

Type Collection in the Herbarium of National Science Museum, Tokyo (TNS)
AGARICALES Named by Dr. Tsuguo Hongo (4)

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Abstract Thirty-seven holotype and nine paratype specimens of the Agaricales named by Dr. Tsuguo Hongo, which have been donated by him to the herbarium of the National Science Museum (TNS), are listed in addition to the previous lists (Doi, 1991, 1993 and 1996).

Keywords: Agaricales, Type specimens, T. Hongo collection, TNS.

Alnicola lactariolens Cléménçon & Hongo, *Mycoscience*, **35**: 25 (1994).

On the ground, in *Quercus*, *Pinus* forest, Tomikawa, Ōtsu, Shiga, Aug. 15, 1988,
T. Hongo & H. Cléménçon, HC88/95 [TNS-F-237670=holotype].

Boletus aokii Hongo, *Trans. Mycol. Soc. Jpn.*, **25**: 283 (1984).

Japanese name: Hime-koji-take

Along road-cuts, under oaks, Senjo, Ōtsu (=Ōtsu City, Shiga Pref.), Aug. 6,
1980, T. Hongo, Hongo Herb. no. 6138 [TNS-F-237650=holotype].

Boletus odaiensis Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (23): 39 (1973).

Japanese name: Odai-ashibeni-iguchi

In forest of *Abies homolepis*, Mt. Odaigahara, (Nara Pref.), Aug. 2, 1972. T.
Hongo, Hongo Herb. no. 4687 [TNS-F-237649=holotype].

Boletus subcinnamomeus Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (27): 24
(1977).

Japanese name: Sazanami-iguchi

Under *Quercus serrata*, *Q. acutissima*, etc., Nango-Imodani, Ōtsu (=Ōtsu City,
Shiga Pref.), Sept. 28, 1977, T. Hongo, Hongo Herb. no. 5671 [TNS-F-
237657=holotype, under the name *Xerocomus subcinnamomeus* Hongo];
In oak forest, Nango-Imodani, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 8,
1973, T. Hongo, Hongo Herb. no. 4941 [TNS-F-182277=paratype].

Note. Hongo changed the genus name of this species from *Boletus* to *Xeroco-*
mus on the label of the holotype specimen.

Boletus subfuscus Hongo, *Trans. Mycol. Soc. Jpn.*, **21**: 221 (1980).

Japanese name: Susuke-awa-take

Under *Pinus*, *Quercus*, etc., Terabe, Ōtsu (=Ōtsu City, Shiga Pref.), July 22,
1967, T. Hongo, Hongo Herb. no. 3419 [TNS-F-237655=holotype].

Heimiella japonica Hongo, *J. Jpn. Bot.*, **44**: 237 (1969).

Japanese name: Beni-iguchi

In forest of *Pinus densiflora* (mixed with various broad-leaved trees and shrubs), Senjo, Ōtsu (=Ōtsu City, Shiga Pref.), Aug. 31, 1966. T. Hongo, Hongo Herb. no. 3294 [TNS-F-237656=holotype]; Gregarious on the ground under *Pinus densiflora* by roadsides, Terabe, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 10, 1958 [TNS-F-238635=paratype].

Hydropus kansaiensis Cléménçon & Hongo, *Mycoscience* **35**: 22 (1994).

On the bark of living trees of *Metasequoia*, Shiga Univ. Campus, Ōtsu, Shiga, Aug. 19, 1988, H. Cléménçon HC 88/116 [TNS-F-237669=holotype].

Strobilomyces seminudus Hongo, *Trans. Mycol. Soc. Jpn.*, **23**: 197 (1982).

Japanese name: Ko-oni-iguchi

In forest of *Castanopsis* (along road-cuts), Kokubu, Ōtsu-city (Shiga Pref.), Sept. 3, 1973, T. Hongo, Hongo Herb. no. 4923 [TNS-F-174779=holotype].

Stropharia aeruginosa (Fr.) Quéf. forma **brunneola** Hongo, *J. Jpn. Bot.*, **40**: 312 (1965).

Japanese name: Cha-moegi-take

Gregarious on the ground in deciduous forest (*Quercus*, *Fagus*, *Acer*, etc.), near Mikuni-toge, Nadasho-mura, Fukui Pref., Oct. 27, 1964, T. Hongo, Hongo Herb. no. 2999 [TNS-F-237557=holotype]; On heap of decayed grass, in pine forest, Senjo, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 28, 1964, T. Hongo, Hongo Herb. no. 2951 [TNS-F-237558=paratype].

Stropharia rugosoannulata Farlow forma **lutea** Hongo, *J. Jpn. Bot.*, **27**: 371 (1952).

Japanese name: Ki-saketsuba-take

Among grass by roadsides, Seta-cho, Shiga Pref., May 11, 1952, T. Hongo, Hongo Herb. no. 341 [TNS-F-237559=holotype]; On dust heap, Minami-okaya, Seta-cho, Shiga Pref., June 15, 1952, T. Hongo, Hongo Herb. no. 376 [TNS-F-237560=paratype].

Suillus viscidipes Hongo, *J. Jpn. Bot.*, **49**: 301 (1974).

Japanese name: Hime-numeri-iguchi

In forest under *Quercus*, *Pinus*, etc., Senjo, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 10, 1973, T. Hongo, Hongo Herb. no. 4943 [TNS-F-237560=holotype].

Tricholoma aurantiipes Hongo, *Trans. Mycol. Soc. Jpn.*, **32**: 464 (1991).

Japanese name: Futairo-shimeji

In oak and pine forest, Mt. Omine, Takarazuka-city (Hyogo Pref.), Oct. 17, 1985, Y. Murakami, Hongo Herb. no. 6677 [TNS-F-237562=holotype].

Tricholoma bakamatsutake Hongo, *J. Jpn. Bot.*, **49**: 294 (1974).

Japanese name: Baka-matsutake

In oak forest (*Quercus mongolica* var. *grosseserrata*, etc.), Soma-mura, Aomori Pref., Sept. 11, 1973, M. Narita, Hongo Herb. no. 4947 [TNS-F-237615=

holotype].

Tricholoma fulvocastaneum Hongo, *Jpn. Bot.*, **35**: 86 (1960).

Japanese name: Nise-matsutake

Gregarious, in wood of *Quercus serrata*, Takayama-mura, Kyoto (=Kyoto Pref.), Sept. 30, 1954, T. Hongo, Hongo Herb. no. 1033 [TNS-F-237617=holotype].

Tricholoma maculatipes Hongo & Matsuda, *Jpn. Bot.*, **37**: 369 (1962).

Japanese name: Aza-shimeji

Gregarious on the ground in frondose forest (*Quercus mongolica* var. *grosse-serrata*), Sandankyo, Hiroshima Pref., Oct. 12, 1956, T. Hongo, Hongo Herb. no. 1556 [TNS-F-237619=holotype].

Note. Hongo (1962, loc. cit.) used the name "*Tricholoma maculatipus* Hongo & Matsuda" in the original description and the label of the holotype specimen of this species.

Tricholoma muscarium Kawam. ex Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (9): 62 (1959).

Tricholoma muscarium Kawam., *Icones of Japanese fungi* **4**: 449, fig. 434 (1964).

Japanese name: Haetori-shimeji

Kamako-mura, Iwaki (Fukushima Pref.), Sept. 23, 1952, R. Watanabe, Hongo Herb. no. 585 [TNS-F-237621=holotype].

Note. Kawamura (1964, loc. cit.) published this species in his picture book. However, the illustration of this species was not accompanied by a Latin diagnosis nor Latin description, and the holotype of this species was not indicated. Therefore this species name was invalid. Hongo paid regard to Kawamura's species name and published this species under the Kawamura's epithet with a Latin diagnosis and indication of the holotype specimen.

Tricholoma radicans Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (18): 47 (1968).

Japanese name: Shiro-matsutake-modoki

In forest of *Pinus densiflora*, Chunan-mura, Kagawa Pref., Nov. 2, 1966, T. Hongo, Hongo Herb. no. 3380 [TNS-F-237623=holotype].

Tricholomopsis bambusina Hongo, *Jpn. Bot.*, **34**: 239 (1959).

Japanese name: Yabu-akage-shimeji

On and around stumps of bamboo, Ishiyama-Hiratsu-cho, Ōtsu (=Ōtsu City, Shiga Pref.), Oct. 1, 1957, T. Hongo, Hongo Herb. no. 1673 [TNS-F-237625=holotype].

Tricholomopsis elata Hongo, *Rept. Tottori Mycol. Inst.*, **11**: 31 (1974).

In *Castanopsis* forest, Keglsugl (the foot of Mt. Wilhelm), Papua & New Guinea, Dec. 26, 1971, T. Hongo, Hongo Herb. no. 6152 [TNS-F-228000=holotype].

Tricholomopsis sanguinea Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (16): 57 (1966).

Japanese name: Hime-chishio-shimeji

On decayed wood of conifer (*Tsuga?*), Mt. Tsurugi-san (ca. 1,500 m), Tokushima Pref., Aug. 25, 1965, T. Hongo, Hongo Herb. no. 3134 [TNS-F-237627=holotype]; on decayed wood of conifer tree, near Hanase-toge, Kyoto Pref., Sept. 26, 1965, G. Murata, Hongo Herb. no. 3149 [TNS-F-237628=paratype].

Tricholomopsis sasae Hongo, *J. Jpn. Bot.*, **35**: 85 (1960).

Japanese name: Sasa-akage-take

Cespitose on roots of *Sasa* on dike of reservoir, Ishiyama-Hiratsu-cho, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 2, 1958, T. Hongo, Hongo Herb. no. 1842 [TNS-F-237629=holotype].

Tylophilus alutaceoumbrinus Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (21): 66 (1971).

Japanese name: Fumoto-niga-iguchi

Under *Pinus densiflora*, *Quercus serrata*, etc., Shibahara, Ōtsu (=Ōtsu City, Shiga Pref.), Aug. 12, 1968, T. Hongo, Hongo Herb. no. 3694 [TNS-F-237651=holotype].

Tylophilus areolatus Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (12): 42 (1962).

Japanese name: Hibiware-niga-iguchi

On red clay in pine forest, Terabe, Ōtsu-city (Shiga Pref.), July 18, 1961, T. Hongo, Hongo Herb. no. 2516 [TNS-F-237647=holotype].

Tylophilus argillaceus Hongo, *J. Jpn. Bot.*, **60**: 372 (1985).

Japanese name: Ashiboso-niga-iguchi

In *Pinus-Quercus* forest, near Sakura-toge, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 9, 1981, Y. Kim, Hongo Herb. no. 6289 [TNS-F-237646=holotype].

Tylophilus castaneiceps Hongo, *J. Jpn. Bot.*, **60**: 375 (1985).

Japanese name: Numeri-niga-iguchi

On red clay along road-cuts, in *Pinus-Quercus* forest, Waradani, Kyoto (=Kyoto city), July 2, 1983, T. Hongo, Hongo Herb. no. 6434 [TNS-F-237654=holotype].

Tylophilus eximius (Peck) Singer var. **nanus** Hongo, *Beih. z. Sydowia* **8**: 200 (1979).

Japanese name: Ko-uraguro-niga-iguchi

In *Pinus-Quercus* forest, Chausu-yama, Ōtsu (=Ōtsu City, Shiga Pref.), July 15, 1975, T. Nakamura, Hongo Herb. no. 5289 [TNS-F-237648=holotype].

Tylophilus neofelleus Hongo, *J. Jpn. Bot.*, **42**: 154 (1967).

Japanese name: Niga-iguchi-modoki

In *Pinus-Chamaecyparis* forest, Senjo, Ōtsu-city (Shiga Pref.), Sept. 2, 1966, T. Hongo, Hongo Herb. no. 3301 [TNS-F-174771=holotype].

- Tylopilus otsuensis** Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (16): 60 (1966).
 Japanese name: Kobicha-niga-iguchi
 In forest of *Quercus serrata*, Sotohata, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 19, 1962, T. Hongo, Hongo Herb. no. 2553 [TNS-F-174776=holotype]; In forest of *Quercus serrata*, Sotohata, Ōtsu, (=Ōtsu City, Shiga Pref.), Oct. 3, 1962, T. Hongo, Hongo Herb. no. 2569 [TNS-F-237637=paratype].
- Tylopilus rigens** Hongo, *J. Jpn. Bot.*, **54**: 303 (1979).
 Japanese name: Okuyama-niga-iguchi
 In forest of *Quercus mongolica* var. *grosseserrata*, Mt. Taikoyama, Yasaka-cho, Kyoto Pref., Aug. 26, 1978, T. Hongo, Hongo Herb. no. 5776 [TNS-F-174774=holotype].
- Tylopilus ruguloso-reticulatus** Hongo, *J. Jpn. Bot.*, **54**: 302 (1979).
 Japanese name: Ko-niga-iguchi
 In pine forest, Sakura-toge, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 21, 1978, T. Hongo, Hongo Herb. no. 5810 [TNS-F-174772=holotype]; In *Pinus Chamaecyparis* forest (in acetic acid-applied plot), Iwakura, Kyoto city, June 12, 1976, N. Sagara, Hongo Herb. no. 5454 [TNS-F-237633=paratype].
- Tylopilus vinoso-brunneus** Hongo, *Beih. z. Sydowia* **8**: 198 (1979).
 Japanese name: Budou-niga-iguchi
 Gregarious or solitary in oak forest, Nango-Imodani, Ōtsu (=Ōtsu City, Shiga Pref.), Aug. 27, 1975, T. Hongo, Hongo Herb. no. 5323 [TNS-F-174773=holotype].
- Volvariella subtaylori** Hongo, *J. Jpn. Bot.*, **35**: 88 (1960).
 Japanese name: Ko-fukuro-take
 Near the base of pine tree, Yoshida-yama, Kyoto city, Sept. 16, 1955, T. Hongo, Hongo Herb. no. 1253 [TNS-F-237638=holotype]; Solitary on the ground in pine woods, Ishiyama-Senjo, Ōtsu (=Ōtsu City, Shiga Pref.), Sept. 10, 1958, T. Hongo, Hongo Herb. no. 1857 [TNS-F-237639=paratype].
- Volvariella volvacea** (Fr.) Sing. var. **nigricans** (Kawam. ex) Hongo, *J. Jpn. Bot.*, **38**: 233 (1963).
Volvaria volvacea (Bull.) Quél. var. **nigricans** Kawam., *Icones of Japanese Fungi* **5**: 596, fig. 563 (1954).
 Japanese name: Kuro-fukuro-take
 On heap of kitchen-refuse, Seta-cho (=Ōtsu City, Shiga Pref.), Oct. 4, 1961, S. Hongo, Hongo Herb. no. 2332 [TNS-F-237640=holotype].
 Note. Kawamura (1954 loc. cit.) published this variety under the name *Volvaria volvacea* (Bull.) Quél. var. *nigricans* Kawam. without a Latin diagnosis nor Latin description, and without indication of the holotype of the name of this variety. Thus, this variety was invalidly published. Hongo paid regard to Kawamura's variety name and validly published this species under

Kawamura's epithet with a Latin diagnosis and indication of the holotype.

Xerocomus nigromaculatus Hongo, *J. Jpn. Bot.*, **41**: 170 (1966).

Japanese name: Kuro-aza-awatake

Gregarious on the ground under *Quercus*, Senjo, Ōtsu (=Ōtsu City, Shiga Pref.), July 17, 1964, T. Hongo, Hongo Herb. no. 2893 [TNS-F-174775=holotype]; On red clay under *Pinus densiflora*, Terabe, Ōtsu-city, Shiga Pref., July 1, 1961, T. Hongo, Hongo Herb. no. 2272 [TNS-F-237641=paratype].

Xerocomus obscurebrunneus Hongo, *J. Jpn. Bot.*, **54**: 301 (1979).

Japanese name: Miyama-awatake

Under *Fagus*, *Quercus*, etc., Sasagamine, Myokokogen, Niigata Pref., Oct. 7, 1977, T. Hongo, Hongo Herb. no. 5684 [TNS-F-237653=holotype].

Xerocomus parvulus Hongo, *J. Jpn. Bot.*, **38**: 238 (1963).

Japanese name: Hime-awatake

In pine forest under broad-leaved trees, Senjo, Ōtsu (=Ōtsu City, Shiga Pref.), July 18, 1962, T. Hongo, Hongo Herb. no. 2522 [TNS-F-237652=holotype]; Scattered on the ground, in forest under broad-leaved trees, Senjo, Ōtsu (=Ōtsu City, Shiga Pref.), July 10, 1961, T. Hongo, Hongo Herb. no. 2281 [TNS-F-237642=paratype].

Xeromphalina curtipes Hongo, *Mem. Fac. Educ. Shiga Univ., Nat. Sci.*, (12): 40 (1962).

Japanese name: Hime-kabairo-take-modoki

Gregarious to cespitose on decaying wood of *Chamaecyparis*, Ishiyama-Hiratsuchō, Ōtsu (=Ōtsu City, Shiga Pref.), May 7, 1956, T. Hongo, Hongo Herb. no. 1425 [TNS-F-237644=holotype].

Further notes

1. The species listed below are not enumerated by Hongo (1975, 1989).

Alnicola lactariolens Cléménçon & Hongo, *Mycoscience*, **35**: 25 (1994).

Hygrophorus acutoconicus (Clém. in Woods) A. H. Smith, forma **japonicus** Hongo, in *J. Jpn. Bot.*, **31**:145 (1956).

Hydropus kansaiensis Cléménçon & Hongo, *Mycoscience*, **35**: 22 (1994).

Tricholoma aurantipes Hongo, *Trans. Mycol. Soc. Jpn.*, **32**: 464 (1991).

2. There is a specimen labelled "**Paxillus oksapminensis** Hongo, on dead wood, Oksapmin, Papua & New Guinea, Dec. 14, 1971, det. T. Hongo, TNS-F-228299, Type." in TNS. Dr. Hongo did not publish this species.

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