

LICHENES MINUS COGNITI EXSICCATI

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351. *Agonimia koreana* KASHIW. & K.H. MOON, sp. nov.

Isotype

Thallus ut in *Agonimia opuntiella* sed superficies superiore eciliato et superficies inferiore subfarinose-pulverato differt.

Type collection. Korea. Prov. Gangwon: Baekdam valley, Yongdae-ri, Inju-gun (38°10'31"N, 128°22'15"E). Over mosses on rock along stream, elevation 380 m, October 22, 2006, K.H. Moon 10040 (holotype in NIBR; isotypes distributed as Lichenes Rariores et Critici Exsiccati, no. 351).

Thallus saxicolous or muscicolous, bluish gray or brownish gray, minutely squamulose; squamules crowded, ascending, irregularly and palmately branched, consisting of segments more or less convex and 0.2–0.4 mm wide; upper surface dull, without cortical hairs. Thallus 0.8–1.2 mm thick, paraplectenchymatous throughout, composed of polygonal cells (5–8 μ m in diameter); upper most cells loosely papillate but lacking cilia; lower-most cells densely papillate; algal layer 30–45 μ m thick; algal cells ellipsoid, 3–5 \times 5–9 μ m in size. Perithecia and pycnidia not seen.

Agonimia koreana resembles *A. opuntiella*, a species widely distributed in the Northern Hemisphere, in having similar thallus and habit. However, it can be easily distinguished from the latter by the absence of cortical hairs on the upper surface of squamules. In addition, outer surface of cortical cells very weakly papillate or almost lacking in *A. koreana*, whereas they are densely papillate in *A. opuntiella*.

This species was collected over mosses on rocks along road near a stream, where it grows together with *Cladonia conista*, *Endocarpon pallidum* and *Phaeophyscia hispidula*. Known only from the type locality, but it is common in the valley at elevations between ca 300 to 400 m.

Korea. Prov. Gangwon: Baekdam valley, Yongdae-ri, Inju-gun (38°10'31"N, 128°22'15"E). Over mosses on rock along stream; elevation 380 m. October 22, 2006

Coll.: K.H. MOON 10040.

Det.: H. KASHIWADANI and K.H. MOON

352. *Cetrariastrum cirrhatum* (FR.) W.L. CULB. & C.F. CULB.

Bryologist 84: 283. 1981.

Taiwan. Prov. Chiayi: Mt. Ali. On twigs of *Rhododendron* sp.; elevation about 2200 m. October 25, 1976.

Coll.: H. IZUMI & M. TOGASHI s.n.

Det.: H. KASHIWADANI

353. *Cetrariastrum neocirrhatum* (HALE & M. WIRTH) W.L. CULB. & C.F. CULB.

Bryologist 84: 289. 1981.

Peru. Dept. Cuzco. Prov. Quispicanchis: Between Marcapata and Achubamba, along the road from Marcapata to Quinceville; in wet forest in "Ceja de Selva" zone; alt. 2600–2800 m. September 13, 1984.

Coll.: H. KASHIWADANI 21643.

Det.: S. KUROKAWA

354. *Cetrariopsis wallichiana* (TAYLOR) KUROK.
 Mem. Natn. Sci. Mus., Tokyo 13: 140. 1980.
 Taiwan. Nantou Co.: Along route 820, Hohuanshan Mts., Jen-Ai Hsiang (24°17'N, 120°31'E). On bark of *Stranvaesia niitakayamaensis*; elevation about 2590 m.
 March 9, 2003.
 Coll.: H. KASHIWADANI 45597. Det.: H. KASHIWADANI
355. *Cetrelia rhytidocarpa* (MONT. & v.d.BOSCH) LAI
 Quart. J. Taiwan Mus. 33: 218. 1980.
 Taiwan. Hualien Co.: Mt. Hohuan-shan, Hsiulin-gun. On trunk of *Pinus* sp.; elevation about 3000 m. August 2, 1985.
 Coll.: H. SHIBUCHI (8035), K. YOSHIDA & M. MINETA. Det.: H. KASHIWADANI
356. *Cladonia rei* SCHAEER.
 Lich. Helv. Spic. 1: 34. 1923.
 Japan. Honshu. Prov. Ugo (Pref. Akita): Horikawa, Iijima, Akita-city. On ground (sandy soil with humus); elevation about 10 m. November 30, 2003.
 Coll.: H. KASHIWADANI 48179. Det.: H. KASHIWADANI
hieroglyphicum (Pers.) Staiger & Kalb, in Kalb et al., *Symb. Bot. Upsal.* 34: 151. 2004.
357. *Diorygma hieroglyphica* (PERS.) M. NAKAN. & KASHIW., ~~comb. nov.~~
 Basionym. *Opegrapha hieroglyphica* PERS., in *Annal. Wetter. Gesellsch.* 2: 16. 1811.
 Type collection: St. Domingo, holotype in L! Chemical substances: norstictic and stictic acids.
 Cambodia. Prov. Siem Reap: Around Ta Nei temple, Angkor Wats complex, Siem Reap (13°27'N, 103°53'E). On bark of *Dipterocarpus elatus*; elevation about 30 m.
 December 20, 2005.
 Coll.: H. KASHIWADANI 47774. Det.: H. KASHIWADANI
358. *Graphis acharii* FÉE
 Essai Cryptog. Écorc. Officin. 39. 1824.
 Cambodia. Prov. Siem Reap: around Ta Nei temple, Angkor Wats complex, Siem Reap (13°27'N, 103°53'E). On bark of *Tetrameles nudiflora*; elevation about 30 m.
 December 20, 2005.
 Coll.: H. KASHIWADANI 47773. Det.: H. KASHIWADANI
359. *Myelochroa irrugans* (NYL.) ELIX & HALE
 Mycotaxon 29: 24, 241. 1987.
 Japan. Honshu. Prov. Shinano (Pref. Nagano): Ohgisawa, Ohmachi-city. On bark of *Quercus mongolica* var. *grosseserrata*; elevation about 1300 m. September 18, 1994.
 Coll.: H. KASHIWADANI 48306. Det.: H. KASHIWADANI
360. *Myelochroa perisidians* (NYL.) ELIX & HALE
 Mycotaxon 29: 241. 1987.
 Japan. Honshu. Prov. Mikawa (Pref. Aichi): Ebi, Horai-cho, Minamishitara-gun (35°02'N, 137°33'E). On stone works in paddy field; elevation 170 m. October 18, 2003.
 Coll.: K.H. MOON 7119. Det.: K.H. MOON
361. *Neocatapyrenium cladonioideum* (VAIN.) H. HARADA
 Nat. Hist. Res. 2(2): 129. 1993.
 Korea. Prov. Gangwon: Baekdam vally, Yongdae-ri, Inje-gun (Mt. Sorak National Park) (38°10'31"N, 128°22'15"E). On rocks; elevation about 430 m. October 21, 2006.
 Coll.: K.H. MOON 10026. Det.: K.H. MOON

362. *Parmotrema* ~~subtinctorum~~ ^{subtinctorium} (Zahlbr.) Hale
 Phytologia 28: 339. 1974.
 Taiwan. Nantou Co.: ca 10 km SE from Lishan, along route 8, Hohuanshan Mts., Jen-Ai Hsiang (24°17'N, 120°30'E). On rock along road; elevation about 2100 m. March 10, 2003.
 Coll.: H. KASHIWADANI 45681. Det.: H. KASHIWADANI
363. *Physcia dimidiata* (Arnold) Nyl.
 Flora 64: 537. 1881.
 Mexico. Baja California: Isla Cedros, N-end on road to water tanks (28°08'N, 115°13'W). On bark of *Juniperus californica*; elevation 1000 m. March 21, 1994.
 Coll.: H. KASHIWADANI 44868. Det.: T.L. Esslinger
364. *Ramalina hossei* Vain.
 Ann. Soc. zool.-bot. Fennic. 1: 36. 1921.
 Taiwan. Prov. Hualien: Mt. Nan-Fu-Ta-San. On twigs of *Osmanthus bioritsuensis*; elevation 2400–2600 m. January 20, 1964.
 Coll.: S. Kurokawa 1053. Det.: H. KASHIWADANI
365. *Ramalina laevigata* Fr.
 Syst. Orb. Veget. 1: 283. 1825.
 Chile. Tierra Del Fuego: Between Onaisin and Cameron; ca 10 m alt., in open place along seacoast and meadow. December 8, 1981.
 Coll.: H. KASHIWADANI 19022. Det.: H. KASHIWADANI
366. *Ramalina quercicola* Kashiw. & T.H. Nash
 Lich. Fl. Great Sonor. Desert Reg. 2: 451. 2004.
 Mexico. Estado De Sinaloa: Sierra Madre Occidental, 1 km S of Barranca Lievre near route 40.2 km W of the Durango border (23°28'N, 105°50'W). On bark of *Quercus* sp.; elevation about 2300 m. May 27, 1992.
 Coll.: H. KASHIWADANI 37185. Det.: H. KASHIWADANI
367. *Ramalina subbreviscula* Asahina
 J. Jpn. Bot. 15: 216. 1839.
 Japan. Kyushu. Goto Islands: Tainohana, Tamanoura-cho, Fukue Island. On rocks along the coast. November 26, 1982.
 Coll.: S. Kurokawa 82112. Det.: H. KASHIWADANI
368. *Ramalina terebrata* Hook.f. & Taylor
 London J. Bot. 3: 654. 1844.
 Chile. Prov. Magallanes: Morro Chico, about 130 km north of Punta Arenas. On rocks, on dry rocky cliff in open place; elevation about 230 m. December 14, 1981.
 Coll.: H. KASHIWADANI 18993. Det.: H. KASHIWADANI
369. *Ramalina yasudae* Rasänen
 J. Jpn. Bot. 16: 87. 1839.
 Korea. Chungchongbuk-do: Namhari Saji Buddha image on a cliff, Namha-ri, Jungyung-gun (36°45'11"N, 127°35'40"E). On rocks; elevation about 145 m. August 2, 2006.
 Coll.: K.H. Moon 9000. Det.: H. KASHIWADANI
370. *Stereocaulon curtatum* Nyl.
 Lich. Jap. 18. 1890.
 Japan. Honshu. Prov. Shinano: Mt. Ioh-dake, Yatsugadake Mts., Chino-shi. On rocks; ele-

vation about 2700 m. August 9, 1988.

Coll.: H. SHIBUICHI (8471), K. YOSHIDA & M. MINETA.

Det.: H. SHIBUICHI

371. *Thamnotia juncea* R.SANT.
Symb. Bot. Upsal. 34: 396. 2004.
Papua New Guinea. Central District: Mt. Albert Edward; en route from tent site (about 3000 m alt.) to summit area; elevation about 3100 m. October 25, 1975.
Coll.: S. KUROKAWA 9399. Det.: H. KASHIWADANI
372. *Thysanothecium scutellatum* (Fr.) D.J.GALLOWAY
Nova Hedwigia 36: 390. 1982.
Japan. Kyushu. Prov. Hyuga (Pref. Miyazaki): Around Ayakawa-so, Aya-cho, Higashimorokata-gun. On bark of *Cryptomeria japonica*; elevation 30 m. February 26, 2004.
Coll.: H. KASHIWADANI 47548. Det.: H. KASHIWADANI
373. *Thysanothecium scutellatum* (Fr.) D.J.GALLOWAY
Nova Hedwigia 36: 390. 1982.
Taiwan. Taichung Co.: Hashian-shan, Hopen Hsiang (24°19'N, 121°01'E). On bark of *Cunninghamia lanceolata*; elevation 800–900 m. March 6, 2003.
Coll.: H. KASHIWADANI 45674. Det.: H. KASHIWADANI
374. *Umbilicaria esculenta* (MIYOSHI) MINKS
Mém. Herb. Boissier 21: 46. 1900.
Korea. Prov. Gangwon: En route from Woljeong temple to Sangwon temple. Mt. Ohdae, Dongsan-ri, Jinbu-myun, Pyongchang-gun. On rocks; elevation about 600 m. May 2, 2007.
Coll.: K.H. MOON 10001. Det.: K.H. MOON
375. *Usnea longissima* ACH.
Lich. Univ. 626. 1810.
Japan. Honshu. Prov. Musashi (Pref. Saitama): Azusa-shiroiwa, en route from Mikuni Pass to Jyumonji Pass, Ohtaki-mura, Chichibu-gun. On twigs; elevation about 1800 m. October 28, 1973.
Coll.: M. TOGASHI s.n. Det.: H. KASHIWADANI