, Chamoli, 2440m (5065).
Isopterygium dischaceum (Mitt.) Jaeg. n=12. Bhundar, Chamoli. 2440m (5111).

Mniaceae

- Mnium heterophyllum* (Hook.) Schwaegr. n=12. Chakrata, 3250m (5087).
Mnium integrum Bocsh & Lac. n=6, 12. Chopta, Chamoli, 3200m (4052, 5088).
Mnium laevinerve Card. n=6. Nilkanth, Badrinath, 3500m (4054).
Mnium marginatum (With.) P. Beauv. n=6. Gaurikund, Kedarnath, 2000m (5089).
Mnium subintegrum Card. n=6, 12. Valley of Flowers & Ghangharia, Chamoli, 3352m (5090, 5091).
Mnium undulatum Hedw. n=12. Chopta, Chamoli, 3250m (5092).
Plagiomnium japonicum (Lindb.) T. Kop. n=7, 12. Harsil, Gangotri, 2650m (5093), Phata, Kedarnath, 1600m (5094).
Plagiomnium medium (B.S.G.) T. Kop. n=6. Ghangharia, Chamoli, 3050m (5090).
Plagiomnium rostratum (Schrader) T. Kop. n=6. Chandrivadani, Tehri, 2200m (5096).
Plagiomnium succulentum (Mitt.) T. Kop. n=6. Ghangharia, Chamoli, 3050m (5097).
Plagiomnium vesicatum (Besch.) T. Kop. n=6. Badrinath, 3110m (4059).

Orthotrichaceae

- Zygodon obtusifolius* Hook. n=11. Kedarnath, 3585m (5098).

Pottiaceae

- Geheebia gigantia* (Funck.) Boul. n=13. Mandoli, Chamoli, 2500m (5045).
Hyophila rosea Williams. n=13. Hanuman Chatti, Yamunotri, 2134m (5112).

2. S.S. BIR, P. CHEEMA and M. SIDHU, Department of Botany,
 Punjabi University, Patiala 147002, India.
 Vouchers in PUN

Cyperaceae

- Cyperus brevifolius* (Rottb.) Hassk., n=43, 58, 60. North India : Sangrur, Sangrur-Patiala Road 230m, n=58 (35004); Nangal, Township Area 600m, n=43 (34963); Nahan, Way to Renukaji, 1000m, n=60 (35002, 35003).
Cyperus bulbosus Vahl, n=42. North India : Patiala, University Campus, 250m (34964).
Cyperus difformis Linn., n=9, 17. North India : Sangrur, Bahadurpur, 230m, n=17 (35000, 35001); Sangrur-Patiala Road, 230m, n=9 (34965); Nangal, Township area, 600m, n=17 (34999); Nangal, Township Area, 600m, n=9 (34966).
Cyperus flabelliformis Rottb., n=16. North India : Patiala, Kamal lab., Leela Bhawan Road, 250m (34967).
Cyperus flavidus Retz., n=36. North India : Sangrur, Bahadurpur, 250m (34968).
Cyperus kyllingia Endl., n=43, 60. North India : Nahan, Way to Renukaji 1,000m, n=43 (34998); Renukaji 800m, n=60 (34969).
Cyperus potundus Linn., n=48, 50, 54. North India : Patiala, Boharpur, 250m, n=54 (34997); n=50 (34995, 34996), n=48 (34994); Nahan, Way to Renukaji, 1,000m,

- n*=50 (34993); Sangrur, Banasar Bagh, 230m, *n*=50 (34992), *n*=50 (34990, 34991).
Cyperus triceps (Rottb.) Endl., *n*=44. North India : Patiala, University Campus, 250m (34970).
Fimbristylis bisumbellata (Forsk.) Bubani, *n*=5. North India : Sangrur, Mastuana, 230m (34989); Patiala, Nadampur, 250m, (34987, 34988); Patiala, Boharpur, 250m (34986).
Fimbristylis ferruginea Vahl, *n*=10. North India : Patiala, University Campus, 250m (34981); Sangrur, Mastuana, 230m, *n*=10 (34985); Ropar, Headworks, 400m (34983).
Fimbristylis millacea Vahl., *n*=5. North India : Patiala, Boharpur, 250m (34981, 34982).
Fimbristylis quinquangularis (Vahl) Kunth, *n*=5. North India : Patiala University Campus, 250m (34976); Ropar, Headworks, 400m (34979); Sangrur, Bahadurpur, 230m (34980); Patiala, Rajpura, 250m (34978).
Scirpus mucronatus Linn., *n*=22. North India : Ropar, Headworks, 400m (34975).
Scirpus tuberosus Desf. *n*=52, North India : Patiala, University Campus, 250m (34973); Patiala, Bhedpur, 250m, *n*=48 (34977); Patiala, Nadampur, 250m, *n*=43 (34971).

3. PARAMJIT SINGH SANDHU and Late SURINDER KAUR MANN, Department of Biosciences, Himachal Pradesh University, Shimla-5, HP, India
 Vouchers in Herbarium, H.P. University.

Aceraceae

- Acer oblongum* Wall. *n*=13, 26. Northern India : Himachal Pradesh, Shimla hills, Summer hill 2,100m (10041); Gunahatti 1680m (10042).

Anacardiaceae

- Anacardium occidentale* L. *n*=12. Northern India : Himachal Pradesh, Shimla hills, Gamrola, 800m (10048).
Odina woodier Roxb. *n*=15. Northern India : Himachal Pradesh, Shimla hills, Ghagas pul, 1,000m (10049).
Rhus cotinus L. *n*=15+0—2B. Northern India : Himachal Pradesh, Shimla hills, Chail 1,750m (10050).
Rhus parviflora Roxb. *n*=14, 15. Northern India : Himachal Pradesh, Shimla hills, Suni 950m (10051); Sainj, 875m, *n*=15 (10052).
Rhus punjabensis Stewart. *n*=15. Northern India : Himachal Pradesh, Shimla hills, Dhali, 2,400m (10053).
Rhus semialata Murray *n*=15, Northern India : Himachal Pradesh, Shimla 2,350m (10054).
Rhus succedanea L. *n*=15. Northern India : Himachal Pradesh, Shimla hills, Deonghat, 1,800m (10055).
Rhus wallichiana Hook. f. *n*=15. Northern India : Himachal Pradesh, Shimla hills, Taradevi, 1,875m (10056).

Aquafoliaceae

- Ilex dipyrrena* Wall. *n*=20. Northern India : Himachal Pradesh, Shimla hills, Taradevi, 1,875m (10028).

Iteaceae

Itea nutans Royle. $n=11, 22$. Northern India : Himachal Pradesh, Shimla hills, Parwanoo, 800m (10110); Suni, 9,75m $n=22$. (10111).

Juglandaceae

Juglans regia L. $n=16$. Northern India : Himachal Pradesh, Shimla hills, Khadrula, 2,850m (10174).

Lauraceae

Machilus duthiei King. $n=12$, Northern India : Himachal Pradesh Shimla hills, Chedwickfall, 1,800m (10151).

Machilus odoratissima Nees. $n=12+0-2B$, Northern India : Himachal Pradesh, Shimla hills, Suni, 950m (10152).

Phoebe lanceolata Nees. $n=12$, Northern India; Himachal Pradesh, Shimla hills, Koti (1190 m) 10153.

Lythraceae

Woodfordia fruticosa Karz. $n=8$. Northern India: Himachal Pradesh, Shimla hills, Bhararighat 1,150m (10115).

Malpighiaceae

Hiptage madablota Gaertn. $n=28$. Northern India : Himachal Pradesh, Shimla hills, Rampur, 960m (10020).

Melastomaceae

Osbeckia stellata Wall. $n=20$. Northern India : Himachal Pradesh, Shimla Hills, Tattapani, 875m (10114).

Meliaceae

Azadirachta indica L. $n=14$. Northern India : Himachal Pradesh, Shimla hills, Nauni 900 m (10026).

Cedrela serrata Royle $n=13$, Northern India : Himachal Pradesh, Shimla hills, Shilaru, 2,500 m (10024).

Melia azedarach L. $n=14$. Northern India : Himachal Pradesh, Shimla hills, Kingal, 900m (10027).

Toona ciliata Roxb ex Rottle $n=13$. Northern India : Himachal Pradesh, Shimla hills, Gunahatti, 1,680m (100025).

Meliosmaceae

Meliosma dilleniasfolia Wall. $n=16$. Northern India : Himachal Pradesh, Shimla hills, Gunahatti, 1,680m (10045).

Meliosma pungens Wall. $n=16, 16+0-2B$. Northern India : Himachal Pradesh, Shimla hills, Mashobra, 2,375m (10046); Narkanda 2,700m, $n=16+0-2B$. (10047).

Menispermaceae

Cocculus laurifolius DC $n=13$. Northern India : Himachal Pradesh, Shimla hills, Suni, 950m, (10003).