

ADDITIONS TO THE FUNGI OF KERALA - II

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This is in continuation of the Note published earlier (Hosagoudar, 2006) in a series of additions to the fungi of Kerala that was published earlier by Hosagoudar *et al.* (1996).

Enumeration of species

***Asterolibertia hydnocarpi* Hosag. & Abraham**

On leaves of *Hydnocarpus marsupium*, Kombe, Thiruvananthapuram, 19.ii.1997, V.B. Hosagoudar TBGT 178, HClO 42536; *H. pentandra*, Kombe, Meenmutty, Thiruvananthapuram, 11.iii.1996, V.B. Hosagoudar TBGT 418, HClO 43989.

***Asterostomella alangii* Hosag. & Mohanan**

On leaves of *Alangium salvifolium*, TBGRI campus, Palode, Thiruvananthapuram, 16.xii.2000, M. Kamarudeen TBGT 419, HClO 44013; 5.i.2001, H. Biju TBGT 1873, HClO 46110; 8.ii.2001, H. Biju TBGT 1832, HClO 46069; Karakulam, Thiruvananthapuram, 26.ii.2003, G. Rajkumar TBGT 1185, HClO 45130.

Asterostomella boehmeriae* Hosag. *et al.

On leaves of *Boehmeria* sp., Chandanathode forest, Wyanad, 27.xii.2002, M. Kamarudeen & P.A. Jose TBGT 1028, HClO 44791.

***Asterostomella daphniphylli* Hosag. & Ravikumar**

On leaves of *Daphniphyllum neilgherrense*, Mannavan shola, Munnar, Idukki, 23.ix.1998, C.K. Biju TBGT 237, HClO 42950; 5.i.1999, C.K. Biju TBGT 375, HClO 43830; TBGT 402, HClO 44000; 2.vi.2000, C.K. Biju TBGT 376, HClO 43803; 1.i.2003, H. Biju & A. Manoj Kumar TBGT 1073, HClO 44836; *Daphniphyllum* sp., Gravel Banks, Munnar, Idukki, 10.x.2001, S. Shiburaj TBGT 604, HClO 44306; 18.xii.2001, S. Shiburaj TBGT 627, HClO 44307.

Asterostomella dilleniacearum* Hosag. *et al.

On leaves of *Dillenia pentagyna*, TBGRI campus, Palode, Thiruvananthapuram, 12.xii.2001, H. Biju TBGT 1830, HClO 46067; 18.xii.2001, H. Biju TBGT 1877, HClO 46114; Moozhiyar forest, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar TBGT 1984, HClO 46338; *Dillenia* sp., Peppara Wildlife Sanctuary, Thiruvananthapuram, 5.ii.1997, V.B. Hosagoudar TBGT 666, HClO 44309; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 728, HClO 44308; Vazhachal, Trissur, 23.x.2002, A. Manoj Kumar & H. Biju TBGT 1334, HClO 45173; Palode, Thiruvananthapuram, 11.vi.2003, M. Kamarudeen HClO 45102, TBGT 1157.

Asterostomella helicteridis* Hosag. *et al.

On leaves of *Helicteres isora*, Peppara Wildlife Sanctuary, Thiruvananthapuram, 3.ii.1997, V.B. Hosagoudar TBGT 133a, HClO 42502.

Asterostomella meliosmaticola* Hosag. *et al.

On leaves of *Meliosma* sp., Pachakanam, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar TBGT 1983, HClO 46337.

***Asterostomella micheliae* Hosag. & Goos**

On leaves of *Michelia nilagirica*, Mannavan Shola, Munnar, Idukki, 11.v.1999, C.K. Biju TBGT 1293, HClO 45255.

***Asterostomella otonephelii* Hosag.**

On leaves of *Otonephelium stipulacearum*, Uppupara, Pachakanam, Pathanamthitta, 16.xii.2004, V.B. Hosagoudar TBGT 1752, HClO 45988.

***Asterostomella scolopiae-crenatae* Hosag. & Abraham**

On leaves of *Scolopia crenata*, Rajamala, Munnar, Idukki, 15.viii.1998, C.K. Biju TBGT 1309, HClO 45271; 14.ix.1999, C.K. Biju TBGT 1259, HClO 45222; Flacourtiaceae member, Sairandhri, Silent Valley, Palghat, 13.xii.2003, V.B. Hosagoudar *et al.* HClO 45761, TBGT 1510.

***Caecoma keralense* Hosag.**

On leaves and tender growing shoot tips of *Cinnamomum malabratrum*, Pathanamthitta, 6.iii.2005, Mathew Dan TBGT 1790, HClO 46026; Shendurney Wildlife Sanctuary, Kollam, TBGT 1592, HClO 46180; Tenmala, Kollam, 14.i.2003, V.B. Hosagoudar *et al.* TBGT 1112, HClO 44884.

***Capnodiastrum guaranticum* Speg.**

On leaves of *Trema orientalis*, Adivaram, Kalpetta, Wyanad, 18.ii.2000, C.K. Biju TBGT 421, HClO 44002.

***Cercospora tectonae* Stev.**

On leaves of *Tectona grandis*, Nedumangad, Thiruvananthapuram, 12.xii.2001, V.B. Hosagoudar TBGT 634, HClO 44313.

***Chaetothyrum* sp.**

On leaves of *Ficus religiosa*, Nedumangad, Thiruvananthapuram, 8.vi.2002, Ishwaragowda V. Patil TBGT 1957, HClO 46311; *Knema attenuata*, Kulathupuzha, Kollam, 13.i.2005, V.B. Hosagoudar TBGT 1980, HClO 46334; *Rosa* sp., Nedumangad, Thiruvananthapuram, 29.vii.2002, Mahanteshagowda V. Patil TBGT 1972, HClO 46326.

***Cintractia* sp.**

On leaves of *Cyperus* sp., Sowparnika, Manja road, Nedumangad, Thiruvananthapuram, 10.ix.2003, V.B. Hosagoudar TBGT 1229, HClO 45193.

***Cirsosia globulifera* (Pat.) Arn.**

On leaves of *Calamus* sp., TBGRI campus, Thiruvananthapuram, 20.ii.1996, V.B. Hosagoudar TBGT 512, HClO 44143; Shendurney, Kollam, 14.i.2003, V.B. Hosagoudar TBGT 40, HClO 44853.

***Clasterosporium flagellatum* (Sydow) Ellis**

On leaves of *Scleria hebecarpa*, Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 1218, HClO 45163; *Scleria* sp., forest area, Kusavoor, Palode, Thiruvananthapuram, 22.ix.2002, A. Manoj Kumar TBGT 977, HClO 44696.

***Clasterosphaeria indica* Hosag.**

On leaves of *Scleria hebecarpa*, Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 1218, HClO 45163.

***Colemaniella assorii* Agnihotrudu**

On leaves of *Terminalia bellirica*, Peppara Wildlife Sanctuary, Thiruvananthapuram, 3.ii.1997, V.B. Hosagoudar TBGT 423, HClO 43956; Kombe, Meenmutty, Thiruvananthapuram, 20.ii.1997, V.B. Hosagoudar TBGT 422, HClO 44009; TBGRI, Medicinal plant garden, Thiruvananthapuram, 12.xi.2001, M.M. Shajivaz TBGT 642, HClO 44315.

***Coleosporium plumeriae* Pat.**

On leaves of *Plumeria alba*, TBGRI campus, Thiruvananthapuram, 29.viii.2001, H. Biju TBGT 733, HClO 44316; 3.xii.2001, M.M. Shajivaz, TBGT 636, HClO 44317; TBGRI campus, Palode, Thiruvananthapuram, 23.ix.2002, V.B. Hosagoudar TBGT 916, HClO 44634; Manja, Nedumangad, Thiruvananthapuram, 29.vi.2003, V.B. Hosagoudar TBGT 1251, HClO 45214; Moozhiyar forest, KSEB rest house, Pathanamthitta, 13.xii.2004, V.B. Hosagoudar *et al.* TBGT 1712, HClO 45948; *Plumeria* sp., Palayam, Thiruvananthapuram, 5.xi.2004, V.B. Hosagoudar & H. Biju TBGT 1591, HClO 46179.

***Cronartium fici* Ramakr. T.S.**

On leaves of *Ficus asperima*, Nedumangad, Thiruvananthapuram, 16.xii.2001, V.B. Hosagoudar TBGT 596, HClO 44318.

***Crossospora ziziphi* (Sydow & Butler) Sydow**

On leaves of *Ziziphus* sp., Eanikara, Thiruvananthapuram, 20.xi.1999, V.B. Hosagoudar TBGT 732, HClO 44319.

***Curvularia lunata* (Wakker) Boediga**

On leaves of *Cocos nucifera*, Eanikara, Thiruvananthapuram, 20.viii.2000, V.B. Hosagoudar TBGT 490, HClO 44058.

***Dasturella divina* Mundk. & Keshwal**

On leaves of *Ochlandra* sp., Moozhiyar, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar *et al.* TBGT 1919, HClO 46273.

Diplococcium atrovelutinum* Braun *et al.

On leaves of *Scleria* sp., Eanikara, Thiruvananthapuram, 9.xii.2000, V.B. Hosagoudar TBGT 542, HClO 44155; 5.i.2001, V.B. Hosagoudar TBGT 491, HClO 44079; Sankali forest, Kollam, 5.i.2001, V.B. Hosagoudar TBGT 803, HClO 44517; forest area, Kusavoor, Palode, Thiruvananthapuram, 1.ix.2002, A. Manoj Kumar TBGT 873, HClO 44586; Sairandhri, Silent Valley, Palghat, 15.xii.2003, V.B. Hosagoudar *et al.* TBGT 1956, HClO 46310; Sankali, Kollam, 23.xi.2004, V.B. Hosagoudar TBGT 1955, HClO 46309; 23.xi.2004, V.B. Hosagoudar *et al.* TBGT 1976, HClO 46330; Moozhiyar, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar *et al.* TBGT 1954, HClO 46308.

***Domingoella asterinarum* Petrak**

On leaves of *Adhathoda vasica*, Haripad, Alapuzha, 22.xii.2000, M. Kamarudeen

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TBGT 523, HClO 44132; *Adhathoda* sp., Palode, Thiruvananthapuram, 2.xii.1998, K. Anilkumar TBGT 489, HClO 44058.

***Dysrhynchis uncinata* (Sydow) Arx**

On leaves of *Ochlandra travancorica*, Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 683, HClO 44320; on the way to Vazhachal, Trissur, 23.x.2002, A. Manoj Kumar & H. Biju TBGT 1333, HClO 45172; *Ochlandra* sp., Attayar, Thiruvananthapuram, 20.iii.1997, V.B. Hosagoudar TBGT 470, HClO 43966; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 1237, HClO 45201.

***Echidnodella polyalthiae* Hosag.**

On leaves of *Polyalthia longifolia*, in the campus of Botany Department, Kariyavattam, Thiruvananthapuram, 5.xi.2004, V.B. Hosagoudar & H. Biju TBGT 1974, HClO 46328; Chertala, Alapuzha, 18.vi.2005, V. Gireesh Kumar TBGT 2007, HClO 46361.

***Echidnodella vateriae* Hosag. & Kamar.**

On leaves of *Vateria* sp., TBGRI Campus, Palode, Thiruvananthapuram, 1.xii.2004, V.B. Hosagoudar HClO 46380, TBGT 2026.

***Echidnodes pandanicola* Hosag. & Hanlin**

On leaves of *Pandanus* sp., Thiruvananthapuram, 4.ii.1997, V.B. Hosagoudar TBGT 158, HClO 42529; Sasthanamada, Sankali, Kollam, 23.xi.2004, V.B. Hosagoudar TBGT 1733, HClO 45969.

***Eupelte amicta* H. Sydow**

On leaves of *Olea dioica*, Champatty, Silent Valley, Palghat, 14.xii.2003, V.B. Hosagoudar et al. TBGT 1937, HClO 46291; TBGT 1949, HClO 46303; Periyar Tiger Reserve, Idukki, 16.xii.2003, V.B. Hosagoudar et al. TBGT 1948, HClO 46302.

***Ferrarisia ipomoeae* (Sydow) Petrak**

On leaves of *Ipomoea* sp., Neyyar Dam site, Thiruvananthapuram, 17.ii.1997, V.B. Hosagoudar TBGT 159, HClO 42428; TBGRI campus, Thiruvananthapuram, 26.x.2000, C.K. Biju TBGT 492, HClO 44065; 5.xii.2001, H. Biju TBGT 1831, HClO 46068; H. Biju TBGT 1862, HClO 46099.

***Gyothyrix dichotoma* Pirozynski**

On leaves of *Hevea brasiliensis*, Eanikara, Thiruvananthapuram, 5.xii.2000, V.B. Hosagoudar TBGT 471, HClO 43984.

***Hameilea wrightiae* Racib.**

On leaves of *Wrightia tinctoria*, Peppara, Thiruvananthapuram, 4.ii.1997, V.B. Hosagoudar TBGT 160, HClO 42527; Peppara Wildlife Sanctuary, Thiruvananthapuram, 4.ii.1997, V.B. Hosagoudar TBGT 424, HClO 43999; *Wrightia* sp., Bonacaud forest, Thiruvananthapuram, 11.iii.1997, V.B. Hosagoudar TBGT 530, HClO 44159.

***Hansfordiella capulifera* (Hansf.) Hughes**

On the colonies of *Asterina* sp. on the leaves of *Syzygium* sp., Mannavan shola, Munnar, Idukki, 16.ix.1999, C.K. Biju TBGT 377, HClO 43815; 11.v.1999, C.K. Biju TBGT 372, HClO 43810.

***Hansfordiellopsis lichenicola* (Batista & Maia) Deight.**

On leaves of *Nephelium* sp., Kakki dam, Moozhiyar forest, Pathanamthitta, 15.xii.2004, V.B. Hosagoudar TBGT 1965, HClO 46319.

***Helicomina* sp.**

On leaves of *Ochlandra travancorica*, on the way to Vazhachal, Trissur, 23.x.2002, A. Manoj Kumar & H. Biju TBGT 1333, HClO 45172.

***Hameilea vastatrix* Berk. & Br.**

On leaves of *Coffea* sp., Kombe, Meenmutty, Thiruvananthapuram, 20.i.1997, V.B. Hosagoudar TBGT 472, HClO 43981.

***Hameilea wrightiae* Racib.**

On leaves of *Wrightia tinctoria*, Peppara Wildlife Sanctuary, Thiruvananthapuram, 4.ii.1997, V.B. Hosagoudar TBGT 160, HClO 42527.

***Heteroconium solaninum* (Sacc. & Sydow) Ellis**

On leaves of *Thea sinensis*, Mattupetty, Munnar, Idukki, 1.i.2003, H. Biju & A. Manoj Kumar TBGT 1061, HClO 44824; Gravel banks, Rajamala, Munnar, Idukki, 20.i.2003, H. Biju & A. Manoj Kumar TBGT 1063, HClO 44826; Anaimudy tea estate, Munnar, Idukki, 22.i.2003, H. Biju & A. Manoj Kumar TBGT 1067, HClO 44830.

***Irenopsis benguetensis* Stev. & Rold. ex Hansf.**

On leaves of *Ficus tinctoria* ssp. *parasitica*, Bonacaud Estate,

Thiruvananthapuram, 13.iii.1997, V.B. Hosagoudar TBGT 187; *F. exasperata*, Arboretum, TBGRI campus, Palode, Thiruvananthapuram, 25.xi.2000, T. Sabu TBGT 1217, HClO 45162; Periya, Wyanad, 27.xii.2002, M. Kamarudeen & P.A. Jose, TBGT 1027, HClO 44790; *F. asperima*, TBGRI arboretum, Palode, Thiruvananthapuram, 10.i.2001, H. Biju TBGT 858, HClO 44571; 12.xii.2001, H. Biju TBGT 761, HClO 44471; 27.xi.2001, H. Biju & A. Manoj Kumar TBGT 984, HClO 44703; *Ficus* sp., Moozhiyar forest, KSEB rest house, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar et al. TBGT 1728, HClO 45964; TBGT 1730, HClO 45966; on the way to Vandiperiyar, Idukki, 16.xii.2004, V.B. Hosagoudar et al. TBGT 1612, HClO 46200; TBGRI Campus, Thiruvananthapuram, 28.ii.2001, V.B. Hosagoudar TBGT 1141, HClO 45086; Vandiperiyar, Idukki, 16.xii.2004, V.B. Hosagoudar TBGT 1582, HClO 46170.

***Irenopsis coimbatorica* Hosag.**

On leaves of *Grewia tiliaefolia*, Kombe, Meenmutty; Thiruvananthapuram, 9.iii.1996, V.B. Hosagoudar TBGT 473, HClO 43977.

***Irenopsis crotonis* (Stev. & Tehon) Stev.**

On leaves of *Mallotus repandus*, Kombe, Thiruvananthapuram, 20.ii.1997, V.B. Hosagoudar TBGT 161, HClO 42526.

***Irenopsis goniiothalami* Hosag. & Abraham**

On leaves of *Goniiothalamus rhyncantherus*, Ponmudy, Thiruvananthapuram, 2.i.2001, G. Rajkumar TBGT 1194, HClO 45139; 7.iii.2003, G. Rajkumar TBGT 1178, HClO 45123; Chemunji, Thiruvananthapuram, 6.ii.2003, G. Rajkumar TBGT 1179, HClO 45124.

***Irenopsis gordoniae* Hosag. et al.**

On leaves of *Gordonia* sp., Gravel Banks, Munnar, Idukki, 18.xii.2001, S. Shiburaj TBGT 590, HClO 44272.

***Irenopsis helicteridis* Hosag.**

On leaves of *Helicteres isora*, Peppara Wildlife Sanctuary, Thiruvananthapuram, 3.ii.1997, V.B. Hosagoudar TBGT 133, HClO 42502; Kombe, Thiruvananthapuram, 18.ii.1997, V.B. Hosagoudar TBGT 425, HClO 44027; 19.ii.1997, V.B. Hosagoudar TBGT 188; TBGRI campus, Thiruvananthapuram, 23.i.2001, H. Biju TBGT 805, HClO 44519; Sankali forest, Kollam, 23.xi.2004, V.B. Hosagoudar et al. TBGT 1680, HClO 45918; TBGT 1682, HClO 45920; TBGT 1812, HClO 46049.

***Irenopsis molleriana* (Wint.) Stev.**

On leaves of *Hibiscus furcatus*, Sankali forest, Kollam, 23.xi.2004, V.B. Hosagoudar et al. TBGT 1857, HClO 46094; Kakki dam, Moozhiyar forest, Pathanamthitta, 15.xii.2004, V.B. Hosagoudar et al. TBGT 1734, HClO 45970; *H. molleriana*, Placherry forest, Ranni, Pathanamthitta, 4.x.2002, A. Manoj Kumar TBGT 901, HClO 44619; *H. hispidissimus*, Kombe, Thiruvananthapuram, 20.ii.1997, V.B. Hosagoudar TBGT 162, HClO 42525.

***Irenopsis murrayae* Hosag. & Rajkumar**

On leaves of *Murraya koenigii*, TBGRI campus, Thiruvananthapuram, 17.i.2001, H. Biju TBGT 798, HClO 44512; 17.iv.2001, S. Shiburaj TBGT 743, HClO 44454; Karimancode, Palode, Thiruvananthapuram, 21.i.2005, Archana et al. TBGT 1634, HClO 46222; 3.vi.2005, Archana et al. TBGT 2014, HClO 46368; 2.iii.2005, Archana et al. TBGT 1770, HClO 46006.

***Irenopsis sidae* (Rehm) Hughes**

On leaves of *Sida* sp., Kakki dam, Moozhiyar forest, Pathanamthitta, 15.xii.2004, V.B. Hosagoudar TBGT 1962, HClO 46316.

***Irenopsis sidae* (Rehm) Hughes var. *abutili* Hosag. et al.**

On leaves of *Abutilon* sp., Anathodu dam site, Moozhiyar forest, Pathanamthitta, 15.xii.2004, V.B. Hosagoudar et al. TBGT 1986, HClO 46340.

***Irenopsis sidae* (Rehm) Hughes var. *indica* Hosag. & Manoj.**

On leaves of *Sida cordata*, Karikulam, Ranni, Pathanamthitta, 4.x.2002, A. Manoj Kumar TBGT 907, HClO 44625.

***Irenopsis thespesiae* Hansf.**

On leaves of *Thespesia lampas*, TBGRI campus, Thiruvananthapuram, 12.x.2000, M. Kamarudeen TBGT 378, HClO 43832; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 709, HClO 44322; 23.xi.2004, V.B. Hosagoudar TBGT 1585, HClO 46173; TBGT 1587, HClO 46175; TBGT 1813, HClO 46050.

***Irenopsis triumfettae* (Stev.) Hansf. & Deight.**

On leaves of *Triumfetta rhomboidea*, Banasuran mala, Wyanad, 19.xi.1998, C.K. Biju TBGT 348, HClO 43691; Tenmala, Kollam, 14.i.2003, V.B. Hosagoudar et al. TBGT 1116, HClO 44888.

***Irenopsis triumfettae* (Stev.) Hansf. & Deight. var. *indica* Hosag. & Abraham**
On leaves of *Triumfetta rhomboidea*, Wagamon, Kottayam, 5.xii.2002, A. Manoj Kumar TBGT 991, HClO 44710; *Triumfetta* sp., Sairandhri, Silent Valley, Palghat, 13.xii.2003, V.B. Hosagoudar *et al.* TBGT 1643, HClO 46231; Moozhiyar forest, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar *et al.* TBGT 1647, HClO 46235; Sankali forest, Kollam, 23.xi.2004, V.B. Hosagoudar TBGT 1785, HClO 46021; TBGT 1792, HClO 46028.

Ishwaramyces flacourtiiae* Hosag. *et al.

On leaves of *Flacourtia montana*, Vithura, Thiruvananthapuram, 22.x.2000, K.P. Babu TBGT 474, HClO 43987; TBGRI campus, Thiruvananthapuram, 23.x.2000, M.M. Shajivaz TBGT 493, HClO 44060; 18.xii.2000, H. Biju TBGT 1866, HClO 46103; 12.xii.2001, H. Biju 46120; Kulamavu, Idukki, 5.ix.2001, M. Kamarudeen TBGT 573, HClO 44186.

***Isthmospora* sp.**

On melioliaceous fungal colonies on the leaves of *Jasminum* sp., Eanikara, Thiruvananthapuram, 20.i.2001, V.B. Hosagoudar TBGT 837, HClO 44551; *Wendlandia thyrsoides*, Wagamon, Kottayam, 5.xii.2002, A. Manoj Kumar TBGT 1005, HClO 44724; 15.xii.2004, V.B. Hosagoudar *et al.* TBGT 1841, HClO 46078; 18.iii.1997, V.B. Hosagoudar TBGT 435, HClO 43952; *Turpinia malabarica*, Sairandhri, Silent Valley, Palghat, 13.xii.2003, V.B. Hosagoudar *et al.* TBGT 1384, HClO 45639.

***Kernkempella breyniae* (Sydow & Sydow) Rajendran**

On leaves of *Breynia rhamnoides*, Bonacaud forest, Thiruvananthapuram, 13.iii.1997, V.B. Hosagoudar TBGT 494, HClO 44072; Attayar, Thiruvananthapuram, 19.iii.1997, V.B. Hosagoudar TBGT 495, HClO 44059; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 618, HClO 44323; *Breynia* sp., Kombe, Thiruvananthapuram, 19.ii.1997, V.B. Hosagoudar TBGT 576, HClO 44197; Bonacaud forest, Thiruvananthapuram, 13.iii.1997, V.B. Hosagoudar TBGT 577, HClO 44185.

***Kernkempella* sp.**

On leaves of *Acacia* sp., Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 787, HClO 44497.

***Lembosia humboldtiae* Hosag. & Abraham**

On leaves of *Humboldtia* sp., Kulamavu, Idukki, 5.ix.2001, M. Kamarudeen TBGT 1164, HClO 45109; TBGRI campus, Thiruvananthapuram, 25.xi.2000, T. Sabu TBGT 379, HClO 43829.

***Lembosia malabarensis* (Sydow) Hosag. & Goos**

On leaves of *Pothos scandens*, Kombe, Meenmutty, Thiruvananthapuram, 9.iii.1996, V.B. Hosagoudar TBGT 28, HClO 42166; TBGRI Campus, Palode, Thiruvananthapuram, 4.xii.1996, V.B. Hosagoudar TBGT 82, HClO 42418; Attayar, 19.iii.1997, V.B. Hosagoudar TBGT 426, HClO 43992; Near Sasthanamada tribal colony, Sankali forest, Kollam, 23.xi.2004, V.B. Hosagoudar TBGT 1575, HClO 46163; TBGT 1580, HClO 46168; 2.

***Lembosia ormosiae* Yamam.**

On leaves of *Ormosia travancorica*, TBGRI campus, Palode, Thiruvananthapuram, 24.iv.2002, T. Sabu TBGT 925, HClO 44643; 5.ix.2002, A. Manoj Kumar & H. Biju TBGT 884, HClO 44597.

***Lembosia perseae* Orejuela**

On leaves of *Persea macrantha*, Rajamala, Munnar, 20.i.2003, A. Manoj Kumar & H. Biju TBGT 1252, HClO 45215.

***Lembosia syzygiicola* Hosag.**

On leaves of *Syzygium cumini*, TBGRI, Thiruvananthapuram, 16.vi.1997, V.B. Hosagoudar TBGT 163, HClO 42524; *Syzygium* sp., Chemunji, Thiruvananthapuram, 11.iii.1998, V.B. Hosagoudar TBGT 219, HClO 42934.

Lembosia terminaliae-chebulae* Hosag. *et al.

On leaves of *Terminalia chebula*, TBGRI campus, Thiruvananthapuram, 22.xi.2000, C.K. Biju TBGT 496, HClO 44062; near Karamanayar, Thiruvananthapuram, 4.xii.2001, G. Rajkumar TBGT 1148, HClO 45093; TBGRI campus, Palode, Thiruvananthapuram, 12.x.2000, V.B. Hosagoudar TBGT 626, HClO 44326; 1.i.2001, H. Biju TBGT 1871, HClO 46108; 17.i.2001, H. Biju TBGT 1867, HClO 46104.

***Leptosphaerulina australis* McAlpine**

On leaves of *Crotalaria* sp., Champatty, Silent valley, Palghat, 14.xii.2003, V.B. Hosagoudar *et al.* TBGT 1885, HClO 46122; Moozhiyar forest, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar *et al.* TBGT 1886, HClO 46123; Sairandhri, Palghat, 15.xii.2003, V.B. Hosagoudar *et al.* TBGT 1778, HClO 46014.

***Leptosphaerulina trifoli* (Rost.) Retr.**

On leaves of *Crotalaria* sp., Chippanchira, Thiruvananthapuram, 2.ii.1999, C.K. Biju TBGT 497, HClO 44056.

***Leptoxyphium* sp.**

On leaves of *Rosa sinensis*, Eanikara, Thiruvananthapuram, 8.iii.2000, V.B. Hosagoudar TBGT 686, HClO 44327.

***Malthomyces calamigena* (Berk. & Broome) Hyde & Cannon**

On leaves of *Calamus* sp., Attayar, Thiruvananthapuram, 18.iii.1997, V.B. Hosagoudar TBGT 453, HClO 43994.

***Meliola acanthacearum* Hansf. var. *occidentalis* Hansf.**

On leaves of *Strobilanthes* sp., Nalpathanchushola, Munnar, Idukki, 22.i.2003, A. Manoj Kumar & H. Biju TBGT 1303, HClO 45265.

***Meliola adenanthericola* Hosag. & Kamarudeen**

On leaves of *Adenanthera pavonina*, Vithura, Thiruvananthapuram, 22.xi.2000, M. Kamarudeen TBGT 518, HClO 44123.

***Meliola aethiops* Sacc.**

On leaves of *Cassia fistula*, Eanikara, Thiruvananthapuram, 5.i.2001, Mrs. Sharada TBGT 385, HClO 43825, 43742; Karikulam, Ranni, Pathanamthitta, 4.x.2002, A. Manoj Kumar TBGT 899, HClO 44617.

***Meliola aethiops* Sacc. var. *keralica* Hosag.**

On leaves of *Cassia* sp., Kombe, Thiruvananthapuram, 25.ii.1997, V.B. Hosagoudar TBGT 561, HClO 44183.

***Meliola affinis* Sydow var. *indica* Hosag.**

On leaves of *Memecylon malabarica*, Attayar, Thiruvananthapuram, 18.iii.1997, V.B. Hosagoudar TBGT 663, HClO 44328.

***Meliola africana* Hansf.**

On leaves of *Canthium angustifolium*, Chemunji Hills, Thiruvananthapuram, 11.iii.1997, V.B. Hosagoudar TBGT 656, HClO 44329.

***Meliola ailanthi* Sharma *et al.* emend. Hosag.**

On leaves of *Ailanthus excelsa*, Palode, Thiruvananthapuram, 2.vi.2003, A. Manoj Kumar TBGT 1153, HClO 45098; TBGRI arboretum, Palode, Thiruvananthapuram, 10.i.2001, H. Biju TBGT 865, HClO 44578; *A. triphysa*, Nedumangad, Thiruvananthapuram, 24.vi.2003, Mahanteshagowda TBGT 1154, HClO 45099; Vazhayila, Thiruvananthapuram, 20.xii.2000, G. Rajkumar TBGT 386, HClO 43817; *Ailanthus* sp., Eanikara, Thiruvananthapuram, 20.i.2001, V.B. Hosagoudar TBGT 427, HClO 43998.

***Meliola allophyli* - *concanici* Hosag.**

On leaves of *Allophylus concanicus*, TBGRI campus, Thiruvananthapuram, 13.xii.2000, M. Kamarudeen TBGT 498, HClO 44075; Champatty, Silent Valley, Palghat, 14.xii.2003, V.B. Hosagoudar *et al.* TBGT 1517, HClO 45768; Gavi, Pathanamthitta, 16.xii.2004, V.B. Hosagoudar *et al.* TBGT 1829, HClO 46066; Sasthanamada, Sankali forest, Kollam, 23.xi.2004, V.B. Hosagoudar *et al.* TBGT 1897, HClO 46134; *A. serrulatus*, Banasuran mala, Wyanad, 11.xi.1998, C.K. Biju TBGT 297, HClO 43615; *Allophylus* sp., Sankali forest, Kollam, 23.xi.2004, V.B. Hosagoudar TBGT 1799, HClO 46036.

***Meliola allophyli* Hosag.**

On leaves of *Allophylus serratus*, TBGRI campus, Palode, Thiruvananthapuram, 18.xii.2001, H. Biju TBGT 855, HClO 44568; 23.i.2001, H. Biju TBGT 851, HClO 44564; 11.xi.2000, H. Biju TBGT 845, HClO 44558.

***Meliola allophyli-serrulati* Hosag. & Abraham**

On leaves of *Allophylus cobbe*, Periya, Wyanad, 21.iv.2003, M. Kamarudeen & P.A. Jose TBGT 1126, HClO 45071.

***Meliola alstoniae* Koord.**

On leaves of *Alstonia scholaris*, Peppara Wildlife Sanctuary, Thiruvananthapuram, 5.ii.1997, V.B. Hosagoudar TBGT 136, HClO 42487; TBGRI campus, Thiruvananthapuram, 27.vii.2001, M. Kamarudeen TBGT 554, HClO 44142.

***Meliola altissimae* Hosag.**

On leaves of *Vitex altissima*, Meenmutty, 8.iii.1996, V.B. Hosagoudar TBGT 11, HClO 42150; Peppara Wildlife Sanctuary, Thiruvananthapuram, 4.ii.1997, V.B. Hosagoudar TBGT 164; TBGRI campus, Thiruvananthapuram, 4.xi.2000, H. Biju TBGT 735, HClO 44446; TBGRI arboretum, Palode, Thiruvananthapuram, 10.i.2001, H. Biju TBGT 861, HClO 44574; 18.xii.2001, H. Biju TBGT 791, HClO 44505; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 695, HClO 44331; forest area, Kusavoor, Palode, Thiruvananthapuram, 22.ix.2002, A.

Manoj Kumar TBGT 913, HClO 44631; Vandanam Sacred grove, Alapuzha, 3.x.2002, A. Manoj Kumar TBGT 903, HClO 44621; forest area, Kusavoor, Palode, Thiruvananthapuram, 2.iii.2005, G.R. Archana & V.L. Sheeja TBGT 1685, HClO 45923; Sankali forest, Kollam; 23.xi.2004, V.B. Hosagoudar TBGT 1618, HClO 46206.

***Meliola anacardii* Zim.**

On leaves of *Anacardium occidentale*, TBGRI campus, Palode, Thiruvananthapuram, 11.iii.1996, V.B. Hosagoudar TBGT 12, HClO 42151; Kombe, Thiruvananthapuram, 20.ii.1997, V.B. Hosagoudar TBGT 190; TBGT 475, HClO 43949; Cherthala, Alapuzha, 22.x.1998, C.K. Biju TBGT 244, HClO 42954; Eanikara, Thiruvananthapuram, 11.xi.2000, Mrs. Sharada TBGT 387, HClO 43819; TBGRI campus, Palode, Thiruvananthapuram, 2.xi.2000, H. Biju TBGT 741, HClO 44452; Kilimanoor, Thiruvananthapuram, 27.x.2002, M. Kamarudeen TBGT 960, HClO 44679; TBGRI campus, Palode, Thiruvananthapuram, 18.xii.2001, H. Biju TBGT 792, HClO 44506; along the high way, Cherthala, Alapuzha, 30.x.2002, S. Shiburaj TBGT 879, HClO 44592.

***Meliola anceps* Sydow**

On leaves of *Mussaenda arcuata*, TBGRI campus, Thiruvananthapuram, 5.xii.2001, H. Biju TBGT 776, HClO 44486; *M. belliella*, TBGRI campus, Thiruvananthapuram, 12.xii.2001, H. Biju TBGT 762, HClO 44472; Wagamon, Kottayam, 5.xii.2002, A. Manoj Kumar TBGT 999, HClO 44718; Moozhiyar forest, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar *et al.* TBGT 1809, HClO 46046; Anathode dam site, Moozhiyar forest, Pathanamthitta, 15.xii.2004, V.B. Hosagoudar *et al.* TBGT 1661, HClO 46249; *M. philippica*, TBGRI, garden, 12.xii.1996, V.B. Hosagoudar TBGT 84, HClO 42419; TBGRI campus, Palode, Thiruvananthapuram, 11.xi.2000, H. Biju TBGT 796, HClO 44510; Eanikara, Thiruvananthapuram, 5.i.2001, V.B. Hosagoudar TBGT 499, HClO 44053; Kusavoor, Palode, Thiruvananthapuram, 1.ix.2002, A. Manoj Kumar TBGT 883, HClO 44596; *M. frondosa*, Haripad, Alapuzha, 20.xii.2000, M. Kamarudeen TBGT 388, HClO 43796; *Mussaenda* sp., TBGRI campus, Palode, Thiruvananthapuram, 1.i.2001, H. Biju TBGT 847, HClO 44560; Peringamala, Thiruvananthapuram, 20.ii.2001, M. Kamarudeen TBGT 578, HClO 44204; TBGRI Junction, Palode, Thiruvananthapuram, 19.xi.2002, G. Rajkumar TBGT 1200, HClO 45145; Palode, Thiruvananthapuram, 3.i.2002, S. Shiburaj TBGT 633, H. Biju HClO 44332.

***Meliola angiopteridis* Hansf. var. *indica* Hosag.**

On leaves of *Angiopteris evecta*, Athirumala, Thiruvananthapuram, 26.iii.1996, V.B. Hosagoudar TBGT 85, HClO 42295; TBGT 428, HClO 44003; Chemunji Hills, Thiruvananthapuram, 11.iii.1997, V.B. Hosagoudar TBGT 476, HClO 43973.

***Meliola ardigoosii* Hosag. & Abraham**

On leaves of *Buchanania lanceolata*, TBGRI campus, Thiruvananthapuram, 4.xii.2001, T. Sabu TBGT 638, HClO 44333; 20.i.2005, V.B. Hosagoudar TBGT 1593, HClO 46181; 25.i.2005, G.R. Archana & V.L. Sheeja TBGT 1689, HClO 45927; 2.iii.2005, G.R. Archana & V.L. Sheeja TBGT 1693, HClO 45931; *B. lanzan*, Peppara Wildlife Sanctuary, Thiruvananthapuram, 6.ii.1997, V.B. Hosagoudar TBGT 149, HClO 42523; TBGRI campus, Palode, Thiruvananthapuram, 4.xi.2000, H. Biju TBGT 817, HClO 44531; 1.xii.2001, H. Biju TBGT 818, HClO 44532; in the forest near Kusavoor, Palode, Thiruvananthapuram, 21.xii.2002, A. Manoj Kumar TBGT 1020, HClO 44739; Karimancode, Palode, Thiruvananthapuram, 21.i.2005, Archana *et al.* TBGT 1639, HClO 46227.

Meliola aristolochigena* Hosag. *et al.

On leaves of *Aristolochia tagala*, Moozhiyar forest, Pathanamthitta, 14.xii.2004, V.B. Hosagoudar *et al.* TBGT 1796, HClO 46033; Sairandhri, Silent valley, Palghat, 15.xii.2003, V.B. Hosagoudar *et al.* TBGT 2022, HClO 46376; 15.xii.2003, V.B. Hosagoudar *et al.* TBGT 2024, HClO 46378.

***Meliola artocarpi* Yates**

On leaves of *Artocarpus heterophyllus*, Chemunji, Thiruvananthapuram, 26.ii.2001, G. Rajkumar TBGT 1149, HClO 45094; Karadimala, Neyyar Wildlife Sanctuary, 28.iii.2003, V.B. Hosagoudar TBGT 53, HClO 42181; *A. hirsutus*, Bonacaud, Thiruvananthapuram, 4.i.2002, G. Rajkumar TBGT 1336, HClO 45175; *A. lakoocha*, Chemunji, Thiruvananthapuram, 11.iii.1997, V.B. Hosagoudar TBGT 199; *Artocarpus* sp., Chemunji, Thiruvananthapuram, 3.i.2001, G. Rajkumar TBGT 1089, HClO 44861; 3.i.2001, G. Rajkumar TBGT 1091, HClO 44863.

Meliola artocarpi* Yates var. *indica* Hosag. *et al.

On leaves of *Artocarpus hirsutus*, Eanikara, Thiruvananthapuram, 28.i.2001, P.V. Mahanteshagowda TBGT 395, HClO 43821.

***Meliola atylosiae* Hosag.**

On leaves of *Atylosia lineata*, Moozhiyar forest, Pathanamthitta, 14.xii.2004,

V.B. Hosagoudar *et al.* TBGT 1714, HClO 45950.

***Meliola bataanensis* Sydow**

On leaves of *Milletia rubiginosa*, TBGRI Campus, Palode, Thiruvananthapuram, 9.iii.1996, V.B. Hosagoudar TBGT 1294, HClO 45256.

***Meliola bataanensis* Sydow var. *indica* Hosag. & Abraham**

On leaves of *Milletia rubiginosa*, Attayar, Thiruvananthapuram, 18.iii.1997, V.B. Hosagoudar TBGT 689, HClO 44334; Ponnudiy top, Thiruvananthapuram, 1.i.2005, V.B. Hosagoudar *et al.* TBGT 1942, HClO 46079; Kallar, Thiruvananthapuram, 1.i.2005, V.B. Hosagoudar *et al.* TBGT 1843, HClO 46080; on the way to Ponnudiy top, Thiruvananthapuram, 1.i.2005, V.B. Hosagoudar *et al.* TBGT 1844, HClO 46081; *Milletia* sp., Kulamavu, Idukki, 18.v.2001, M. Kamarudeen, TBGT 537, HClO 44147.

***Meliola bauhiniicola* Yamam.**

On leaves of *Bauhinia* sp., TBGRI campus, Thiruvananthapuram, 3.ii.2001, M. Kamarudeen TBGT 429, HClO 43957; *Bauhinia* sp., TBGRI garden, 15.xii.1997, V.B. Hosagoudar TBGT 137, HClO 42488; TBGRI arboretum, Palode, Thiruvananthapuram, 10.i.2001, H. Biju TBGT 868, HClO 44581.

***Meliola beilschmediae* Yamam. var. *cinnamomicola* Hosag.**

On leaves of *Cinnamomum malabatum*, Kombe, Thiruvananthapuram, 19.ii.1997, V.B. Hosagoudar TBGT 166, HClO 42521; TBGRI campus, Palode, Thiruvananthapuram, 28.vii.1998, S. Shiburaj TBGT 220, HClO 42924; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 723, HClO 44336; *C. macrocarpum*, Periya, Wyand, 10.i.2002, M. Kamarudeen TBGT 718, HClO 44335.

***Meliola bicornis* Wint.**

On leaves of *Desmodium cephalotes*, Kulathupuzha, Kollam, 4.xii.2001, Justin P. Jacob TBGT 601, HClO 44344; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 595, HClO 44338; *D. latifolium*, Sankali forest, Kollam, 15.x.1998, C.K. Pradeep TBGT 245, HClO 42971; 23.xi.2004, V.B. Hosagoudar TBGT 1617, HClO 46205; TBGT 1774, HClO 46010; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 624, HClO 44339; *D. polycarpum*, Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 654, HClO 44340; Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 602, HClO 44341; *D. pulchellum*, Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 625, HClO 44337; *D. triangular* var. *congesta*, Peppara Wildlife Sanctuary, Thiruvananthapuram, 4.ii.1997, V.B. Hosagoudar TBGT 167, HClO 42520; *D. triquetrum*, Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 621, HClO 44342; *D. velutinum*, Kulathupuzha, Kollam, 4.xii.2001, Justin P. Jacob TBGT 591, HClO 44345; *Desmodium* sp., forest area, Kusavoor, Palode, Thiruvananthapuram, 1.ix.2002, A. Manoj Kumar TBGT 877, HClO 44590; *Flemingia congesta*, forest area, Kusavoor, Palode, Thiruvananthapuram, 1.ix.2002, A. Manoj Kumar TBGT 886, HClO 44599; *Flemingia* sp., Banasuran mala, Wyand, 19.xi.1998, C.K. Biju TBGT 298, HClO 43616; *Pycnospora lutescens*, TBGRI campus, Thiruvananthapuram, 23.i.2001, H. Biju TBGT 748, HClO 44459; *Uraria rufescens*, Sankali forest, Kollam, 27.xii.2001, V.B. Hosagoudar TBGT 644, HClO 44343.

Meliola buteae* Hafiz *et al.

On leaves of *Butea monosperma*, TBGRI arboretum, Palode, Thiruvananthapuram, 5.ix.2002, Manoj Kumar & H. Biju TBGT 878, HClO 44591; *B. parviflora*, Kombe, Thiruvananthapuram, 19.ii.1997, V.B. Hosagoudar TBGT 168, HClO 42518; Ayirakallu, Meenmutty, Thiruvananthapuram, 9.iii.1997, V.B. Hosagoudar TBGT 1150, HClO 45095; TBGRI campus, Thiruvananthapuram, 2.xi.2000, H. Biju TBGT 747, HClO 44458; 5.ix.2002, A. Manoj Kumar & H. Biju TBGT 885, HClO 44598.

***Meliola butleri* Sydow & Sydow**

On leaves of *Citrus maxima*, TBGRI campus, Thiruvananthapuram, 9.iii.1999, S. Shiburaj TBGT 500, HClO 44066; Narikal, Poovathoor, Nedumangad, Thiruvananthapuram, 27.xi.2002, M. Navas TBGT 983, HClO 44702; *Citrus* sp., Sairandhri, Silent Valley, Palghat, 12.xii.2003, V.B. Hosagoudar *et al.* TBGT 1928, HClO 46282.

***Meliola cadigensis* Yates var. *glycosmidis* (Kapoor) Hosag.**

On leaves of *Glycosmis pentaphylla*, Tirunelly, Wyand, 11.viii.1998, C.K. Biju TBGT 246, HClO 42970; Eanikara, Thiruvananthapuram, 10.xi.2000, P.Y. Basanagowda TBGT 430, HClO 43969; Tirunelly, Wyand, 23.ix.2002, K. Vijayakumar TBGT 910, HClO 44628; Kayamkulam, 31.vii.2001, G. Rajkumar TBGT 639, HClO 44346; Karikulam, Ranni, Pathanamthitta, 4.x.2002, A. Manoj Kumar TBGT 931, HClO 44649; *Glycosmis* sp., Periya, Wyand, 7.iii.2001, G. Rajkumar & P.A. Jose TBGT 1289, HClO 45251.

Meliola cadigensis Yates var. *toddaliae* Hosag. et al.

On leaves of *Toddalia asiatica*, Banasuran mala, Wyanad, 19.xi.1998, C.K. Biju TBGT 299, HClO 43617.

Meliola caesalpiniae Hansf. & Deight. var. *indica* Hosag. & H. Biju

On leaves of *Caesalpinia sappan*, TBGRI campus, Palode, Thiruvananthapuram, 11.xi.2000, H. Biju TBGT 355, HClO 43686; 20.x.2000, T. Sabu TBGT 431, HClO 43996.

Meliola canthii-angustifolii Hosag.

On leaves of *Canthium* sp., Athirumala, Thiruvananthapuram, 26.iii.1996, V.B. Hosagoudar TBGT 87.

Meliola capensis (Kalch. & Cooke) Theiss. var. *allophylicola* Hansf. & Deight.

On leaves of *Allophylus cobbe*, Kombe, Meenmutty, Thiruvananthapuram, 9.iii.1996, V.B. Hosagoudar TBGT 14, HClO 42152; Idukki, 9.i.2001, Kamarudeen TBGT 390, HClO 43826; *Allophylus* sp., Wyanad Periya, Wyanad, 27.xii.2002, M. Kamarudeen & P.A. Jose TBGT 2031.

Meliola capensis (Kalch. & Cooke) Theiss. var. *dimocarpi* Hosag. & Abraham

On leaves of *Dimocarpus longan*, Deer rehabilitation centre, Tenmala, Kollam, 14.x.2002, A. Manoj Kumar TBGT 971, HClO 44690; *Dimocarpus* sp., on the way to Vazhachal, Trissur, 23.x.2002, H. Biju & Manoj Kumar TBGT 980, HClO 44699.

Meliola capensis (Kalch. & Cooke) Theiss. var. *indica* Hansf.

On leaves of Sapindaceae member, Ramagirikotta, Palghat, 16.vii.2002, A. Manoj Kumar & H. Biju TBGT 812, HClO 44526.

Meliola capensis (Kalch & Cooke) Theiss. var. *malayensis* Hansf.

On leaves of *Nephelium longan*, Kombe, Meenmutty, Thiruvananthapuram, 19.ii.1997, V.B. Hosagoudar TBGT 585, HClO 44191; 28.iii.1996, V.B. Hosagoudar TBGT 54; TBGRI campus, Palode, Thiruvananthapuram, 25.xi.2000, T. Sabu TBGT 1236, HClO 45200; Sasthanamada, Sankali, Kollam, 23.xi.2004, V.B. Hosagoudar et al. TBGT 1924, HClO 46278; 23.xi.2004, V.B. Hosagoudar et al. TBGT 1891, HClO 46128; 23.xi.2004, V.B. Hosagoudar et al. TBGT 1668, HClO 46256; *Nephelium* sp., Wyanad, 21.v.2002, M. Kamarudeen TBGT 785, HClO 44495.

REFERENCE

Hosagoudar, V.B. (2006). Additions to the fungi of Kerala. *Zoos' Print Journal* 21(7): 2322-2330.

Hosagoudar, V.B., T.K. Abraham and P. Pushpangadan (1996). *Fungi of Kerala*. Tropical Botanic Garden and Research Institute, Palode, Thiruvananthapuram, 151pp.

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STUDY OF ANAESTHETIC EFFICACY OF DETOMIDINE-KETAMINE COCKTAIL IN BUDGERIGARS

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Now-a-days alpha-2-adrenoceptor agonists are in common use as sedatives and anaesthetics for avian species because these are considered very effective, safe and easy to administer parenterally for surgical and non surgical procedures. Lees (1991) described that detomidine is a potent, non-narcotic, sedative, muscle relaxant and analgesic. High doses of detomidine produce deep sedation, leading to loss of consciousness and a light plane of anaesthesia. Freed and Baker (1989) reported that xylazine, detomidine and medetomidine are usually used in combination with ketamine. Valvered et al. (1993) stated that in most birds, intramuscular injections are best given in the pectoral muscles. In flightless birds, such as ratites, pectoral muscle mass is minimal, thus the thigh muscles are preferred. Heaton and Brauth (1992) stated that detomidine-ketamine combinations results in reduction of the required doses, smooth induction and recovery and better muscle relaxation. Muhammad et al. (1993) studied the anaesthetic effect of detomidine-ketamine in chicken. They reported that the use of detomidine-ketamine cocktail readily and smoothly induces loss of righting reflex, good muscle relaxation, hypoventilation while corneal reflex persists during anaesthesia. Booth and McDonald (1988) reported that among the dissociative agents, ketamine is the least potent anaesthetic and acts for the shortest period. It is a potent inhibitor of GABA binding in C.N.S. It induces amnesia and anaesthesia of stages I and II but not stage III anaesthesia. Valvered et al. (1993) concluded that ketamine is rarely used alone because it is associated with poor muscle relaxation, muscle tremors, myotonic contractions, opisthotonus and rough recoveries. The drug may be administered alone but is more commonly used together with either alpha-2-adrenergic drugs, diazepam or azaperone, depending on the species involved. In Pakistan different studies have been conducted on detomidine-ketamine cocktail efficacy in equine, canine, poultry and some exotic birds. This project was designed to study the anaesthetic and analgesic effect of detomidine-ketamine cocktail in budgerigars.

Experimental birds: Ten adult and healthy budgerigars (*Melopsittacus undulatus*), comprising of three males and seven females, were purchased from a local market (Lahore, Pakistan). All birds were kept in experimental room of Department of Pharmacology and Toxicology, University of Veterinary and Animal Sciences, Lahore, Pakistan. In the experimental room the birds were provided naturalistic environment and the temperature was maintained at 25°C. Birds had *ad libitum* access to food and water.