
Contributions of Dr. D.D. Awasthi to the world of Lichenology

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ABSTRACT

Dr. Dharni Dhar Awasthi is popularly known as 'Father of Lichenology in India' for laying a strong foundation for lichen research in India. Starting from the year 1948 to till 2010 he produced over 90 important publications, including research articles, chapters, monographs and books. Dr. Awasthi described a total of four new genera, 74 new species and proposed 68 new combinations. Various lichen researchers described two new genera and dedicated a total 21 species in the name of Dr. Awasthi. In this article, we discuss important contributions and list the novel taxa described by Dr. Awasthi and taxa dedicated to him, together with a complete list of his publication.

INTRODUCTION

Dr. Dharni Dhar Awasthi started his career in lichenology under the guidance of Dr. K.P. Biswas, who was then Superintendent of Royal Botanic Garden (RBG), Howrah (now The Acharya Jagadish Chandra Bose Indian Botanic Garden). As Dr. Awasthi studied mycology under the guidance of Professor Dr. S.N. Das Gupta at the University of Lucknow, Dr. Biswas asked him to study the collection of fungi along with the angiosperms at RBG. However, Dr. Awasthi ended up with huge unattended lichen collections and exsiccated from European and other countries. While arranging these specimens according to Zahlbruckner's Catalogues Lichenum Universalis Dr. Awasthi developed an interest in lichens and thereafter devoted himself to the study of lichens. He then also helped to revise a catalog of lichens of India under preparation by Dr. Biswas in 1947. The very first publication of Dr. Awasthi appeared in 1948, mentioning the distribution of lichens in India. After training from RBG, Dr. Awasthi joined National Botanic Garden, Lucknow (now Council of Scientific and Industrial Research – National Botanical Research Institute) and tried establishing the lichen herbarium. Later, Dr. Awasthi joined the University of Lucknow as a Lecturer in the Department of Botany in December 1952 and carried forward his research in Lichenology. Initially, Dr. Awasthi was helped by V. Räsänen, a lichenologist from Finland in the identification of lichens. His acquaintance

with Prof. A.O. Höeg, then Director of Birbal Sahni Institute of Palaeobotany, Lucknow (now Birbal Sahni Institute of Palaeoscience) helped him contact a well-known lichenologist of that time such as Profs. B. Lyngé, Y. Asahina, H. des Abbayes, Drs. S. Rietz, O. Almborn, G. Degelius, A.H. Magnusson, R. Santesson, M. Choisy, I.M. Lamb, and Thomson who sent valuable lichen literature and exchanged specimens.

It is interesting to note that Dr. Awasthi had two Ph.D. degrees. His first thesis was on 'Studies on lichens from India and Nepal' under the guidance of Dr. Das Gupta in 1961 from the University of Lucknow. Dr. Awasthi was awarded 2nd Ph.D. from Colorado University, Colorado, under the guidance of Dr. W.A. Webber for his thesis 'Contributions to the lichen flora of India with special reference to microlichens'. While Dr. Awasthi was in Colorado, he got an opportunity to meet several American and European lichenologists, consulted herbaria and collected several duplicate specimens from these herbaria as well as valuable lichen literature.

Dr. Awasthi resumed lichen research at University of Lucknow with the profound knowledge acquired from Colorado. He published 'Catalogue of the lichens from India, Nepal, Pakistan and Ceylon' in the year 1965, the first authentic compilation of lichen studies carried out in India till date. The time from the year 1975 onwards considered as a highly productive period in Dr. Awasthi's

career in lichen research. He alone or jointly revised more than 70 genera of lichens. Important among these are *Alectoria*, *Bacidia*, *Badimia*, *Brigantiaea*, *Bryoria*, *Buellia*, *Catillaria*, *Cetraria*, *Coccocarpia*, *Collema*, *Dermatocarpon*, *Dirinaria*, *Fellhanera*, *Heterodermia*, *Hypogymnia*, *Leptogium*, *Letrouitia*, *Melanoparmelia*, *Menegazzia*, *Mycobilimbia*, *Ochrolechia*, *Parmelia*, *Peltigera*, *Pertusaria*, *Phaeographis*, *Pyxine*, *Rhizocarpon*, *Sulcaria*, and *Xanthoparmelia*. He described a total of four new genera, 74 new species of lichens (Table 1) and proposed 68 new combinations (Table 2). The book 'A key to the microlichens of India, Nepal and Sri Lanka', published by Dr. Awasthi in 1991 is a highly sought after literature for the identification of crustose lichens in the Indian subcontinent till date. Whereas the key for identification of macrolichens was initially published in 1998 and later replaced by him with much updated key 'A compendium of the macrolichens from India' in 2007. He also wrote a book on general biology of lichens 'A handbook on lichens' which is well adopted to Indian readers as it quotes local examples. Further, in the book 'Lichenology in Indian Subcontinent' he provided a checklist of lichens for the subcontinent. A complete list of publications by Dr. Awasthi is given in Table 4.

Dr. Awasthi established herbarium LWU in University of Lucknow and a personal lichen herbarium AWAS. Both the herbaria are now transferred to herbarium LWG of CSIR-NBRI on a permanent loan basis and references to these specimens are cited as LWG-LWU and LWG-AWAS as an acknowledgement of the original herbaria.

His personal library comprised of rare, ancient as well as modern literature. The bulk of this literature are now transferred to library of CSIR-NBRI.

Dr. Awasthi guided eight students for Ph.D., among them few continued lichen research such as Drs. K.P. Singh, L.R. Sharma and D.K. Upreti. Interestingly, Dr. Ajay Singh who established lichen research centre at CSIR-NBRI also carried out his Ph.D. work under the supervision of Dr. Awasthi. The lichen researchers all over the world have described two new genera in the name of Dr. Awasthi and dedicated 21 species (Table 3). For his outstanding contribution to lichen research Dr. Awasthi was felicitated with Fellow of Indian Academy of Sciences (1978), Indian National Science Academy (1984), Professor P Maheshwari Lecture Award of INSA (1991) and prestigious Acharius Medal (1992) of International Association for Lichenology. Recently, International Association for Lichenology instituted 'Dharni Awasthi Award' for a prominent young researcher working and living in a low-income country who has completed a Ph.D. within five years prior to the application submission deadline. Similarly, the Indian Lichenological Society instituted 'Dr. D. D. Awasthi Memorial Lifetime Achievement Award' during the year 2017 and it is bestowed to a senior lichenologist for his/her outstanding contribution to lichenology of India.

Dr. Awasthi superannuated in 1982, but he continued working as an Emeritus Scientist at the University of Lucknow; INSA Senior Scientist and INSA Honorary Scientist till the year 2010. His 40-plus years of active lichen research came to an end only at his demise on 21st August 2011.

Table 1: Novel taxa described by Dr. Awasthi

New lichen genera described

- 1 *Cyclographina* D.D. Awasthi in Awasthi & Joshi, *Norweg. J. Bot.* 26(3): 169 (1979) = *Diorygma* Eschw., *Syst. Lich.*: 25 (1824)
- 2 *Flavocetrariella* D.D. Awasthi, *A compendium of the macrolichens from India, Nepal and Sri Lanka*: 161 (2007)
- 3 *Heppsora* D.D. Awasthi & Kr.P. Singh, *Bryologist* 80(3): 537 (1977)
- 4 *Parmelaria* D.D. Awasthi, *J. Hattori Bot. Lab.* 63: 368 (1987) = *Parmotrema* A. Massal., *Atti Inst. Veneto Sci. Lett., ed Arti, Sér.* 35: 248 (1860) [1859-1860]

New species described

- 1 *Alectoria confusa* D.D. Awasthi, *Proc. Indian Acad. Sci., Sect. B* 72(4): 152 (1970) = *Bryoria confusa* (D.D. Awasthi) Brodo & D. Hawksw., *Op. Bot.* 42: 155 (1977)
- 2 *Anaptychia pellucida* D.D. Awasthi, *Proc. Indian Acad. Sci.* 45: 136 (1957) = *Heterodermia pellucida* (D.D. Awasthi) D.D. Awasthi, *Geophytology* 3(1): 114 (1973)
- 3 *Anaptychia pseudoroemeri* D.D. Awasthi & S.R. Singh, *Indian J. Forest.* 1(2): 139 (1978)
- 4 *Brigantiaea nigra* D.D. Awasthi in Awasthi & Srivastava, *Proc. Indian Acad. Sci., Pl. Sci.* 99(3): 172 (1989) = *Lopadium nigrum* (D.D. Awasthi) Kr.P. Singh & G.P. Sinha, *Indian lichens - An annotated checklist*: 13 (2010)
- 5 *Bryoria levis* D.D. Awasthi in Awasthi & Awasthi, *Candollea* 40(1): 310 (1985)
- 6 *Buellia palniensis* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 188 (1981)

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- 7 *Buellia almorensis* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 173 (1981)
- 8 *Buellia confusa* D.D. Awasthi, *Biblioth. Lichenol.* 40: 2 (1991)
- 9 *Buellia flavelloides* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 177 (1981)
- 10 *Buellia hemispherica* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 186 (1981)
- 11 *Buellia indica* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 186 (1981)
- 12 *Buellia meghalayensis* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 187 (1981)
- 13 *Buellia nilgiriensis* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 187 (1981)
- 14 *Buellia pinicola* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 181 (1981)
- 15 *Buellia quartziana* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 189 (1981)
- 16 *Buellia subglaziouana* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 190 (1981)
- 17 *Buellia subsororioides* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 191 (1981)
- 18 *Buellia substigma* S.R. Singh & D.D. Awasthi, *Biol. Mem.* 6(2): 191 (1981)
- 19 *Catillaria versicolor* G. Pant & D.D. Awasthi, *Proc. Indian Acad. Sci., Pl. Sci.* 99(4): 381 (1989)
- 20 *Catillaria nilgiriensis* G. Pant & D.D. Awasthi, *Proc. Indian Acad. Sci., Pl. Sci.* 99(4): 380 (1989)
- 21 *Catillaria obscura* G. Pant & D.D. Awasthi, *Proc. Indian Acad. Sci., Pl. Sci.* 99(4): 380 (1989)
- 22 *Coenogonium himalayense* G. Pant & D.D. Awasthi in Awasthi, *Biblioth. Lichenol.* 40: addendum [2] (1991)
- 23 *Diplotomma himalayense* S.R. Singh & D.D. Awasthi, *Geophytology* 19(2): 175 (1990) [1989] = *Buellia himalayensis* (S.R. Singh & D.D. Awasthi) A. Nordin, *Symb. Bot. Upsal.* 33(no. 1): 68 (2001)
- 24 *Diplotomma megasporum* S.R. Singh & D.D. Awasthi, *Geophytology* 19(2): 177 (1990) [1989] = *Buellia megaspora* (S.R. Singh & D.D. Awasthi) A. Nordin, *Symb. Bot. Upsal.* 33(1): 72 (2000)
- 25 *Dirinaria confusa* D.D. Awasthi, *Biblioth. Lichenol.* 2: 56 (1975)
- 26 *Graphis longispora* D.D. Awasthi & S.R. Singh, *Norweg. J. Bot.* 24(1): 3 (1977)
- 27 *Helminthocarpon radiatum* D.D. Awasthi & S.R. Singh, *Norweg. J. Bot.* 24(1): 7 (1977) = *Diorygma radiatum* (D.D. Awasthi & S.R. Singh) Kr.P. Singh & Swarnal., *Indian J. Forest.* 32(1): 179 (2008)
- 28 *Heppia trichophora* D.D. Awasthi & S.R. Singh, *Norweg. J. Bot.* 26(2): 92 (1979)
- 29 *Heppisora indica* D.D. Awasthi & Kr.P. Singh, *Bryologist* 80(3): 537 (1977)
- 30 *Heterodermia chondroidea* W.A. Weber & D.D. Awasthi, *Bryologist* 74(2): 181 (1971)
- 31 *Hypogymnia alpina* D.D. Awasthi, *Kavaka* 12(2): 91 (1985) [1984]
- 32 *Laurera bispora* D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 15 (2000) = *Astrothelium andamanicum* (Makhija & Patw.) Aptroot & Lücking, *Lichenologist* 48(6): 830 (2016)
- 33 *Laurera andamanica* D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991)
- 34 *Leptogium askotense* D.D. Awasthi in Awasthi & Aklitar, *Norweg. J. Bot.* 24(2): 63 (1977)
- 35 *Leptogium indicum* D.D. Awasthi & Akhatar, *Geophytology* 8(2): 197 (1979)
- 36 *Lopadium austroindicum* D.D. Awasthi & Upreti, *Curr. Sci.* 50(18): 822 (1981) = *Thecaria austroindica* (D.D. Awasthi & Upreti) Kr.P. Singh & G.P. Sinha, *Indian lichens - An annotated checklist*: 13 (2010)
- 37 *Mycoblastus indicus* D.D. Awasthi & M.R. Agarwal [as '*indicum*'], *Curr. Sci.* 37: 84 (1968) = *Malmidea indica* (D.D. Awasthi & M.R. Agarwal) Hafellner & T. Sprib. in Kalb, Rivas Plata, Lücking & Lumbsch, *Lichenologist* 46: 463 (2011)
- 38 *Parmelaria subthomsonii* D.D. Awasthi, *J. Hattori Bot. Lab.* 63: 370 (1987) = *Parmotrema subthomsonii* (D.D. Awasthi) A. Crespo, Divakar & Elix in Crespo et al., *Taxon* 59(6): 1746 (2010)
- 39 *Parmelia microlobulata* D.D. Awasthi, *Biol. Mem.* 1 (1-2): 182 (1977) [1976] = *Hypotrachyna microlobulata* (D.D. Awasthi) Divakar, A. Crespo, Sipman, Elix & Lumbsch in Divakar, Crespo, Núñez-Zapata, Flakus, Sipman, Elix & Lumbsch, *Phytotaxa* 132(1): 34 (2013)
- 40 *Parmelia pindarensis* D.D. Awasthi & S.R. Singh, *Biol. Mem.* 1 (1-2) 1: 185 (1977) [1976] = *Hypotrachyna pindarensis* (D.D. Awasthi & S. R. Singh) D.D. Awasthi, *A compendium of the macrolichens from India, Nepal and Sri Lanka*: 223 (2007)

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- 41 *Parmelia pseudobitteriana* D.D. Awasthi, *Curr. Sci.* 26: 123 (1957) = *Hypogymnia pseudobitteriana* (D.D. Awasthi) D.D. Awasthi, *Geophytology* 1: 101 (1971)
- 42 *Parmelia mussooriensis* D.D. Awasthi, *Indian J. Forest.* 1(1-2): 146 (1978) = *Parmelina mussooriensis* (D.D. Awasthi) D.D. Awasthi, *Indian J. Forest.* 21(1): 43 (1998)
- 43 *Peccania hoeegii* D.D. Awasthi [as 'höegii'], *Proc. Indian Acad. Sci.* 45: 137 (1957)
- 44 *Peltigera pindarensis* D.D. Awasthi & M. Joshi, *Kavaka* 10: 58 (1982)
- 45 *Pertusaria colorata* D.D. Awasthi & Preeti Srivast., *Bryologist* 96(2): 210 (1993) = *Lepra colorata* (D.D. Awasthi & Preeti Srivast.) Q. Ren, *Mycosystema* 38(11): 1845 (2019)
- 46 *Pertusaria maculiformis* D.D. Awasthi [as 'maculaeformis'], *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 15 (2000)
- 47 *Pertusaria amarkantakana* Preeti Srivast. & D.D. Awasthi, *Bryologist* 96(2): 210 (1993)
- 48 *Pertusaria himalayensis* D.D. Awasthi & Preeti Srivast., *Bryologist* 96(2): 212 (1993)
- 49 *Pertusaria idukkiensis* D.D. Awasthi & Preeti Srivast., *Bryologist* 96(2): 212 (1993)
- 50 *Pertusaria indica* Preeti Srivast. & D.D. Awasthi, *Bryologist* 96(2): 212 (1993)
- 51 *Pertusaria nigrescens* Preeti Srivast. & D.D. Awasthi, *Bryologist* 96(2): 214 (1993)
- 52 *Pertusaria rimosa* D.D. Awasthi & Preeti Srivast., *Bryologist* 96(2): 214 (1993)
- 53 *Pertusaria splendens* D.D. Awasthi & Preeti Srivast., *Bryologist* 96(2): 215 (1993)
- 54 *Phaeographis hypoglaucoides* Kr.P. Singh & D.D. Awasthi, *Bull. Bot. Surv. India* 21(1-4): 109 (1981) [1979] = *Kalbographa hypoglaucoides* (Kr.P. Singh & D.D. Awasthi) Kr.P. Singh & Pushpi Singh, *Lichenologist* 49(5): 529 (2017)
- 55 *Phaeographis nilgiriensis* Kr.P. Singh & D.D. Awasthi, *Bull. Bot. Surv. India* 21(1-4): 105 (1981) [1979]
- 56 *Phaeographis submarcescens* var. *megaspora* Kr.P. Singh & D.D. Awasthi, *Bull. Bot. Surv. India* 21(1-4): 115 (1981) [1979]
- 57 *Phylliscum abuense* D.D. Awasthi & S.R. Singh, *Norweg. J. Bot.* 26(2): 92 (1979)
- 58 *Physcia melanotricha* D.D. Awasthi, *Proc. Indian Acad. Sci., Pl. Sci.* 45: 133 (1957) = *Awasthia melanotricha* (D.D. Awasthi) Essl., *Bryologist* 81(3): 445 (1978)
- 59 *Physcia abuensis* D.D. Awasthi & S.R. Singh, *Norweg. J. Bot.* 26(2): 93 (1979)
- 60 *Physcia gomukhensis* D.D. Awasthi & S.R. Singh, *Indian J. Forest.* 1(2): 144 (1978)
- 61 *Placopsis himalayensis* D.D. Awasthi, *Canad. J. Bot.* 46: 1028 (1968)
- 62 *Porina nilgiriensis* D.D. Awasthi & Kr.P. Singh, *Nordic J. Bot.* 19: 241 (1972)
- 63 *Porina palniensis* D.D. Awasthi & Kr.P. Singh, *Nordic J. Bot.* 19: 239 (1972)
- 64 *Psorella isidiophora* D.D. Awasthi & Kr.P. Singh, *Geophytology* 5(1): 40 (1975)
- 65 *Pyxine keralensis* D.D. Awasthi, *Phytomorphology* 30(4): 372 (1982) [1980]
- 66 *Pyxine austroindica* D.D. Awasthi, *Phytomorphology* 30(4): 364 (1982) [1980]
- 67 *Pyxine himalayensis* D.D. Awasthi, *Phytomorphology* 30(4): 371 (1982) [1980]
- 68 *Pyxine nilgiriensis* D.D. Awasthi, *Phytomorphology* 30(4): 374 (1982) [1980]
- 69 *Pyxine palniensis* D.D. Awasthi, *Phytomorphology* 30(4): 374 (1982) [1980]
- 70 *Rinodina conradii* var. *megaspora* D.D. Awasthi & M.R. Agarwal, *Can. J. Bot.* 46: 1030 (1968) = *Rinodina megaspora* (D.D. Awasthi & M.R. Agarwal) D.D. Awasthi, *Biblioth. Lichenol.* 40: 4 (1991)
- 71 *Stereocaulon himalayense* D.D. Awasthi & I.M. Lamb, *J. Hattori Bot. Lab.* 43: 269 (1977)
- 72 *Thelocarpon palniense* D.D. Awasthi & Kr.P. Singh [as 'palniensis'], *Geophytology* 5(1): 39 (1975)
- 73 *Thyrea indica* D.D. Awasthi & S.R. Singh, *Norweg. J. Bot.* 26(2): 94 (1979)
- 74 *Zahlbrucknerella indica* D.D. Awasthi & S.R. Singh, *Norweg. J. Bot.* 26(2): 95 (1979)

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Table 2: New combinations proposed by Dr. Awasthi

1	<i>Anthracothecium himalayense</i> (Räsänen) D.D. Awasthi, <i>Beih. Nova Hedwigia</i> 17: 23 (1965)
2	<i>Caloplaca handelii</i> (Zahlbr.) D.D. Awasthi, <i>Biblioth. Lichenol.</i> 40: 2 (1991)
3	<i>Caloplaca orissensis</i> (Räsänen) D.D. Awasthi, <i>Biblioth. Lichenol.</i> 40: 2 (1991)
4	<i>Cyclographina pruinosa</i> (Eschw.) D.D. Awasthi, <i>Norweg. J. Bot.</i> 26: 175 (1979) = <i>Diorygma pruinosa</i> (Eschw.) Kalb, Staiger & Elix, <i>Symb. Bot. Upsal.</i> 34(no. 1): 166 (2004)
5	<i>Dirinaria africana</i> (Müll. Arg.) D.D. Awasthi, <i>Biblioth. Lichenol.</i> 2: 40 (1975)
6	<i>Dirinaria applanata</i> (Fée) D.D. Awasthi, <i>J. Indian Bot. Soc.</i> 49: 135 (1970)
7	<i>Dirinaria consimilis</i> (Stirt.) D.D. Awasthi in Awasthi & Agarwal, <i>J. Indian Bot. Soc.</i> 49: 135 (1970)
8	<i>Dirinaria leopoldii</i> (Stein) D.D. Awasthi, <i>Biblioth. Lichenol.</i> 2: 89 (1975)
9	<i>Flavocetrariella leucostigma</i> (Lév.) D.D. Awasthi, <i>A compendium of the macrolichens from India, Nepal and Sri Lanka</i> : 162 (2007)
10	<i>Flavocetrariella melaloma</i> (Nyl.) D.D. Awasthi, <i>A compendium of the macrolichens from India, Nepal and Sri Lanka</i> : 163 (2007) = <i>Nephromopsis melaloma</i> (Nyl.) A. Thell & Randlane in Thell, Randlane, Saag & Kärnefelt, <i>Mycol. Progr.</i> 4(4): 311 (2005)
11	<i>Graphina obtecta</i> var. <i>tuberculosa</i> (Stirt.) D.D. Awasthi & Kr.P. Singh, <i>Curr. Sci.</i> 42(18): 656 (1973) = <i>Diorygma tuberculosa</i> (Stirt.) Kalb, Staiger & Elix, <i>Symb. Bot. Upsal.</i> 34(no. 1): 177 (2004)
12	<i>Graphina subtorquens</i> (Nyl.) D.D. Awasthi, <i>Beih. Nova Hedwigia</i> 17: 54 (1965) = <i>Anomomorpha subtorquens</i> (Nyl.) Staiger, <i>Biblioth. Lichenol.</i> 85: 94 (2002)
13	<i>Graphina subintricata</i> (Kremp.) D.D. Awasthi, <i>Biblioth. Lichenol.</i> 40: 2 (1991)
14	<i>Heterodermia angustiloba</i> (Müll. Arg.) D.D. Awasthi, <i>Geophytology</i> 3: 113 (1973)
15	<i>Heterodermia diademata</i> (Taylor) D.D. Awasthi, <i>Geophytology</i> 3: 113 (1973)
16	<i>Heterodermia dissecta</i> (Kurok.) D.D. Awasthi, <i>Geophytology</i> 3: 113 (1973)
17	<i>Heterodermia flabellata</i> (Fée) D.D. Awasthi, <i>Geophytology</i> 3: 113 (1973)
18	<i>Heterodermia hypocaesia</i> (Yasuda ex Räsänen) D.D. Awasthi, <i>Geophytology</i> 3: 113 (1973) = <i>Polyblastidium hypocaesium</i> (Yasuda ex Räsänen) Kalb in Mongkolsuk, Meesim, Poengsungnoen, Buaruang, Schumm & Kalb, <i>Phytotaxa</i> 235(1): 41 (2015)
19	<i>Heterodermia isidiophora</i> (Nyl.) D.D. Awasthi, <i>Geophytology</i> 3: 114 (1973)
20	<i>Heterodermia leucomelos</i> f. <i>albociliata</i> (Hue) D.D. Awasthi, <i>Geophytology</i> 3(1): 114 (1973) = <i>Leucodermia leucomelos</i> (L.) Kalb in Mongkolsuk, Meesim, Poengsungnoen, Buaruang, Schumm & Kalb, <i>Phytotaxa</i> 235(1): 35 (2015)
21	<i>Heterodermia podocarpa</i> (Bél.) D.D. Awasthi, <i>Geophytology</i> 3: 114 (1973)
22	<i>Heterodermia togashii</i> (Kurok.) D.D. Awasthi, <i>Geophytology</i> 3(1): 114 (1973) = <i>Polyblastidium togashii</i> (Kurok.) Kalb in Mongkolsuk, Meesim, Poengsungnoen, Buaruang, Schumm & Kalb, <i>Phytotaxa</i> 235(1): 47 (2015)
23	<i>Heterodermia albidiflava</i> (Kurok.) D.D. Awasthi, <i>Geophytology</i> 3(1): 113 (1973)
24	<i>Heterodermia awasthii</i> (Kurok.) D.D. Awasthi, <i>Geophytology</i> 3(1): 113 (1973)
25	<i>Heterodermia himalayensis</i> (D.D. Awasthi) D.D. Awasthi, <i>Geophytology</i> 3(1): 113 (1973)
26	<i>Heterodermia incana</i> (Stirt.) D.D. Awasthi, <i>Geophytology</i> 3(1): 114 (1973)
27	<i>Heterodermia indica</i> (H. Magn.) D.D. Awasthi, <i>Geophytology</i> 3(1): 114 (1973)
28	<i>Heterodermia pellucida</i> (D.D. Awasthi) D.D. Awasthi, <i>Geophytology</i> 3(1): 114 (1973)
29	<i>Heterodermia punctifera</i> (Kurok.) D.D. Awasthi, <i>Geophytology</i> 3(1): 114 (1973)
30	<i>Heterodermia rubescens</i> (Räsänen) D.D. Awasthi, <i>Geophytology</i> 3(1): 114 (1973)
31	<i>Hypogymnia pseudobitteriana</i> (D.D. Awasthi) D.D. Awasthi, <i>Geophytology</i> 1: 101 (1971)
32	<i>Hypogymnia thomsoniana</i> (Müll. Arg.) D.D. Awasthi, <i>Kavaka</i> 12(2): 94 (1985) [1984]
33	<i>Hypogymnia wattiana</i> (Müll. Arg.) D.D. Awasthi, <i>Kavaka</i> 12(2): 95 (1985) [1984]
34	<i>Hypogymnia zeylanica</i> (R. Sant.) D.D. Awasthi & Kr.P. Singh, <i>Geophytology</i> 1(2): 100 (1971)

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- 35 *Hypotrachyna pindarensis* (D.D. Awasthi & S.R. Singh) D.D. Awasthi, *A compendium of the macrolichens from India, Nepal and Sri Lanka*: 223 (2007)
- 36 *Mycobilimbia hunana* (Zahlbr.) D.D. Awasthi in Awasthi & Mathur, *Proc. Indian Acad. Sci., Pl. Sci.* 97(6): 501 (1987)
- 37 *Mycobilimbia philippina* (Vain.) D.D. Awasthi in Awasthi & Mathur, *Proc. Indian Acad. Sci., Pl. Sci.* 97(6): 501 (1987)
- 38 *Myriotrema meghalayense* (Patw. & Nagarkar) D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991) = *Chapsa meghalayensis* (Patw. & Nagarkar) Lumbsch & Divakar in Rivas Plata, Lücking, Sipman, Mangold, Kalb & Lumbsch, *Lichenologist* 42(2): 183 (2010)
- 39 *Myriotrema norstictideum* (Patw. & Nagarkar) D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991)
- 40 *Myriotrema pertusarioides* (Nagarkar, Sethy & Patw.) D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991) = *Ocellularia pertusarioides* (Nagarkar, Sethy & Patw.) Lücking in Lücking, Mangold & Lumbsch, *Herzogia* 29(2/1): 509 (2016)
- 41 *Myriotrema tarmuguliense* (Sethy, Nagarkar & Patw.) D.D. Awasthi [as '*tarmaguliense*'], *Biblioth. Lichenol.* 40: 3 (1991) = *Leucodecton tarmuguliense* (Sethy, Nagarkar & Patw.) Frisch [as '*tarmaguliense*'], *Biblioth. Lichenol.* 92: 155 (2006)
- 42 *Nephromopsis hypotrachyna* (Müll. Arg.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 15 (2000) = *Cetrellopsis hypotrachyna* (Müll. Arg.) Randle & Saag, *Mycotaxon* 87: 482 (2003)
- 43 *Ocellularia guptei* (Nagarkar, Sethy & Patw.) D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991)
- 44 *Ocellularia jamesii* (Patw. & C.R. Kulk.) D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991)
- 45 *Ocellularia mahabalei* (Patw. & C.R. Kulk.) D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991)
- 46 *Ocellularia neomasonhalei* (Patw., Sethy & Nagarkar) D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991)
- 47 *Ocellularia submicrosporoides* (Nagarkar, Sethy & Patw.) D.D. Awasthi, *Biblioth. Lichenol.* 40: 3 (1991) = *Melanotrema submicrosporoides* (Nagarkar, Sethy & Patw.) S. Joshi & Lücking in Joshi, Upreti, Divakar, Lumbsch & Lücking, *Lichenologist* 50(6): 648 (2018)
- 48 *Parmelaria thomsonii* (Stirt.) D.D. Awasthi [as '*thompsonii*'], *J. Hattori Bot. Lab.* 63: 368 (1987) = *Parmotrema thomsonii* (Stirt.) A. Crespo, Divakar & Elix in Crespo et al., *Taxon* 59(6): 1746 (2010)
- 49 *Parmelia dodapetta* (Hale & Patw.) D.D. Awasthi, *Biol. Mem. 1 (1-2)* 1: 171 (1977) = *Remototrachyna dodapetta* (Hale & Patw.) Divakar & A. Crespo in Divakar, Lumbsch, Ferencová, Prado & Crespo, *Am. J. Bot.* 97(4): 586 (2010)
- 50 *Parmelina mussooriensis* (D.D. Awasthi) D.D. Awasthi, *Indian J. Forest.* 21(1): 43 (1998)
- 51 *Pertusaria neilgherrensis* (Müll. Arg.) D.D. Awasthi & P. Srivast. in Awasthi, *Biblioth. Lichenol.* 40: 3 (1991)
- 52 *Phaeophyscia nepalensis* (Poelt) D.D. Awasthi, *J. Hattori Bot. Lab.* 65: 208 (1988) [1989] = *Physciella nepalensis* (Poelt) Essl., *Mycologia* 78(1): 96 (1986)
- 53 *Phaeophyscia pyrrophora* (Poelt) D.D. Awasthi & M. Joshi, *Indian J. Mycol. Res.* 16(2): 278 (1978)
- 54 *Phlyctis himalayensis* (Nyl.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 15 (2000)
- 55 *Pleurotrema bisporum* (Makhija & Patw.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 16 (2000) = *Arthopyrenia bispora* (Makhija & Patw.) Kr.P. Singh & G.P. Sinha, *Indian lichens - An annotated checklist*: 12 (2010)
- 56 *Pleurotrema complanatum* (Makhija & Patw.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 16 (2000)
- 57 *Pleurotrema flavopallidum* (Makhija & Patw.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 16 (2000)
- 58 *Pleurotrema immersum* (Makhija & Patw.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 16 (2000) = *Megalotremis immersa* (Makhija & Patw.) Lücking & Aptroot in Hongsanan et al., *Fungal Diversity*: 10.1007/s13225-020-00462-6, [93] (2020)
- 59 *Pleurotrema indicum* (Makhija & Patw.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 16 (2000)
- 60 *Pleurotrema macrosporum* (Makhija & Patw.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 16 (2000) = *Arthopyrenia agasthiensis* Kr.P. Singh & G.P. Sinha, *Indian J. Forest.* 38: 99 (2015)
- 61 *Pleurotrema tarmugliense* (Makhija & Patw.) D.D. Awasthi, *Lichenology in Indian Subcontinent - A supplement to "A hand book of lichens"*: 17 (2000)

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- 62 *Pleurotrema verrucosum* (Makhija & Patw.) D.D. Awasthi, *Biblioth. Lichenol.* 40: 4 (1991) = *Megalotremis verrucosa* (Makhija & Patw.) Aptroot, *Biblioth. Lichenol.* 44: 126 (1991)
- 63 *Protoblastenia manipurensis* (Kr.P. Singh) G. Pant & D.D. Awasthi, *Proc. Indian Acad. Sci., Pl. Sci.* 99(4): 382 (1989) = *Ramboldia manipurensis* (Kr.P. Singh) Kalb, Lumbsch & Elix, *Nova Hedwigia* 86(1-2): 35 (2008)
- 64 *Rhizoplaca chrysoleuca* var. *australis* (Poelt) D.D. Awasthi, *A compendium of the macrolichens from India, Nepal and Sri Lanka*: 445 (2007) = *Omphalodina chrysoleuca* (Sm.) S.Y. Kondr., Lőkös & Farkas in Kondratyuk, Lőkös, Jang, Hur & Farkas, *Acta Bot. Hung.* 61(1-2): 154 (2019)
- 65 *Rinodina megaspora* (D.D. Awasthi & M.R. Agarwal) D.D. Awasthi, *Biblioth. Lichenol.* 40: 4 (1991)
- 66 *Sarcographina glyphiza* (Nyl.) Kr.P. Singh & D.D. Awasthi, *Bull. Bot. Surv. India* 20(1-4): 139 (1979) [1978] = *Sarcographa glyphiza* (Nyl.) Kr.P. Singh & G.P. Sinha, *Indian lichens - An annotated checklist*: 13 (2010)
- 67 *Sticta praetextata* (Räsänen) D.D. Awasthi in Joshi & Awasthi, *Biol. Mem.* 7(2): 185 (1982) = *Dendricoscicta praetextata* (Räsänen) B. Moncada & Lücking in Moncada, Lücking & Betancourt-Macuase, *Lichenologist* 45(2): 223 (2013)
- 68 *Thelotrema tetrasporum* (Stirt.) D.D. Awasthi, *Beih. Nova Hedwigia* 17: 123 (1965)

Table 3: Novel taxa dedicated to Dr. Awasthi

New genera dedicated	
1	<i>Awasthia</i> Essl., <i>Bryologist</i> 81(3): 445 (1978)
2	<i>Awasthiella</i> Kr.P. Singh, <i>Norweg. J. Bot.</i> 27(1): 34 (1980)
New lichen species dedicated	
1	<i>Anaptychia awasthii</i> Kurok., <i>Beih. Nova Hedwigia</i> 6: 88 (1962) = <i>Heterodermia awasthii</i> (Kurok.) D.D. Awasthi, <i>Geophytology</i> 3(1): 113 (1973)
2	<i>Anthracothecium awasthii</i> Ajay Singh, <i>Indian J. Bio Res.</i> 1(1): 82 (1985)
3	<i>Arthothelium awasthii</i> Patw. & Makhija, <i>Biovigyanam</i> 7(2): 126 (1981)
4	<i>Bottaria awasthii</i> Makhija & Patw., <i>J. Econ. Taxon. Bot.</i> 10(2): 497 (1988) [1987]
5	<i>Caloplaca awasthii</i> Y. Joshi & Upreti, <i>Bot. J. Linn. Soc.</i> 155(1): 149 (2007) = <i>Fulgogasparrea awasthii</i> (Y. Joshi & Upreti) S.Y. Kondr. Upreti & A. Thell in Mishra, Upreti, Sanjeeva Nayaka, Thell, Kärnefelt, Hur, Sinha & Kondratyuk, <i>Acta Bot. Hung.</i> 62(3-4): 349 (2020)
6	<i>Cladonia awasthiana</i> Ahti & Upreti, <i>Biblioth. Lichenol.</i> 88: 9 (2004)
7	<i>Cryptothecia awasthii</i> Makhija & Patw. [as 'awasthi'], <i>Biovigyanam</i> 11(1): 4 (1985) = <i>Mycoporum awasthii</i> (Makhija & Patw.) Kr.P. Singh & G.P. Sinha, <i>Indian lichens - An annotated checklist</i> : 13 (2010)
8	<i>Diploschistes awasthii</i> G. Pant & Upreti, <i>Lichenologist</i> 25(1): 38 (1993)
9	<i>Gallowayella awasthiana</i> S.Y. Kondr. & D.K. Upreti in Kondratyuk, Lőkös, Halda, Farkas, Upreti, Thell, Woo, Oh & Hur, <i>Acta Bot. Hung.</i> 60(1-2): 141 (2018)
10	<i>Graphina awasthii</i> Dharne & Roych., <i>Bull. Bot. Surv. India</i> 10: 267 (1969) (current status not known)
11	<i>Graphina awasthii</i> Patw. & Nagarkar, <i>Biovigyanam</i> 5(2): 133 (1979) = <i>Graphis awasthii</i> Kr. P. Singh & Swarnal., <i>Indian J. Forest.</i> 32(1): 180 (2008)
12	<i>Graphis awasthii</i> Kr.P. Singh & Swarnal., <i>Indian J. Forest.</i> 32(1): 180 (2008)
13	<i>Hypotrachyna awasthii</i> Hale & Patw., <i>Bryologist</i> 77(4): 637 (1975) [1974] = <i>Remototrachyna awasthii</i> (Hale & Patw.) Divakar & A. Crespo in Divakar, Lumbsch, Ferencová, Prado & Crespo, <i>Am. J. Bot.</i> 97(4): 586 (2010)
14	<i>Hypotrachyna awasthii</i> Hale & Patw., <i>Bryologist</i> 77(4): 637 (1975) [1974] = <i>Remototrachyna awasthii</i> (Hale & Patw.) Divakar & A. Crespo in Divakar, Lumbsch, Ferencová, Prado & Crespo, <i>Am. J. Bot.</i> 97(4): 586 (2010)
15	<i>Lecidea awasthiana</i> Räsänen, <i>Arch. Soc. Zool. Bot. Fenn. Vanamo</i> 6(no. 2): 85 (1952)
16	<i>Lobarina awasthiana</i> Räsänen, <i>Arch. Soc. Zool. Bot. Fenn. Vanamo</i> 5(no. 1): 28 (1950) [1951] = <i>Lobarina awasthiana</i> (Räsänen) D.D. Awasthi, <i>Beih. Nova Hedwigia</i> 17: 72 (1965)
17	<i>Nephromopsis awasthii</i> G.K. Mishra, Nayaka & Upreti in Mishra, Nayaka, Upreti, Kondratyuk, Thell & Kärnefelt, <i>Mycotaxon</i> 137(2): 306 (2022)

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- 18 *Parmotrema awasthii* Divakar & Upreti, *Lichenologist* 35(1): 21 (2003)
- 19 *Phaeographina awasthii* Patw. & C.R. Kulk., *Norweg. J. Bot.* 26(1): 49 (1979) = *Pallidogramme awasthii* (Patw. & C.R. Kulk.) Kr.P. Singh & Pushpi Singh, *Lichenologist* 49(5): 529 (2017)
- 20 *Pilophorus awasthianus* Räsänen [as '*Pilophoron awasthianum*'], *Arch. Soc. Zool. Bot. Fenn. Vanamo* 5(no. 1): 28 (1950) [1951]
- 21 *Sporopodium awasthianum* Kr. P. Singh & Pinokiyo, *Lichenologist* 40(1): 26 (2008)

Table 4: Publication list of Dr. Awasthi

- 1 Biswas K and Awasthi DD (1948). Distribution of Indian lichens. *Proc. 35th Indian Sci. Congr.* 3: 216.
- 2 Awasthi DD (1954). A preliminary note on contributions to the lichen flora of eastern Nepal. *Proc. Indian Sci. Congr.* 41(3): 117.
- 3 Awasthi DD (1954). Two new species of *Cetraria* from eastern Nepal. *Proc. Indian Sci. Congr.* 41(3): 116.
- 4 Awasthi DD (1957). A new species of *Parmelia* from Kodaikanal, South India. *Curr. Sci.* 26: 123-124.
- 5 Awasthi DD (1957). On Indian species of lichen genus *Usnea*. *Proc. 44th Indian Sci. Congr.* 3: 228.
- 6 Awasthi DD (1957). On new lichens from the Himalayas I. *Proc. Indian Acad. Sci.* 45: 129-139.
- 7 Awasthi DD (1960). Contributions to the lichen flora of India and Nepal. I. The genus *Physcia* (Ach.) Vain. *J. Indian Bot. Soc.* 39: 1-21.
- 8 Awasthi DD (1960). Contributions to the lichen flora of India and Nepal. II. The genus *Anaptychia* Körb. *J. Indian Bot. Soc.* 39(3): 415-442.
- 9 Awasthi DD (1960). On a collection of macrolichens by the Indian expedition to Cho-Oyu, East Nepal. *Proc. Indian Acad. Sci.* 51: 169-180.
- 10 Awasthi DD (1961). Some foliose and fruticose lichens from Assam and North-East Frontier Agency of India. *Proc. Indian Acad. Sci. Sect. B* 54(1): 22-44.
- 11 Awasthi DD (1963). Some noteworthy additions to the lichen flora of India and Nepal. *Univ. Colorado Stud., Ser. in Biol.* 10: 28-36.
- 12 Awasthi DD (1964). New combinations in the genus *Dirinaria*. *Bryologist* 67(3): 369-372.
- 13 Awasthi DD (1965). *Catalogue of lichens from India, Nepal, Pakistan, and Ceylon*. Beihefte zur Nova Hedwigia, Heft 17. Verlag von J. Cramer, Weinheim. 137 pp.
- 14 Awasthi DD and Agarwal M (1968). A new species of *Mycoblastus* from India. *Curr. Sci.* 37: 84-85.
- 15 Awasthi DD and Agarwal MR (1968). New or otherwise interesting lichens from Darjeeling District, India. *Canad. J. Bot.* 46: 1025-1030.
- 16 Awasthi DD and Agarwal M (1969). On the species of *Cryptothecia* from Darjeeling District, India. *J. Indian Bot. Soc.* 48: 62-72.
- 17 Awasthi DD and Singh KP (1970). A notes on lichens from Kashmir, India. *Curr. Sci.* 39: 441-442.
- 18 Awasthi DD and Agarwal M (1970). An enumeration of lichens from the tropical and subtropical regions of Darjeeling District, India. *J. Indian Bot. Soc.* 49: 122-136.
- 19 Awasthi DD (1970). On *Alectoria acanthodes* Hue, *Alectoria confusa* sp. nov. and systematic position of the genus *Alectoria*. *Proc. Indian Acad. Sci.* 72(4): 149-155.
- 20 Weber WA and Awasthi DD (1971). A new species of *Heterodermia* (Physciaceae) from Colorado. *Bryologist* 74: 181-183.
- 21 Awasthi DD and Singh KP (1971). Additions to the lichen flora of India. *Geophytology* 1(2): 97-102.
- 22 Awasthi DD and Singh KP (1972). Foliicolous lichens from the Palni and Nilgiri Hills, India. *Proc. Indian Acad. Sci., Sect. A.* 76: 117-132.
- 23 Awasthi DD and Singh KP (1972). Four new taxa of lichens from Palni and Nilgiri Hills, India. *Norweg. J. Bot.* 19: 239-242.
- 24 Awasthi DD and Singh KP (1973). A note on the revision of some Graphidaceous lichen taxa. *Curr. Sci.* 42: 656-657.
- 25 Awasthi DD and Singh KP (1973). A synopsis of the foliicolous lichens from the Nilgiri and Palni hills, India. *Geophytology* 3: 13-25.

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- 26 Awasthi DD (1973). On the species of *Anaptychia* and *Heterodermia* from India and Nepal. *Geophytology* 3: 113-116.
- 27 Awasthi DD and Singh KP (1973). Species of the lichen genus *Phaeographina* in Indian subcontinent. *Kavaka* 1: 87-98.
- 28 Awasthi DD (1975). *A monograph of the lichen genus Dirinaria*. *Biblioth. Lichenol.* No. 2, J. Cramer, Lehre. 108 pp.
- 29 Awasthi DD and Singh KP (1975). Addition to the lichen flora of India-III. *Geophytology* 5(1): 110-112.
- 30 Awasthi DD (1975). Evolutionary trends in lichen symbiosis. In: Raychaudhuri SP, Varma A, Bhargava KS and Mehrotra BS (eds.). *Advances in Mycology and Plant Pathology*. Published by Prof. R.N. Tandon's Birthday Celebration Committee, New Delhi, pp. 125-130.
- 31 Awasthi DD (1975). Lichen flora of Pindari Glacier valley. *Geophytology* 5: 178-185.
- 32 Awasthi DD and Singh KP (1975). Three new taxa of lichens from Palni Hills, India. *Geophytology* 5: 39-42.
- 33 Awasthi DD (1976). Lichen genus *Parmelia* in India. I. Subgenera *Parmelia* and *Amphigymnia*. *Biol. Mem., Lichenol. Ser.* 1: 155-229.
- 34 Awasthi DD (1977). A general resume of the lichen flora of India. *Bull. Bot. Surv. India* 19(1-4): 301-306.
- 35 Awasthi DD and Singh KP (1977). Additions to the lichen flora of India-- IV- genus *Phylliscum* Nyl. ex. Massal. in India. *Geophytology* 7: 276-277.
- 36 Awasthi DD and Singh, SR (1977). Five new taxa of saxicolous lichens from Meghalaya, India. *Norweg. J. Bot.* 24: 1-8.
- 37 Awasthi DD and Singh KP (1977). *Heppsona*, a new lichen genus from India. *Bryologist* 80: 536-538.
- 38 Awasthi DD and Joshi M (1977). Macrolichens of Mussoorie Hills, Uttar Pradesh, India. *Geophytology* 7: 91-97.
- 39 Awasthi DD and Akhtar P (1977). The genus *Leptogium* (sect. *Mallotium*) in India. *Norweg. J. Bot.* 24: 59-71.
- 40 Awasthi DD and Singh SR (1977). The lichen genus *Rhizocarpon* (Ram.) Th. Fr. in India. *Kavaka* 5: 49-58.
- 41 Singh SR and Awasthi DD (1978). A note on some micro-lichens from Pachmarhi, Madhya Pradesh, India. *Geophytology* 8: 127-128.
- 42 Awasthi DD and Dange K (1978). Additions to the lichen flora of India V. *Natl. Acad. Sci. Lett.* 1: 11-13.
- 43 Awasthi DD and Sharma LR (1978). Additions to the lichen flora of Nepal-1. *Indian J. Bot.* 1: 139-141.
- 44 Awasthi DD and Joshi M (1978). Contribution to the lichen flora of Chakrata Hills, Uttar Pradesh, India. *Indian J. Mycol. Res.* 16: 269-278.
- 45 Awasthi DD and Singh KP (1978). Observations on some Graphidaceous lichen taxa. *Phyta* 1: 34-40.
- 46 Awasthi DD and Singh SR (1978). The lichen flora in the environs of Gangotri and Gomukh, India. I- The macrolichens. *Indian J. For. Res.* 1: 138-146.
- 47 Singh KP and Awasthi DD (1978). Two new species and two new combinations in Graphidaceae. *Bull. Bot. Surv. India* 20: 136-139.
- 48 Singh KP and Awasthi DD (1979). Lichen genus *Phaeographis* from India and Sri Lanka. *Bull. Bot. Surv. India* 21: 97-120.
- 49 Awasthi DD and Singh SR (1979). New or otherwise interesting lichens from Mt. Abu, Rajasthan, India. *Norweg. J. Bot.* 26: 91-97.
- 50 Awasthi DD and Joshi M (1979). The lichen genera *Helminthocarpon*, *Cyclographa*, and *Cyclographina* (gen. nov.). *Norweg. J. Bot.* 26: 165-177.
- 51 Awasthi DD and Akhtar P (1979). The lichen genus *Leptogium* (Sects. *Leptogium*, *Leptogiopsis* and *Homodium*) in India. *Geophytology* 8: 189-204.
- 52 Awasthi DD and Upreti DK (1980). A note on lichens from Lalbagh Gardens, Bangalore, India. *Indian J. Forest.* 3: 181-184.
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- 54 Awasthi DD (1980). Principles of classification of lichens. In: Nair P.K.K. (ed.): *Glimpses in Plant Research. Volume 5*. Vikas Publishing House, PVT Ltd., New Delhi, pp 53-61.
- 55 Awasthi DD (1980). *Pyxine* in India. *Phytomorphology* 30: 359-379.
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- 57 Awasthi DD and Upreti DK (1981). *Buellia isidiophora* and *Lopadium austroindicum*--two new species of lichens from India. *Curr. Sci.* 50: 821-823.
- 58 Awasthi DD (1981). Lichen genus *Parmelia* in India. II. Subgenera *Xanthoparmelia* (Vain.) Hale and *Melanoparmelia* (Hue) Essl. *Indian J. Forest.* 4: 198-204.
- 59 Singh SR and Awasthi DD (1981). The lichen genus *Buellia* in India. *Biol. Mem.* 6: 169-196.
- 60 Awasthi DD (1981). The typification of *Roccella montagnei*. *Bryologist* 84: 216-219.
- 61 Awasthi, DD (1982). Lichen genus *Cetraria* in India and Nepal. *Bull. Bot. Surv. India* 24(1-4): 1-27.
- 62 Awasthi DD and Joshi M (1982). Lichen genus *Peltigera* from India and Nepal. *Kavaka* 10: 47-62.
- 63 Joshi M and Awasthi DD (1982). The lichen family Stictaceae in India and Nepal. *Biol. Mem.* 7: 165-190.
- 64 Awasthi DD (1983). Present position, prospects and problems of lichenology in India. *Kavaka* 11: 1-10.
- 65 Awasthi DD (1983). Reproduction in lichens. *Phytomorphology* 33: 26-30.
- 66 Awasthi DD (1984). Lichen genus *Hypogymnia* and *Menegazzia* from India and Nepal. *Kavaka* 12: 87-97.
- 67 Awasthi G and Awasthi DD (1985). Lichen genera *Alectoria*, *Bryoria* and *Sulcaria* from India and Nepal. *Candollea* 40: 305-320.
- 68 Awasthi DD (1985). Lichen genus *Coccocarpia* from India. *Kavaka* 13: 83-86.
- 69 Awasthi DD and Upreti DK (1985). Lichen genus *Dermatocarpon* in India. *J. Econ. Taxon. Bot.* 7(1): 7-12.
- 70 Awasthi DD and Awasthi G (1985). Typification of *Usnea compressa* Taylor. *Lichenologist* 17: 309-311.
- 71 Awasthi DD (1986). Macrolichen taxa of Teloschistaceae from India. *Proc. Indian Acad. Sci. (Pl. Sci.)* 96: 227-231.
- 72 Awasthi DD (1987). A new position for *Platysmathomsonii* Stirton. *J. Hattori Bot. Lab.* 63: 367-372.
- 73 Awasthi DD and Tewari R (1987). Lichen genus *Ochrolechia* from Indian subcontinent. *Kavaka* 15(1-2): 23-27.
- 74 Awasthi DD and Mathur R (1987). Species of the lichen genera *Bacidia*, *Badimia*, *Fellhanera* and *Mycobilimbia* from India. *Proc. Indian Acad. Sci. (Pl. Sci.)* 97(6): 481-503.
- 75 Awasthi DD (1988). A key to the macrolichens of India and Nepal. *J. Hattori Bot. Lab.* 65: 207-302.
- 76 Srivastava P and Awasthi DD (1988). Lichen genus *Megalospora* from India. *Kavaka* 16: 8-12.
- 77 Awasthi DD (1988). Two interesting lichen taxa new to India. *Curr. Sci.* 57(3): 146-147.
- 78 Pant G and Awasthi DD (1989). Caliciales from India and Nepal. *Biovigyanam* 15(1): 3-27.
- 79 Awasthi DD and Srivastava P (1989). Lichen genera *Brigantiaea* and *Letrouitia* from India. *Proc. Indian Acad. Sci. (Pl. Sci.)* 99: 165-177.
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