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Nomenclatural novelties: Hira Bashir

Agaricus badiosquamulosus H. Bashir & Khalid, sp. nov.

IF 903270

Holotype: LAH 35751

Etymology: The specific epithet 'badio' means in Latin brown and 'squamulosus' means scales, 'badiosquamulosus' referred to the brown colored squamules on the pileus.

Diagnosis: Bashir, Asif, Ghafoor, Niazi, Khalid, Parveen, Harun, Afshan, Bibi & Callac, PLoS ONE 19 (7/e0302222): 6-21 (2024).

Specimens examined: Pakistan, Punjab, Lahore, solitary on rich loamy soil along Pak. Motorway (M3) near Eucalyptus camadulensis, 217 m a.s.l., 01 September 2016, Hira Bashir, M28 (holotype LAH 35751), (GenBank # ON137221(nrITS); Punjab, Lahore, solitary on rich loamy soil along Pak. Motorway (M3) near Eucalyptus camadulensis, 217 m a.s.l., 14 August 2016, Hira Bashir, M4 (LAH 35752), (GenBank # ON137222); Punjab, Lahore, solitary on rich loamy soil along Pak. Motorway (M3) near Eucalyptus camadulensis, 217 m a.s.l., 14 August 2016, Hira Bashir, M6 (LAH 35753), (GenBank # ON137223); Punjab, Lahore, solitary on rich loamy soil along Pak. Motorway (M3) under Eucalyptus camadulensis, 217 m a.s.l., 1 September 2016, Hira Bashir, M22 (LAH 35754), (GenBank # ON137224); Punjab, Lahore, solitary on rich loamy soil along motorway Eucalyptus camadulensis, 217 m a.s.l., 4 August 2015, Hira Bashir, F3 (LAH 35755), (GenBank # ON137225); Punjab, Lahore, solitary on rich loamy soil along Pak. Motorway (M2) under Eucalyptus camadulensis, 217 m a.s.l., 4 August 2015, Hira Bashir, F4 (LAH 35756), (GenBank # ON137226); Punjab, Lahore, solitary on rich loamy soil along Pak. Motorway (M2) near Eucalyptus camadulensis, 217 m a.s.l., 4 August 2015, Hira Bashir, F5 (LAH 35757), (GenBank # ON137227); Punjab, Lahore, solitary on rich loamy soil along Pak. Motorway (M2) near Eucalyptus camadulensis, 217 m a.s.l., 4 August 2015, Hira Bashir, F11 (LAH 35758), (GenBank # ON137228); Punjab, Lahore, gregarious on rich loamy soil along Pak. Motorway (M2) near under Eucalyptus camadulensis, 217 m a.s.l., 6 August 2015, Hira Bashir, F53 (LAH 35759), (GenBank # ON137229); Punjab, Toba Tek Singh, solitary in grassy ground near Dalbergia sissoo, 183 m a.s.l., 30 June 2017, Hira Bashir, TS57, (LAH 35760), (GenBank # ON137230). Punjab, Kasur district, Changa Manga forest, scattered on decomposed matter under deciduous trees, 218 m a.s.l., 2 September 2021, Aneega Ghaffor and A.R. Niazi, CM09 (LAH 02921), (GenBank # ON137231).

Ecology and distribution: Gregarious on grassy grounds, some under Eucalyptus camaldulensis Dehnh. trees along Pak. Motorway (M2 & M3) and TS57 found near Dalbergia sissoo trees along the roadside in sandy soil. It is only known from the Punjab province of Pakistan so far.

Notes: Agaricus badiosquamulosus was published under this name by Bashir, Asif, Ghafoor, Niazi, Khalid, Parveen, Harun, Afshan, Bibi & Callac, PLoS ONE 19 (7/e0302222): 6-20. (2024), nom. inval., ICNafp Shenzen Code Art. F.5.1. (no citation of an identifier issued for the name by a recognized repository was included). The name is formally validated here.

Agaricus dunensis H. Bashir & M. Asif, sp. nov.

IF 903271

Holotype: LAH 35747

Etymology: 'dunensis' in Latin referred to sand dune area from where the type specimen was recorded for the first time.

Description: Bashir, Asif, Ghafoor, Niazi, Khalid, Parveen, Harun, Afshan, Bibi & Callac, PLoS ONE 19 (7/e0302222): 21-26 (2024).

Specimens examined: Pakistan, Punjab, Lal Suhanra National Park, Cholistan desert, Bahawalpur, scattered on sandy soil under Acacia nilotica trees, 140 m a.s.l., 23 June 2017, Hira Bashir, L99 (holotype LAH 35747), GenBank # ON137217 (nrITS); Punjab, Lal Suhanra National Park, Cholistan desert, Bahawalpur, scattered on sandy soil near Acacia nilotica trees, 140 m a.s.l., 30 August 2016, Hira Bashir, L2, (LAH 35748), (GenBank # ON137218); Punjab, Lal Suhanra National Park, Cholistan desert, Bahawalpur, scattered on sandy soil near Acacia nilotica, 140 m a.s.l., 7 August 2013, Hira Bashir and Muhammad Usman, LS4, (LAH 35749), (GenBank # ON137219); Punjab, Toba Tek Singh, solitary in grassy ground near Dalbergia sissoo, 183 m a.s.l., 30 June 2017, Hira Bashir, TS56, (LAH 35750), (GenBank # ON137220). Punjab, District Bahawalpur, from loamy soil along the canal bank under Acacia nilotica, 163 m a.s.l, 5 September 2020, Aneeqa Ghafoor and A.R. Niazi, BWL 01 (LAH 21719), (GenBank # ON158598). Punjab, District Bahawalnagar, from loamy soil along the canal bank under Acacia nilotica, 163 m a.s.l, 31 July 2019, Muhammad Asif, BWN 34 (LAH 36808), (GenBank # ON158597). Punjab, District Bahawalnagar, from loamy soil along the canal bank under Acacia nilotica, 163 m a.s.l, 11 August 2019, Muhammad Asif, BWN 64 (LAH 36807) (GenBank # ON158596). Punjab, District Bahawalnagar, from nutrient rich loamy soil along the canal bank under Acacia nilotica, 163 m a.s.l, 11 August 2019, Muhammad Asif, BWN 67, (LAH 36805), (GenBank # ON158600). Punjab, District Bahawalnagar, from muddy soil along the canal bank under Acacia nilotica, 163 m a.s.l, 04 October 2019, Muhammad Asif, BWN 85, (LAH 36806), (GenBank # ON158599).

Ecology and distribution: Growing solitary and in groups on sandy soil under Acacia nilotica trees in the desert and its surrounding areas. The distribution of this species is known from arid regions of Pakistan until now.

Notes: Agaricus dunensis was published under this name by Bashir, Asif, Ghafoor, Niazi, Khalid, Parveen, Harun, Afshan, Bibi & Callac, PLoS ONE 19 (7/e0302222): 21-26. (2024), nom. inval., ICNafp Shenzen Code Art. F.5.1. (no citation of an identifier issued for the name by a recognized repository was included). The name is formally validated here.

Agaricus violaceopunctatus H. Bashir, sp. nov.

IF 903272

Holotype: LAH 35767

Etymology: 'violaceo' originate from Latin meaning of violet color and 'punctatus' means condensed at some point, which referred that our species has violet-colored squamules condensed at disc of pileus.

Diagnosis: Bashir, Asif, Ghafoor, Niazi, Khalid, Parveen, Harun, Afshan, Bibi & Callac, PLoS ONE 19 (7/e0302222): 31-34 (2024).

Specimens examined: Pakistan, Punjab, University of the Punjab, Lahore, solitary on rich loamy soil on the grassy grounds of the University, 217 m a.s.l., 11 July 2016, Hira Bashir, PU125 (holotype LAH 35767); Punjab, University of the Punjab, Lahore, solitary on rich loamy soil on the grounds of the University, 217 m a.s.l., 13 July 2016, Hira Bashir, PU234 (LAH 35768). Punjab, Kasur district, Changa Manga forest, scattered on ground, 218 m a.s.l., 21 July 2019, Aneeqa Ghaffor and A.R. Niazi, CM16 (LAH 21719).

Ecology and distribution: In groups, on grassy grounds of Botanical Garden, University of the Punjab, near Eucalyptus trees. This species is known only from Lahore, Pakistan until now.

Notes: Agaricus violaceopunctatus was published under this name by Bashir, Asif, Ghafoor, Niazi, Khalid, Parveen, Harun, Afshan, Bibi & Callac, PLoS ONE 19 (7/e0302222): 31-34. (2024), nom. inval., ICNafp Shenzen Code Art. F.5.1. (no citation of an identifier issued for the name by a recognized repository was included). The name is formally validated here.