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Aspergillus, Penicillium, and Related Species Reported from Turkey

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This internet site was last updated on *June 09, 2009* and contains the following:

1. Background information including an abstract
2. A summary table of substrates/habitats from which the genera have been isolated
3. A list of reported species, substrates/habitats from which they were isolated and citations
4. Literature Cited

Abstract: This database, available online, reviews 554 published accounts and presents a list of species representing the genera *Aspergillus, Penicillium* and related species in Turkey. *Aspergillus niger, A. fumigatus, A. flavus, A. versicolor* and *Penicillium chrysogenum* are the most common species in Turkey, respectively. According to the published records, 389 species have been recorded from various subtrates/habitats in Turkey.

Key Words: *Aspergillus, Penicillium Eupenicillium, Gliocladium, Paecilomyces, Talaromyces, fungal habitats, microfungi, fungal isolation, Turkey.*

Introductıon

The purpose of this database is to document the *Aspergillus, Penicillium*, and the related species isolated from Turkey. The database will make the Turkish literature on the subject available to an international audience. It will also give future researchers information on whether a species is a new record for Turkey.

Aspergillus and *Penicillium* are economically, ecologically, and medically important and large genera. Species of these genera can cause the decay of stored products. They are important in view of health hazards. In addition, they are used in industrial and food fermentation processes, and they exist commonly in different types of soils, indoor and outdoor air, food and water [6, 15, 21]. Since *Aspergillus* and *Penicillium* are found almost everywhere, they are frequently cited in species lists in ecological studies. *Aspergillus* and *Penicillium* species are commonly found as contaminants in foods while drying and subsequent storage [7, 22]. Thus, accurate identification of *Aspergillus* and *Penicillium* at the species level is essential. *Aspergillus* and *Penicillium* are not easy to identify to the species level. To further complicate things, the taxonomy of both genera still needs work, but there appear to be fewer problems in *Aspergillus* than in *Penicillium*. Although molecular, biochemical and physiological methods are important for systematics of *Aspergillus* and *Penicillium* species, morphological properties are used common for identification.

Citation of the author names presented in this paper have been standardized according to Kirk & Ansell [23]. The nomenclature follows updates presented in Samson & Gams [24] and Pitt et al. [1]. Throughout my database, I assume that authors properly identified the species reported. Accepted species names are shown in bold italics. Synonyms are cross-referenced and are not in bold print. More information on the taxonomy of these two genera can be found in many books, e.g. Pitt et al. [1], Samson & Pitt [2], Raper & Thom [3], Raper & Fennell [4], Pitt [5], Domsch et al. [6], Samson et al. [7], Ramirez [8], Pitt & Hocking [9], Singh et al. [10], Samson and Pitt [11], Klich [12], Pitt [292] and in many articles such as Christensen and Backus [13], Pitt [14], Klich [15], Banke et al. [16], Muntanola-Cvetkovic et al. [17], Peterson et al. [18], Tuthill et al. [19], and Tuthill et al. [20], and Klich [12].

The online database reviews 554 published materials and presents a list of species isolated from Turkey. The species list for the *Aspergillus* and *Penicillium* species and related genera are arranged in alphabetical order. The first part of this work was published

by Asan [25] in 2000. Synonyms and authors of fungal names can be found in literature, e.g. Samson & Pitt [2], Pitt et al., [1], Klich [12] and www.indexfungorum.org

As of *June 09*, 2009, there were 389 species had been isolated and identified from the different regions of Turkey. Asan [25] gave 251 species in 2000, and this database adds 137 species to the earlier list, bringing the total number of *Penicillium* species isolated in Turkey so far to 209 and of *Aspergillus* species to 122. Some microfungal taxa which were determined only to the genus level are presented in the Colakoglu [26-28, 576], Demirci & Caglar [29], Arslan & Baykal [30], Coskuntuna & Ozer [31], Yazicioglu et al. [32], Kalmis et al. [33], Ayata et al. [34], Atik & Tamer [35], Yazicioglu et al. [36], Eltem et al. [37], Yenigun [38], Azaz [39], Gozdasoglu et al. [94], Turkutanit [95], Aslan et al. [96], Birbir et al. [97], Gokcay and Taseli [98], Topal and Pembeci [229], Ergin et al. [230], Ozyaral et al. [239], Oksuz et al. [242], Erkilic et al. [231], Gur and Akin [248], Unlu et al., [257], Saba et al., [259], Gulec et al., [262], Azaz et al. [286], Okten et al. [288, 303], Iplikcioglu et al. [300], Okten et al. [303], Erdogan [314], Harmanci et al. [317], Ulutan et al. [320], Dincer et al. [329], Yulug and Kustimur [331], Var et al. [332 and 333], Bastas et al. [336], Karabulut et al. [338], Sennazli et al. [340], Ilhan et al. [341], Demirci and Kordali [342], Gunduz and Ok [343], Cakir et al. [344], Eken et al. [345], Alptekin et al. [348], Orman et al. [361], Tamer et al. [362], Hapcioglu et al. [364], Topbas et al. [367] and references between the 192-224. Also, Sulun [40] totally published soil microfungal flora of North-East Anatolia as a review in 2001. Yoltas and Ekmekci (545, some *Aspergillus* and *Penicillium* species isolated from cereal flakes and muesli).

Fungi have some functions in ecosystems such as decomposition of organic matter, accumulation of toxic materials and production of environmental biochemicals, etc. [250]. In addition, Klich [251] reviewed the biogeography of *Aspergillus* species in soil and litter in 2002. She reviewed over 250 studies related with microfungi from soils and litter. Also Christensen et al. [252] reviewed *Penicillium* species in soil in relation to the latitude and vegetation. New fungal species have commonly been isolated from soil and plant debris [13, 253-255]. In Turkey, ***Aspergillus niger*** is the most commonly reported species. It has been reported in 241 different studies, with *A. fumigatus* in 201, *A. flavus* reported in 192, *A. versicolor* in 98, *Penicillium chrysogenum* in 94, *Aspergillus terreus* in 79, *A. ochraceus* in 66, *Penicillium glabrum* (= *Penicillium frequentans*) in 57, *Aspergillus wentii* in 56 and *Penicillium funiculosum* in 52 studies respectively. These species may adapt to

ecological conditions better than the other, more rarely reported, species. Species were isolated from different substrates and/or habitats such as, soil, water, air, food, etc. Ilhan et al. [414] illustrated 4 *Aspergillus,* 1 *Penicillium* and 1 *Paecilomyces* species as morphological in SEM, first time in Turkey. According to the Tumbay [423], first isolated *Aspergillus* species in Turkey is *Aspergillus fumigatus* that isolated from human external ear canals by Koukouli in 1923 [*Koukouli M. 1923. Enduit des conduit auditif externe provoque par Aspergillus fumigatus. Gazete Medicale d'Orient. 68: 257*; but originally of above literature is not seen; data obtained from Dr. Tumbay (423)]. But I could not find any other records between the years of 1923 and 1943. The total number of *Aspergillus, Penicillium* and the related species isolated from some substrate and/or habitats being presented in the Table 1.

Table 1. Genera and the substrates and/or habitats from which they were isolated in Turkey.

Substrate	Genus Name
Air	
Outdoor	A, P
Outdoor+Indoor	P, E
Indoor	A, P, G, Em
Food/Fodder	
Biscuit	A, P, G
Black pepper, powdered	P, E
Cake	A, P, G
Cheese	A, P
Chicken feed	A, P
Cream cake	P
Foodstuff/Feed stuff	A, P, N, Pc, Er
Fodder	A, P
Kashar cheese	A, P
Margarine	A, Pc
Meat products	A, P
Mushroom	P
Olive	A, P
Packaged powder soup	P, E
Poultry feed	A
Poultry meat	A
Red pepper, powdered	P, E, Pc, Er
Spices	A
Tomato/tomato paste	A, P
Turkish delight	P
White pepper, powdered	P, T

Wheat/fodder	A, P
Cereal flakes	A, P
Muesli	A, P
Boza	A
Butter	A, Pc

Fruits/vegetables

Apple	A, P
Apple+lemon+fig+grapefruit +apricot+tangerine+orange	P
Citrus fruits	P
Lemon	A, P
Fig	A, P
Grape	A, P
Lemon+grapefruit+quince+ tangerine+orange+apple+ pomegranate+strawberry	E
Pear	P
Satsuma mandarin	P
Seedling of vegetables	P
Seedling root of vegetables	P, E
Tomato, cucumber, aubergine	A, P, G
Cherry	P

Seeds/grains/nuts

Barley	A
Corn seed	A, P
Cereal	A, P
Chickpea	A, P
Cracked wheat	P
Haricot bean	A, P, G
Hazelnut	A, P, Er, Pc
Lentil and corn	P
Onion seed	A
Peanut	A
Pistachio nut	A, P
Pomegranate	A
Potato/onion	A, P, G
Rape seed	A, P
Rice	A, P
Seed of hungarian vetch	*A*
Soybean seed	A, P
Soybean plant	A
Walnut+hazelnut+fig+peanut	A
Wheat seed	A, P, T
Wheat/barley	A, P
Raisin	A
hazelnut+walnut+peanut +almond+roasted chickpeas	A

Soil

Agricultural soil	A, P, E, G, T, Pc
Black pine forest soil	A, P, G, Pc, Er
Cotton field soil	A
Forest soil	A, P, G, Pc, N
Greenhose soil	A, P, E, G, T, Pc, Er
Oak forest soil	A, P, G
Orchard soil	A, P
Pistachio soil+outdoor air	A
Pistachio soil	A
Soil, detailed is unknown	A, P, E, G, T, Pc, Er
Soil+outdoor air+peanut	A
Soil polluted by cement	A, P, Er
Soil polluted by meat waste	A, P
Vineyard soil	A, P
Tea field soil	A, P, G, Pc
Wheat/Barley field soil	A

Water

chlorination-stage acidic effluents of pulp and paper plant	P
Lake water	A, P, E, T, Er
Waste water	A, P
water of dental unit	A, P

General

Apricot pulp	A
Bark of tree	A, P
Baby talc powder	A, P, Pc, Er
Cat	A
Cattle	A
Chicken	A
Corn kernel	A, P
Cornflakes	A, P, Pc
Cotton material	A
Dog	A, P
Drug tablets	A, P, N, T, Pc, Er
Dung	A, Pc
Dust	A, P, E, T, Pc
Eye cosmetics	A, P, E, Pc, Er
Geese	A
Hatchery	A
Honeycomb	A
Human Skin cream	A
Human	A, P, Pc
Human dialysate sample	A
Juice of *Citrus* fruits	A, P
Lake water+outdoor air	E
Leather goods	A, P, E, N, Pc, Er
Leather	P, E, T
Lemon trees	A
Lucerne root cuttings	A
Milk	A, P
Milk, milk products, fruit juices	T

Moss	A, P
Ostrich	A
Pharmaceutical products	P, E
Pistachio trees	A
Potato storage	P
Raw cotton	A, P
Shampoo	A
Sheep, cat, monkey, horse, hen, pigeon, partridge	A
Surgical strings	A, P, E, G, T, Pc, Er
Syrup	A
Tea (packaged)	A
Turkey	A
Turkish cigarettes	A, P, Er
Turkish Van Cat	A, P
Waste of milk factory	P
Cyclotrichium sp.	P
Trialeurodes vaporariorum	Pc
Pseudoscorpion	A, P, G
buzzards (*Buteo rufinus),* scops owl *(Otus scops),* white pelican (*Pelecanus crispus*) (unknown in study for *Aspergillus fumigates* isolated which one)	A
Japanesse Quail	A

Letters indicate: A: *Aspergillus* spp., P: *Penicillium* spp., E: *Eupenicillium* spp., G: *Gliocladium* spp., N: *Neosartorya* spp., T: *Talaromyces* spp., Pc: *Paecilomyces* spp., Er: *Eurotium* spp., Em: *Emericella* spp.

During the 19th century, the systematics of *Aspergillus* was strictly botanical. With the developments of pure culture methods in the turn of the century, some properties began to be observed [305]. Four monumental books on *Aspergillus* have been published since Link's definition of the genus in 1809. Klich [12] indicated that the PA Micheli first described the genus *Aspergillus* in 1729. Thom and Church organized 69 species into 13 groups. Thom and Raper introduced Czapek Agar as a standart culture medium and organized 77 species into 14 groups in 1945 [306]. Raper and Fennell's book is published in 1965. There are places 18 groups and 132 species; also there are descriptions of 28 new species. Domsch et al. [6] have characterized 26 common species in 8 groups. Many of new species were published after 1965. Approximately 80 species in *Aspergillus* described as new between 1965-1985 and 670 publications per year have added to our knowledge of *Aspergillus* [306]. 58 new *Aspergillus* species are published between 1985-1992. In addition, 36 species of *Aspergillus* described as new between the 1992-1999 [307]. So, 174 new species between the year of 1965-2000. But, Pitt et al [1] accepted only 184 *Aspergillus* species and 24 synonyms. In addition, Pitt et al. [1] accepted 8

holomorphic genera associated with *Aspergillus* anamorphs: *Chaetosartorya, Emericella, Eurotium, Fennellia, Hemicarpenteles, Neosartorya, Petromyces* and *Sclerocleista*. Number of species generally vary in literature. Klich's work [12] was published in 2002. Although there are nearly 200 accepted *Aspergillus* species, Klich's book considers only the morphology the 45 most common species, so is not intended to be a monograph of the genus. The new species isolated from primarily, India, Europe, Egypt, Syria, tropical Africa, Japan and North America. However, as the number of species described in *Aspergillus* increased, systematics problems multiplied [305].

Some species of *Aspergillus* are osmophilic. *Aspergillus* genus can be characterized by the presence of conidiophores, vesicle (*in terminal of the conidiophore*), conidium-bearing cells (termed phialides; they may be uniseriate or biseriate), and foot cells. Foot cells of genus are generally difference as a morphologically [304]. Sclerotia can be found in some species (*Aspergillus alliaceus* Thom & Church*,* for example), but there is no sclerotia in most species. Using some media for identification of *Aspergillus* species [12]: CYA25 (*Czapek Yeast Extract Agar used at 25 C*), CYA37 (*Czapek Yeast Extract Agar used at 37 C*), CY20S (*Czapek Yeast Extract Agar with 20 % sucrose*), MEA (*Malt Extract Agar*), CZ (*Czapek Dox Agar*).

Raper and Fennell [4] used group concept for subdivision of *Aspergillus* species. But group concept has no appropriate for ICBN [*International Code of Botanical Nomenclature*], so, Samson and Gams [24] proposed new scheme [7, 12] (below). More information about relationships of sections, see important work of Peterson (557).

Subgenus	**Section**	**Teleomorph**
Aspergillus	*Aspergillus* *Restricti*	***Eurotium*** Link: Fr., *Dichlaena* Mont. & Durieu.
Fumigati	*Fumigati* *Cervini*	***Neosartorya*** Malloch & Cain.
Ornati	*Ornati*	*Warcupiella* Subram., *Sclerocleista* Subram., *Hemicarpenteles* Sarbhoy & Elphick
Clavati	*Clavati*	
Nidulantes	*Nidulantes* *Versicolores* *Usti* *Terrei* *Flavipedes*	***Emericella*** Berk. & Br. *Fennellia* Wiley & Simmons

Circumdati	*Wentii*	
	Flavi	*Petromyces* Malloch & Cain.
	Nigri	
	Circumdati	*Neopetromyces* Frisvad & Samson
	Candidi	
	Cremei	*Chaetosartorya* Subram.
	Sparsi	
	Ochraceorosei (New Sect., Source: Ref. 420)	
Stilbothamnium	[Species forming synnemata (12)]	

Aspergillus parvisclerotigenus (Saito and Tsuruta) Frisvad & Samson, comb. nov.(Source: Ref. 420)
Aspergillus brevijanus (Raper & Fennell) S.W. Peterson, comb. nov. (Source: Ref. 557).

Species identification in *Penicillium* genus is not easy. Raper & Thom's book [3] is important work on *Penicillium* taxonomy. Publications increased after published above book. And new taxonomical approaches was evolved. Work of Pitt [5] that has new idea was published in 1979 and followed other book of Pitt in the year of 2000 [292] about common *Penicillium* species. Pitt [1979] re-organised taxonomic groupings and indicated that the colony texture is not primary criteria for *Penicillium* identification. Ramirez [8] published his work in 1982. This work followed especially Raper & Thom [3]'s system and has new described species. According to the Pitt [292], above works were based primarily morphological characters and physiological propereties (*temperature and water relations, pigmentation, colony development on certain standart media*). There were 137 species of *Penicillium* proposed by Raper & Thom [3] in 1949, 150 species proposed by Pitt [5] in 1979 and 227 species proposed by Ramirez [8] in 1982. But, according to the Pitt [292], only 30 to 40 are common in nature. Using some media for identification of *Penicillium* species [292] are: CYA (*Czapek Yeast Extract Agar*), MEA (*Malt Extract Agar*), G25N (*25 % Glycerol Nitrate Agar*), CREA (*Creatine Sucrose Agar*), CSN (*Neutral Creatine Sucrose Agar*).

Key to Subgenera of *Penicillium* according to Pitt [292]:

Subgenus	**Section**
Aspergilloides Dierckx	*Aspergilloides*
	Exilicaulis
Furcatum Pitt	*Divaricatum*
	Furcatum
Penicillium	*Cylindrosporum*
	Penicillium

List of species, subtrates and/or habitats, and citation numbers

Note: Accepted names are in ***bold italics.***

Aspergillus Fr.: Fr.

[Teleomorphs (Sources: 1, 7, www.aspergillus.org.uk, http://en.wikipedia.org/wiki/Trichocomaceae): ***Emericella, Eurotium, Neosartorya, Petromyces, Fennellia, Sclerocleista, Warcupiella, Hemicarpenteles, Chaetosartorya***].

Aspergillus aculeatus Iizuka. See ***A. japonicus***

A. aeneus Sappa [Greenhouse soil (42)].

A. allahabadii B. S. Mehrotra & Agnihotri [**Soil** (46, 99), polluted by cement (45, 283); grape (41)].

A. alliaceus Thom & Church [**Soil** (47, 48, 99, 112, 119, 141, 151, 153, 156, 158, 162, 249), corn fields (163), agricultural (150), forest (49), polluted by cement (45, 283, 308); foodstuff (123, 125), outdoor air (425)]. Teleomorph: *Petromyces alliaceus* Malloch & Cain. Major mycotoxins (12): Ochratoxin A.

A. alutaceus Berk & M. A. Curtis See ***A. ochraceus***

A. ambiguus Sappa. [Leather goods (264)].

A. amstelodami L. Mangin. See **A. vitis.**

A. asperescens Stolk [**Soil**-greenhouse (42), forest (55), agricultural (150); indoor air (152)].

A. aureolus Fennell & Raper. See ***A. aureoluteus***

A. aureoluteus Munt. Reported as *A.aureolus* [Seedling root of vegetables (113)]. Teleomorph: ***Neosartorya aureola*** (Fennell & Raper) Malloch & Cain.

A. auricomus (Gueg.) Saito [**Soil** (141)**,** greenhouse (42), orchard (136); **Air**-indoor (360), outdoor (556)].

A. awamori Nakaz. [**Soil** (56, 141), corn fields (167), orchard (136), vineyard soil (577); **Dust** (134), bed (53); **Other**-grape (41), drug tablet (265), corn kernel (353)].

A. biplanus Raper & Fennell [**Soil**-greenhouse (42), corn fields (163)].

A. brunneouniseriatus Suj. Singh & B.K. Bakshi [Waste water (57), soil (158), raw cotton (294, 295)].

A. brunneus Delacr. Reported as *A. echinulatus* (Delacr.) Thom & Church. [Bed dust (53, 278), wheat/barley (128), drug tablet (265, 278), shampoo (278), spices (278), turkish delight (278), poultry meat (278)]. Teleomorph: ***Eurotium echinulatum*** Delacr.

A. caesiellus Saito [Hazelnut (166)].

A. caespitosus Raper & Thom. [Outdoor air (425)].

A. candidus Link [**Soil** (47, 48, 99, 116, 151, 153, 164, 171), greenhouse (42), polluted by cement (45, 283, 308), burnt and normal forest (49), agricultural (44), black pine and oak forest (62); **Air** (293, 368), outdoor (60, 275, 301, 440, 517, 556); indoor (58, 61, 152, indoor air of patient home's with allergic alveolitis (463); **Dust** (134), bed (53); **Seed**-wheat (54), barley (64), soybean (127), rape (131), wheat/barley (128), wheat-feed products (516), cereal (130), hazelnut (140), rice (188); **Other**: Foodstuff (51,

52, 123, 125, 154), substrate and/or habitat are unknown (59, 185), human skin wound (63), feed stuff (65, 267), poultry feed (66), pharmaceutical products (129, 142, 183), lemon trees (133), olive (148), drug tablet (265), baby talc powder (271), surgical strings (273), wheat/fodder (347), isolated from *Eurygaster integriceps* = Sunn pest (395), isolated from *Cyclotrichium* sp. (513), dried fig (591)]. Important metabolites (Source: 7, 12): Terphenyllin, xanthoascin.

A. carbonarius (Bainier) Thom [**Soil** (141), greenhouse (42), vineyard soil (577); **Air**-indoor (152), outdoor (155); **Other**-foodstuff (51, 52, 125, 154), grape (41), bed dust (53), eye cosmetics (272), vineyard (560)].

A. carneus Blochwitz [**Soil** (67, 99, 141, 144), agricultural (153, 156), polluted by cement (45, 161, 283), burnt and normal forest (49), forest (55); grape (41), olive (148), dung (170), haricot bean (355), outdoor air (517, 556)]. Major mycotoxins (12): Citrinin.

A. cervinus Massee [**Soil** (56), greenhouse (42), agricultural (44); outdoor air (60)].

A. chevalieri (L. Mangin) [**Soil** (115, 141, 171), agricultural (153, 156); foodstuff (51, 52, 123, 125, 154), bed dust (53, 278), pharmaceutical products (142), juice of *Citrus* fruits (266, 278), eye cosmetics (272), powdered black pepper (274), syrup (278), surgical strings (278), spices (278), turkish delight (278), poultry meat (278), outdoor air (556), accurate habitat/substrate is unknown (538)]. Teleomorph: ***Eurotium chevalieri*** L. Mangin [Feed stuff (65), red pepper (77), soil (249), leather goods (264, 278), drug tablet (265, 278), apricot pulp (270)]. Reported as *A. equitis* Samson & W. Gams [Soil (99)]. Reported as *A. chevalieri* var. *multiascosporus* Nakaz [Soil (112, 114)]. Reported as ***A. chevalieri*** *var.* ***chevalieri*** [Eye cosmetics (272)].

A. chevalieri var. *intermedius* (Thom & Raper) Malloch & Cain. See ***A. intermedius***

A. chevalieri var. *multiascosporus* Nakaz. See ***A. chevalieri***

A. citrisporus Hohn. [**Air-**Indoor (152), outdor (556); substrate and/or habitats are unknown (415), nature or human, accurate habitat/substrate is unknown (457)]. Teleomorph: ***Sclerocleista thaxteri*** Subram.

A. clavatonanicus Bat. H. Maia & Alecrim [Outdoor air (159)].

A. clavatus Desm. [**Air** (293), indoor (152), library air (501), outdoor (556); foodstuff (51, 52, 123, 125, 154), human skin wound (63), feed stuff (65, 267), soil (6, 46, 112, 114, 164), meat products (100), cereal (130), substrate and/or habitat are unknown (189), leather (263), leather goods (264), wheat-feed products (516)]. Important metabolites (7, 12): Patulin, ascladiol, cytochalasin E, tryptoquivalins.

A. conjunctus Kwon-Chung & Fennell [Nature or human, accurate habitat/substrate is unknown (457)].

A. coremiiformis Bartoli & Maggi [Outdoor air (556)].

A. cremeus Kwong-Chung & Fennell See ***A. cremeoflavus***

A. cremeoflavus Samson & W. Gams. Reported as *A. cremeus* [Foodstuff (125)]. Teleomorph ***Chaetosartorya cremea*** (Kwon-Chung & Fennell) Subram.

A. cristatus Raper & Fennell. See ***A. cristatellus***

A. cristatellus Kozak. Reported as *A. cristatus*: [Substrate and/or habitat are unknown (68), bed dust (53, 278), spices (278), turkish delight (278), poultry meat (278), leather goods (278)]. Teleomorph: ***Eurotium cristatum*** (Raper & Fennell) Malloch & Cain. [Greenhouse soil (42)]

A. deflectus Fennell & Raper [**Soil**-greenhouse (42), agricultural (44), polluted by meat waste (165)].

A. diversus Raper & Fennell [Olive (148)].

A. echinulatus (Delacr.) Thom & Church. See ***A. brunneus***

A. elegans Gasperini [Soil (116), accurate habitat/substrate is unknown (538)].

A. ellipticus Raper & Fennell [Burnt and normal forest soil (49)].

A. equitis Samson & W. Gams. See ***A. chevalieri***

A. ficuum (Reichardt) Henn. See ***A. niger***

A. fischeri Wehmer. See ***A. fischerianus***

A. fischerianus Samson & W. Gams [Feed stuff (65)]. Reported as *A. fischeri* [= ***Neosartorya fischeri*** (Wehmer) Malloch & Cain.]. [**Soil** (112, 114, 144), forest (509); Indoor air of patient home's with allergic alveolitis (463), bed dust (53), foodstuff (123, 125), Feed stuff (65), fig (145), substrate and/or habitat are unknown (121, 415), leather (263), leather goods (264), drug tablet (265), surgical strings (273), nature or human, accurate habitat/substrate is unknown (457)]. Major mycotoxins (12): Verrucologen, fumitremorgin A & B. Teleomorph (1, 534): ***Neosartorya fischeri*** (Wehmer) Malloch & Cain. var. ***fischeri***. Reported as *A. fischeri* Wehmer [Soil (112, 114, 144), bed dust (53), foodstuff (123, 125), fig (145), substrate and/or habitat are unknown (121), leather (263), leather goods (264), drug tablet (265), surgical strings (273)].

A. flaschentraegeri Stolk [Grape (41), agricultural soil (150)].

A. flavipes (Bainier & Sartory) Thom & Church [**Soil** (47, 48, 112, 114, 119, 120, 143, 158), agricultural (44, 150, 153, 156), greenhouse (42), wheat fields (69); indoor air (61, 152), waste water (57), human skin wound (63)]. Teleomorph: ***Fennellia flavipes*** B. J. Wiley & E. G. Simmons.

A. flavofurcatus Bat. & H. Maia [Grape (41), vineyard soil (70, 282), corn kernel (353)].

A. flavus Link [**Soil** (46-48, 56, 71, 73, 76, 78, 99, 115, 116, 119, 138, 139, 143, 144, 151, 182, 191, 228, 249), burnt and normal forest (49), oak forest (75), polluted by cement (45, 283, 308), black pine and oak forest (62), greenhouse (42), orchard (136), agricultural (150, 164, 246), tea field (302), black pine forest (555), environs of thermic power plant (566); **Human** (298, 321, 481, 506, 522, 541, 561, 568), skin wound (63), pericardial fluid (102)**,** phlegm (79, 500), ear (234, 268, 276, 372, 389), external ear canals with otomycosis (316, 388, 482, 533), paranasal sinuses (238), maxillary sinus (375), nail (240, 358), phlegm (277), bronchoalveolar lavage (BAL) (280, 500, 542, 583), sputum (371), bronchial mucosa (377), lung (438, 519), heart (455), tongue biopsy (473), biopsy sample obtained from left periorbital part (480), nose fluid (483), eye (524), cereprospinal fluid (554), *[respiratory specimens (*one of the sputum, bronchoalveolar lavage fluid or tracheal aspiration*), biopsy samples (*nasal, sinus, skin, lung, lymph node or oral cavity lesion*), pus specimens, sinonasal aspiration (*sinus, nasal*), blood culture or bone marrow aspiration]* (564); **Air** (293, 368), hospital air (289), *outdoor* (60, 275, 365, 425, 517, 556), *indoor* (152, 359, 360, 363, 440, indoor air of high school (462), indoor/outdoor (135), indoor air of patient home's with allergic alveolitis (463), library air (501), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall (552); **Seed**-wheat (54, 350), soybean (124, 126, 127), corn (258, 351, 353, 391), barley (448), wheat-feed products (516), peanut (80, 179, 346), walnut, hazelnut, fig and peanut (81), hazelnut (101, 140, 166, 178, 232, 247, 269, 390, 432, 464, 540 - *Note: Information on reference 432 was obtain from literature 431, originally of literature 432 is not seen*), pistachio nut (103), cereal (130, 184); **Olive** (148), natural black olives in brine (327); **Cheese** (72, 132, 458), kuflu-mouldy (493); **Other**: foodstuff (51, 52, 125), grape (41), bed dust (53), substrate and/or habitat are unknown (74, 185, 187, 309, 393, 415, 427, 521, 538, 558, 562), waste water (57), tomato/tomato paste (43), feed stuff (65, 267), red pepper (77), black pepper+cumin+allspice+hotpowder pepper+red chili pepper+black chili pepper (449), poultry feed (66, 374, 412), seedling root of vegetables (113), pharmaceutical products (129, 142, 183), lemon trees (133), fig (145, 287, 379,

385, 559, 582), dried fig (589, 591), fodder (146), packaged powder soup (147), seedling of vegetables (181), leather goods (264), drug tablet (265), juice of *Citrus* fruits (266), baby talc powder (271), eye cosmetics (272), surgical strings (273), powdered black pepper (274), powdered red pepper (274, 335), powdered white pepper (274), wheat/fodder (347), hazelnut+walnut+peanut+almond+roasted chickpeas (Turkish: leblebi) (431), nature or human, accurate habitat/substrate is unknown (457), isolated from *Cyclotrichium* sp. (513), Pseudoscorpion (544), lemon fruits (585), butter (588)]. Important metabolites (7, 12): Kojic acid, 3-nitropropionic acid, cyclopiazonic acid, aflatoxin B, aspergillic acid. ***A. flavus*** var. ***columnaris*** Raper & Fennell [Outdoor air (155), powdered red pepper (274), water of dental unit (291), corn kernel (353), wheat-feed products (516)].

A. floriformis Samson & Mouch. [Greenhouse soil (42)].

A. foetidus Thom & Raper [**Dust** (134), bed (53); **Soil**-agricultural (156), vineyard soil (282, 584); grape (41), tomato/tomato paste (43), cereal (184), corn kernel (353), **Air**-outdoor (425, 517), indoor (440), indoor air of large railway station waiting hall-indoor air of faculty of medicine dining hall (552)]. ***A. foetidus*** var. ***acidus*** (Nakaz., Simo & A. Watanabe) Raper & Fennell [Vineyard soil (70), corn kernel (353, 428)]. ***A. foetidus*** var. ***pallidus*** (Nakaz., Simo & A. Watanabe.) Raper & Fennell [**Soil**-vineyard (70, 282), burnt and normal forest (49), polluted by cement (45, 283), vineyard soil (577); **Other**-grape (41), tomato/tomato paste (43), substrate and/or habitat are unknown (285, 472), moss (*Musci*) (290), corn kernel (353), wheat-feed products (516), vineyard (560)].

A. fruticulosus Raper & Fennell]. See ***A. fruticans***

A. fruticans Samson & W. Gams. Reported as *A. fructiculosus* Raper & Fennell [Agricultural soil (44)]. Teleomorph: ***Emericella fruticulosa*** (Raper & Fennell) Malloch & Cain.

A. fumigatus Fresen. [**Soil** (46, 67, 76, 78, 99, 112, 114-117, 119, 120, 141, 143, 144, 158, 164, 182, 191, 228, 249), wheat fields (69), forest (55, 509), polluted by cement (45, 283), burnt forest (49), black pine and oak forest (62), greenhouse (42), agricultural (138, 150, 153, 156, 246), corn field (163), polluted by meat waste (165), tea field (302), environs of thermic power plant (566); **Air** (368), *outdoor* (60, 275, 301, 365, 425, 517, 556), *indoor* [82, 318, 359, 360, 440, indoor air in the home of asthma patients (447), *outdoor/indoor* (135, 284), solid waste collection centres (104), indoor air of patient home's with allergic alveolitis (463), library air (501), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall (552), hospital air (289), outdoor air in environs of thermic power plant (566); **Human** (106, 243, 298, 325, 376, 378, 387, 433, 437, 467, 469, 481, 484, 485, 506, 527-529, 531, 541, 561, 568), skin wound (63, 237), lung (413, 461), lung and central nervous system (105), ear (79, 137, 234, 268, 276, 372, 389), outer ear (384, 423), external ear canals with otomycosis (388, 482, 533), bronchoalveolar lavage-BAL (236, 260, 280, 381, 479, 500, 518, 532, 546), paranasal sinuses (238, 434), eye (244), eye (from cornea) (526), articulation liquid (245), gall bladder (261), phlegm (277, 466, 470, 520), blood and bronchoalveolar lavage fluid (315), bronchial mucus (322), brain abscess (326), percutaneous aspiration (382), clinical specimens of otomycosis (436), transtracheal aspiration fluid (479) synovial fluid (488), tissue obtained by nasal endoscopy (489), mass that developed in the nasal cavity (530), exudate culture collected from flap region (505), a human that has osteomyelitis and joint infection of the ankle (508), histopathologic materials of back mass (512), cutaneous lesion (536), brain (539, 581), sputum and bronchoalveolar lavage (542), *[respiratory specimens (*one of the sputum, bronchoalveolar lavage fluid or tracheal aspiration*), biopsy samples (*nasal, sinus, skin, lung, lymph node or oral cavity lesion*), pus specimens, sinonasal aspiration (*sinus, nasal*), blood culture or bone marrow aspiration]* (564),

cerebellar abscess (487), sputum (579), human blood culture (595); **Seed**-wheat (54), rape (131), cereal (130, 184), hazelnut (140, 166); **Animal**-dog-urine, nasal swabs, lungs, kidney, liver, heart, spleen, nasal concha and lymphoid nodules (323), nasal discharge (336), ear (369), ostrich-nasal swabs, lung and trachea (279, 354), lung and air sacs (356), geese (334), turkey-granuloma (370), chicken-granuloma (392), chicken (399), sheep, cat, monkey, horse, hen, pigeon, partridge (397), male cat (426), broiler (486), buzzards (*Buteo rufinus)*-scops owl *(Otus scops)*-white pelican (*Pelecanus crispus*) (580, unknown for isolation perform which one in study), Pulvinus materials of Japanesse Quails (594); **Other**: grape (41), bed dust (53), tomato (43), lake water (83), feed stuff (65, 267), foodstuff (51, 52, 123, 125, 154), poultry feed (66, 374), meat products (100), substrate and/or habitat are unknown (121, 185, 233, 393, 415, 521, 523, 538), dust (134), pharmaceutical products (142, 183), biscuit (168), apple (169), dung (170), seedling of vegetables (181), drug tablet (265)], juice of *Citrus* fruits (266), baby talc powder (271), eye cosmetics (272), powdered black, red and white pepper (274), black pepper+cumin+allspice+hotpowder pepper+red chili pepper+black chili pepper (449), cornflakes (296), packaged tea (349), hatchery (380), margarine (445, 547), nature or human, accurate habitat/substrate is unknown (457), cheese (458), honeycomb (468), boza (587), dried fig (591)]. Important metabolites (7, 12): Gliotoxin, verrucologen, fumitremorgin A & B, fumitoxins, tryptoquivalins. ***A. fumigatus*** var**.** ***ellipticus*** Raper & Fennell [Indoor air (61), soil (164)].

A. giganteus Wehmer. [Human skin wound (63), substrate and/or habitat are unknown (121)].

A. glaucoaffinis Samson & W. Gams. Forest soil (478). Reported as *A. pseudoglaucus* Blochwitz [Indoor air (82), forest soil (55), powdered black pepper (274), turkish delight (278), poultry meat (278), dust (278)]. Teleomorph: ***Eurotium pseudoglaucum*** (Blochwitz) Malloch & Cain.

A. glaucus Link [**Air**-indoor (58), outdoor (60, 440); foodstuff (51, 52, 123, 125, 154), human skin wound (63), wheat seed (54), poultry feed (66, 374), pharmaceutical products (129, 183), rice (188), leather (263), leather goods (264), powdered red pepper (274), lake water (366), dog (369), nature or human, accurate habitat/substrate is unknown (457)]. Teleomorph: ***Eurotium herbariorum*** (F. H. Wigg.) Link [**Air** (368), outdoor (425); feed stuff (65, 154), dust (134), drug tablet (265), surgical strings (273), powdered black pepper (274), lake water (366)].

A. halophilus Sartory, R. Sartory & J. Mey. See ***A. proliferans***

A. heteromorphus Bat. &. H. Maia [**Soil** (99), greenhouse (42), vineyard (70, 282), burnt and normal forest (49)].

A. hollandicus Samson & W. Gams. See ***A. vitis***

A. insulicola Montem. & A. R. Santiago [Greenhouse soil (42)].

A. intermedius Blaser. Reported as *A. chevalieri* var. *intermedius* (Thom & Raper) Malloch & Cain. [Indoor air of patient home's with allergic alveolitis (463); bed dust (53, 278), drug tablet (265, 278), juice of *Citrus* fruits (266, 278), eye cosmetics (272), powdered black pepper (274), syrup (278), shampoo (278), spices (278), turkish delight (278), poultry meat (278), leather goods (278). Teleomorph: ***Eurotium intermedium*** Blaser.

A. janus Raper & Thom [Agricultural soil (150), substrate and/or habitats are unknown (415), nature or human, accurate habitat/substrate is unknown (457)]. ***A. janus*** var**.** ***brevis*** Raper & Thom [Burnt and normal forest soil (49)].

A. japonicus Saito [Grape (41), soil (6, 112), outdoor air (425), vineyard soil (577)]. (Some authors identified this species as *Aspergillus aculeatus* Iizuka [**Soil**-greenhouse (42), corn fields (163), agricultural (44), vineyard soil (577); **Other**-grape

(41), outdoor air (425), substrate and/or habitats are unknown (471, 472), wheat-feed products (516), vineyard (560)].

A. kanagawaensis Nehira [Outdoor air (60, 556), soil polluted by cement (45, 283)].

A. lanosus Kamal & Bhargava. [Greenhouse soil (42)].

A. malodoratus Kwon-Chung & Fennell [Agricultural soil (44)].

A. melleus Yukawa [**Soil** (158), agricultural (44, 153, 156), outdoor and pistachio soil (118), surgical strings (273)]. Major mycotoxins (12): Ochratoxin A, penicillic acid, xanthomegnin, viomellein, vioxanthin.

A. microcysticus Sappa [Outdoor air (155)].

A. montevidense Talice & J. A. Mackinnon. See ***A. vitis***

A. nidulans (Eidam) G. Winter,. [**Soil** (46-48, 112, 115, 119, 120, 139, 141, 144, 151, 158, 164, 182, 191), agricultural (150), polluted by cement (45, 283), orchard (136), vineyard (282); **Air**-indoor (58, 360), outdoor/indoor (135), outdoor (556); foodstuff (51, 52, 123, 125, 154), substrate and/or habitat are unknown (74, 538), **Human** (522), skin wound (63), bronchoalveolar lavage (280), *[respiratory specimens (*one of the sputum, bronchoalveolar lavage fluid or tracheal aspiration*), biopsy samples (*nasal, sinus, skin, lung, lymph node or oral cavity lesion*), pus specimens, sinonasal aspiration (*sinus, nasal*), blood culture or bone marrow aspiration]* (564); **Other**-red pepper (77), wheat seed (54), kashar cheese (107), cereal (130), dust (134), pharmaceutical products (183), corn (258), leather (263), leather goods (264), baby talc powder (271), internal organs and stomach contents of cattle (400)]. New name proposed by Samson & Gams [24]: *A. nidulellus* Samson & W. Gams. Teleomorph: ***Emericella nidulans*** (Eidam) Vuill. [Drug tablet (265), juice of *Citrus* fruits (266), eye cosmetics (272), surgical strings (273), powdered black pepper (274), wheat seed (350), substrate and/or habitats are unknown (415), nature or human, accurate habitat/substrate is unknown (457)]. Major mycotoxins (12): Sterigmatoocystin. ***A. nidulans*** var**.** ***acristatus*** Fennell & Raper [Vineyard soil (70, 577)]. ***A. nidulans*** var. ***echinulatus*** Fennell & Raper [Bed dust (53)].

A. niger Tiegh. [**Soil** (46-48, 56, 71, 76, 78, 87, 89, 99, 112, 114-117, 119, 120, 139, 141, 143, 144, 151, 182, 191, 227, 228, 249, 405, 511, 537, 567, 574), polluted by cement (45, 283, 308), oak forest (75), agricultural (44, 138, 150, 153, 156, 246), greenhouse (42), black pine and oak forest (62), forest (49, 84), orchard (136), tea field (302), wheat and barley field (64), cotton field (394), environs of thermic power plant (566), vineyard soil (577), forest soil or plant samples (596); **Air** (293, 368), *indoor* [58, 61, 82, 85, 152, 318, 359, 360, 363, indoor air in the home of asthma patients (447), indoor air of high school (462)], *outdoor* (60, 83, 155, 159, 226, 275, 301, 365, 425, 553, 556), solid waste collection centres (104), *outdoor/indoor* (135, 284), indoor air of patient home's with allergic alveolitis (463), library air (501), hospital air (289), outdoor air in the environs of thermic power plant (566), Laodikeis's recreation work environment (593); **Human** (106, 243, 281, 298, 319, 324, 378, 435, 467, 481, 490, 492, 494, 495, 506, 522, 541, 561), skin wound (63), phlegm (79, 122, 500), ear (137, 234, 235, 268, 276, 372, 389), outer ear (384), external ear canals with otomycosis (316, 388, 482, 533), nail (240, 241, 358), bronchoalveolar lavage (280, 479, 500), eye (383), surgical specimens of sinuses (386), human with aortitis following cardiac surgery (419), clinical specimens of otomycosis (436), dialysate sample (451), sputum (456), necrotised tissue from knee (525), *[respiratory specimens (*one of the sputum, bronchoalveolar lavage fluid or tracheal aspiration*), biopsy samples (*nasal, sinus, skin, lung, lymph node or oral cavity lesion*), pus specimens, sinonasal aspiration (*sinus, nasal*), blood culture or bone marrow aspiration]* (564); **Cheese** (132, 458), kashar (107); **Dust** (134), bed (53); **Seed**-onion (50, 86), onion skin (563), wheat (54), soybean (124, 126, 127), corn (157, 258, 351, 353, 391,

428), rape (131), wheat/barley (128), hungarian vetch (417), barley (448), chickpea (477), wheat-feed products (516), black point-affected and black point-free kernels of wheat (543), cereal (130, 184), hazelnut (140), peanut (346); **Olive** (148), Turkish-style black table olives (330), olive brine (592); **Tree**-lemon (133), pistachio (373); **Tea**-packaged (349), processed (465); **Fig** (145, 225, 385), dried fig (591); **Other**: foodstuff (51, 52, 123, 125, 154), grape (41, 416, 454), waste water (57), subtrate and/or habitat are unknown (74, 108, 121, 149, 185-187, 190, 310, 415, 418, 444, 472, 474, 475, 491, 510, 521, 523, 538, 548, 558, 578), feed stuff (65, 267), red pepper (77), black pepper+cumin+allspice+hotpowder pepper+red chili pepper+black chili pepper (449), soil+outdoor air+peanut (118), apple+lemon+fig+ grapefruit+apricot+tangerine+orange (81), poultry feed (66), meat products (100), seedling root of vegetables (113, 181), pharmaceutical products (129, 142, 183), 232), fodder (146), packaged powder soup (147), pomegranate (176), rice (188), drug tablet (265), baby talc powder (271), surgical strings (273), powdered black pepper (274), powdered red pepper (274), powdered white pepper (274), cornflakes (296), cotton material (328), human skin cream (339), wheat/fodder (347), lake water (366), lucerne root cuttings (396), internal organs and stomach contents of cattle (400), raisin (422, 459), bean (453), nature or human, accurate habitat/substrate is unknown (457), isolated from *Cyclotrichium* sp. (513), food (590)]. Important metabolites (7, 12): Naphtho-Y-pyrones, malformins, ochratoxin A. Reported as *A. ficuum* (Reichardt) Henn. [**Soil** (46, 99), wheat fields (69), polluted by cement (45, 283), orchard (136), agricultural (153, 156); grape (41), wheat/barley (128), fodder (146), potato/onion (160), apple (169), wheat-feed products (516), outdoor air (556)]. *A. niger* var. *niger* Tiegh. [Indoor air (440), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall (552), black pine forest soil (555)].

A. niveus Blochwitz [**Soil** (119, 120, 158, 162), corn fields (163)**,** wheat fields (69), greenhouse (42), agricultural (44, 150, 153, 156), forest (509); seedling root of vegetables (113), foodstuff (125), cereal (130), outdoor air (301)]. Teleomorph: ***Fennellia nivea*** (B. J. Wiley & E. G. Simmons) Samson.

A. nutans McLennan & Ducker [Soils of wheat field (69)].

A. ochraceus K. Wilh. [**Soil** (46-48, 115, 120, 141, 143, 144, 151, 158, 191, 249), black pine and oak forest (62), orchard (136), polluted by cement (161, 308), agricultural (138, 150, 153, 246), oak forest (75), black pine forest (555), vineyard soil (577); **Dust** (134), bed (53); **Air** (293), indoor (152), outdoor (301, 425, 556), outdoor/indoor (135); **Seedling**-root of vegetables (113), vegetables (181); **Seed-**wheat (54, 350), soybean (124, 127), wheat/barley (128); **Other**-grape (41), foodstuff (52, 123, 125), feed stuff (65, 267), poultry feed (66, 374), pharmaceutical products (129, 183), cereal (130) (Authors did not indicate which one cereal, such as wheat? barley?, etc.), fodder (146), potato/onion (160), fig (225), leather (263), leather goods (264), drug tablet (265), juice of *Citrus* fruits (266), eye cosmetics (272), surgical strings (273), powdered black pepper (274), powdered red pepper (274), powdered white pepper (274), Turkish-style black table olives (330), raisin (439), nature or human, accurate habitat/substrate is unknown (457), human (496), substrate and/or habitat are unknown (187, 393, 415)]. Important metabolites (7, 12): Penicillic acid, ochratoxin A, xanthomeginin, viomellein, vioxanthin. Reported as *A. alutaceus* Berk. & M.A. Curtis. [**Seed**-onion (50), hungarian vetch (417); soil (6)].

A. ornatulus Samson & W. Gams [Soil (99)]. Reported as *A. ornatus* Raper, Fennell & Tresner [**Soil** (228), agricultural (153, 156); Indoor air (61), foodstuff (125), eye cosmetics (272**)**]. Teleomorph: ***Sclerocleista ornata*** (Raper, Fennell & Tresner) Subram.

A. ornatus Raper, Fennell & Tresner. See ***A. ornatulus***.

A. oryzae (Ahlb.) Cohn [**Soil** (88, 99, 115, 120, 141, 144, 228), agricultural (44, 138, 153, 156); **Seed**-wheat (54), soybean; foodstuff (51, 52, 123, 125, 154), red pepper (77), packaged powder soup (147), human nail (241), leather goods (264), drug tablet (265); baby talc powder (271), eye cosmetics (272), surgical strings (273), **Air** (368), outdoor (425), indoor air of patient home's with allergic alveolitis (463); nature or human, accurate habitat/substrate is unknown (457), accurate habitat/substrate is unknown (538)]. Important metabolites (7, 12): Kojic acid, cyclopiazonic acid, 3-nitropropionic acid. ***A. oryzae*** var. ***effusus*** (Tiraboschi) Ohara [Soil polluted by cement (45, 283)].

A. ostianus Wehmer [Outdoor air (155), soils of corn field (163)]. Major mycotoxins (12): Ochratoxin A, penicillic acid.

A. paleaceus Samson & W. Gams. Reported as *A. stramenius* [Outdoor air (155)]. Teleomorph: ***Neosartorya stramenia*** (R. Novak & Raper) Malloch & Cain.

A. parasiticus Speare [**Air**-outdoor (301, 425, 440), outdoor/indoor (135), indoor air of patient home's with allergic alveolitis (463), hospital air (289); **Olive** (148), natural black olives in brine (327); **Soil**-wheat and barley field (64), black pine forest (555); **Fig** (287, 379, 559, 582), dried fig (591); **Seed**-wheat (54, 350), hazelnut (269, 464), corn kernel (353), hazelnut-*Corylus avellana* L. (540); **Other**: Foodstuff (51, 52, 123, 125, 154), substrate and/or habitats are unknown (59, 415, 475, 538, 558), grape (41), bed dust (53), tomato (43), human skin wound (63), poultry feed (66, 374), pharmaceutical products (129), leather goods (264), drug tablet (265), baby talc powder (271), eye cosmetics (272), surgical strings (273), powdered black pepper (274), powdered red pepper (274), powdered white pepper (274), wheat/fodder (347), nature or human, accurate habitat/substrate is unknown (457, 562), wheat-feed products (516), obtained from TUBITAK-MAM Gebze-Turkey, habitat is unknown (586)]. Important metabolites (7, 12): Kojic acid, aspergillic acid, aflatoxin B_1, B_2, G_1, G_2.

A. parvulus G. Sm. [**Soil** (115, 120, 139, 143, 144), agricultural (150), wheat fields (69); outdoor air (159), substrate and/or habitat are unknown (190)].

A. penicillioides Speg. [**Dust** (134), bed (53); **Air**-outdoor/indoor (135), indoor air of patient home's with allergic alveolitis (463); soil (116), foodstuff (52, 123, 125), leather goods (264), drug tablet (265), baby talc powder (271), eye cosmetics (272), surgical strings (273), powdered red pepper (274), wheat-feed products (516)].

A. petrakii Voros [**Soil** (76, 78, 120), greenhouse (42), vineyard soil (577); **Other**-grape (41), outdoor air (517)].

A. phoenicis (Corda) Thom [**Soil** (99, 141), agricultural (153, 156); foodstuff (51, 52, 123, 125, 154), bed dust (53), pistachio soil (118), pharmaceutical products (142), apple (169), leather goods (264), eye cosmetics (272), powdered black pepper (274), powdered red pepper (274)].

A. proliferans G. Sm. [Turkish delight (278), poultry meat (278)]. Reported as *A. halophilus* Sartory, R. Sartory & J. Mey. [Poultry meat (278)].

A. pseudoglaucus Blochwitz. See ***A. glaucoaffinis***

A. pulverulentus (McAlpine) Wehmer [Grape (41), vineyard soil (70, 282)].

A. pulvinus Kwon-Chung & Fennell [Grape (41), greenhouse soil (42), olive 148].

A. puniceus Kwon-Chung & Fennell [**Soil** (191, 249), vineyard soil (577); **Other**-Grape (41), outdoor/indoor air (135)].

A. raperi Stolk [**Air**-indoor (152), outdoor (155); foodstuff (125)]

A. recurvatus Raper & Fennell [Orchard soil (136)].

A. repens de Bary. See ***A. reptans***

A. reptans Samson & W. Gams Reported as *A. repens* de Bary [**Soil** (46, 112, 114, 120, 158, 162, 164, 171), black pine and oak forest (62), oak forest (75), agricultural

(150, 153, 156), polluted by cement (45, 283); **Air (**293**)**, indoor (152), outdoor (155, 275); foodstuff (51, 52, 125, 154), bed dust (53, 278), wheat/barley (128), pharmaceutical products (142), potato/onion (160), leather goods (264, 278), drug tablet (265, 278), juice of *Citrus* fruits (266, 278), eye cosmetics (272), syrup (278), shampoo (278), spices (278), turkish delight (278), poultry meat (278)]. Teleomorph: ***Eurotium repens*** de Bary [Red pepper (77)].

A. restrictus G. Sm. [**Air**-outdoor (425), outdoor/indoor (135); foodstuff (123, 125), soil polluted by meat waste (165)].

A. ruber (J. Konig, Spieck. & Bremer) Thom & Church. See ***A. rubrobrunneus***

A. rubrobrunneus Samson & W. Gams. [Outdoor air (440)]. Reported as *A. ruber* (J. Konig, Spieck. & Bremer) Thom & Church [**Soil** (120), agricultural(150); **Air** (293), indoor (82); wheat/barley (128), turkish delight (278), poultry meat (278)].

A. rugulosus (Thom & Raper) See ***A. rugulovalvus***

A. rugulovalvus Samson & W. Gams. Reported as *A. rugulosus* [Soil (115, 117)]. Teleomorph: ***Emericella rugulosa*** (Thom & Raper) C. R. Benj. Major mycotoxins (12): Sterigmatocystin.

A. sclerotiorum G.A. Huber [**Soil** (6, 46, 76, 99, 112, 114-116, 228), greenhouse (42), burnt and normal forest (49), agricultural (44); **Air** (368), hospital air (289); red pepper (77), wheat seed (54), raw cotton (294, 295)]. Major mycotoxins (12): Ochratoxin A, penicillic acid.

A. silvaticus Fennell & Raper [Raisin (503)].

A. sparsus Raper & Thom [Foodstuff (125)].

A. speluneus Raper & Fennell [Soil (67), dung (170)].

A. spinulosus Warcup. See ***Raperia spinulosa***

Raperia spinulosa Subram. & Rajendran. Reported as *A. spinulosus* [Substrate and/or habitat are unknown (68), grape (41), greenhouse soil (42), indoor air (82, 152)]. Teleomorph: ***Warcupiella spinulosa*** (Warcup) Subram. [This anamorph has been removed from the genus *Aspergillus*. Source: Pitt et al. (1)].

A. stramenius R. O. Novak & Raper. See ***A. paleaceus***

A. stellifer Samson & W. Gams Reported as *A. variecolor* (Berk. & Broome) Thom & Raper [Grape (41), soil (112, 114), outdoor air (425), substrate and/or habitat are unknown (427)]. Teleomorph: ***Emericella variecolor*** Berk. & Broome

A. stromatoides Raper & Fennell [Greenhouse soil (42)]. Teleomorph: ***Chaetosartorya stromatoides*** B. J. Wiley & E. G. Simmons.

A. subsessilis Raper & Fennell. [**Soil** (249), agricultural (246)].

A. sulphureus (Fresen.) Wehmer [**Soil** (46, 182, 191, 228), polluted by cement (45, 283); **Seedling**-root of vegetables (113), vegetables (181); foodstuff (51, 52, 123, 125, 154), indoor air (58), soybean seed (124), cereal (130), substrate and/or habitat are unknown (393)].

A. sydowii (Bainier & Sartory) Thom & Church [**Soil** (115, 119, 120, 141, 249), greenhouse (42), agricultural (138, 153, 156, 246), burnt and normal forest (49), forest (509), vineyard soil (577); **Other**-foodstuff (51, 52, 123, 125, 154), grape (41), bed dust (53), wheat seed (54), seedling root of vegetables (113), cereal (130), outdoor/indoor air (135), drug tablet (265), eye cosmetics (272), cornflakes (296)].

A. tamarii Kita [**Air**-outdoor (425), outdoor/indoor (284), indoor air of high school (462), indoor air of patient home's with allergic alveolitis (463); **Dust** (134), bed (53); **Other**-soil (119, 164), foodstuff (51, 123, 125, 154), wheat seed (54), soybean seed (127), cereal (130), fig (145), leather goods (264), juice of *Citrus* fruits (266), eye cosmetics (272), powdered black pepper (274), powdered red pepper (274), accurate

habitat/substrate is unknown (538)]. Important metabolites (7, 12): Cyclopiazonic acid, fumigaclavines.

A. terreus Thom [**Soil** (6, 47, 48, 56, 99, 112, 114, 117, 119, 120, 139, 141, 143, 144, 158, 162, 191, 228, 249), polluted by cement (45, 283), orchard (136), agricultural (150, 153, 156, 246), greenhouse (42), pistachio soil (118), vineyard soil (577); **Human** (243, 481, 497, 522), skin wound (63), external ear canals with otomycosis (316, 482), ear (372), nail (358), paranasal sinuses (502), *[respiratory specimens (*one of the sputum, bronchoalveolar lavage fluid or tracheal aspiration*), biopsy samples (*nasal, sinus, skin, lung, lymph node or oral cavity lesion*), pus specimens, sinonasal aspiration (*sinus, nasal*), blood culture or bone marrow aspiration]* (564); **Air** (368), *outdoor* (425), outdoor/indoor (135), *indoor* [440, indoor air in the home of asthma patients (447), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall (552)], hospital air (289); **Seed**-wheat (54), hazelnut (140), cereal (130); **Other**-feed stuff (65, 267), red pepper (77), poultry feed (66), seedling root of vegetables (113), apple (169), corn (258), powdered black pepper (274), raw cotton (294, 295), lake water (366), wheat-feed products (516), foodstuff (51, 52, 123, 125, 154), Grape (41), bed dust (53), substrate and/or habitat are unknown (74, 180, 185, 393, 521), tomato (43), dried fig (591)]. Important metabolites (7, 12): Terrein, patulin, citrinin, citreoviridin**,** gliotoxin. ***A. terreus*** var. ***africanus*** Fennell & Raper. [**Soil** (249), agricultural (246)]. ***A. terreus*** var**.** ***aureus*** Thom & Raper [Soil (158, 162)].

A. terricola E. J. Marchal [**Soil** (76, 141, 227), wheat fields (69), greenhouse (42), agricultural (44, 153), corn field (167), polluted by cement (45, 283); cake (109), biscuit (168), haricot bean (355)]. ***A. terricola*** var. ***americana*** Marchal [**Soil** (99, 141, 228, 249), agricultural (138, 153, 156, 246), burnt and normal forest (49), soil polluted by cement (161), vineyard soil (577); **Other**-grape (41), corn kernel (353), outdoor air (556)]. ***A. terricola*** var**.** ***indicus*** (B. S. Mehrotra & Agnihotri) Raper & Fennell [Soil (162)].

A. thomii G. Sm. [**Soil** (47, 48), orchard (136), polluted by cement (308); indoor air (82), foodstuff (125)]. Considered by many taxonomists to be a mutant of ***A. flavus***

A. tonophilus Ohtsuki [Turkish delight (278)]. Teleomorph: ***Eurotium tonophilum*** Ottsuki.

A. tubingensis (Schober) Mosseray [**Soil** (46, 99, 141), agricultural (153, 156), burnt and normal forest (49), vineyard soil (577); **Other**-grape (41), corn kernel (353, 428), raisin (422), substrate and/or habitat are unknown (472), wheat-feed products (516)]. Considered by many taxonomists to be a variety of ***A. niger*****.**

A. unguis (Emile-Weil & L. Gaudin) Thom & Raper [Grape (41), vineyard soil (70, 282)].

Teleomorph**:** ***Emericella unguis*** Malloch & Cain.

A. unilateralis Thrower [Lemon trees (133)].

A. ustus (Bainier) Thom & Church [**Soil** (6, 46, 99, 112, 114, 119, 120, 141, 158, 164, 182, 191, 228, 249), burnt and normal forest (49), orchard (136), agricultural (153, 156), polluted by cement (45, 283), greenhouse (42), vineyard soil (577); **Air** (368), outdoor (425, 556), outdoor/indoor (135); **Human**-skin wound (63), eye (441, 507); **Other**-foodstuff (51, 52, 123, 125, 154), grape (41), wheat seed (54, 350), kashar cheese (107), seedling root of vegetables (113), substrate and/or habitat are unknown (121), cereal (130), lemon trees (133), fig (145), nature or human, accurate habitat/substrate is unknown (457)]. Important metabolites (7, 12): Austamide, austidiol, austins, austocystins.

A. variecolor (Berk. & Broome) Thom & Raper. See ***A. stellifer***

A. versicolor (Vuill.) Tirab. [**Soil** (47, 48, 56, 76, 78, 88, 99, 112, 115, 141, 144, 151, 162, 164, 228, 249), corn field (163), forest (49, 509), agricultural (44, 138, 150, 153, 156, 246), orchard (136), polluted by cement (45, 283), greenhouse (42), tea field (302), environs of thermic power plant (566), vineyard soil (577); **Cheese** (72, 398), kashar (107); **Human** (506, 541), skin wound (63), bronchoalveolar lavage (79, 280), nail (241); **Seed**-wheat (54, 350), rape (131); **Dust** (134), bed (53); **Air** (368), outdoor/indoor (135, 284), indoor (58, 61, 359, 360, outdoor (159, 226, 365, 425, 440, 517, 556), indoor air of patient home's with allergic alveolitis (463), hospital air (289); **Other**: foodstuff (51, 52, 123, 125, 154), grape (41), feed stuff (65, 267), red pepper (77), poultry feed (66, 374), meat products (100), seedling root of vegetables (113), wheat/barley (128), cereal (130), lemon trees (133), pharmaceutical products (142, 183), packaged powder soup (147), olive (148), olive brine (592), hazelnut (166), leather goods (264), drug tablet (265), juice of *Citrus* fruits (266), baby talc powder (271), eye cosmetics (272), powdered red pepper (274), raw cotton (294, 295), cornflakes (296), substrate and/or habitat are unknown (415, 538), nature or human, accurate habitat/substrate is unknown (457), butter (588)]. Important metabolites (7, 12): Sterigmatocystin, nidulotixin.

A. viridinutans Ducker & Thrower [Grape (41), vineyard soil (70, 282)].

A. vitis Novobr. Reported as *A. amstelodami* (L. Mangin) Thom & Churc. [**Dust** (134), bed (53, 278); **Air**-outdoor/indoor (135), outdoor (155); **Other**-foodstuff (51, 52, 123, 125, 154), soil (112, 114, 249), wheat seed (54), leather goods (264, 278), drug tablet (265, 278), surgical strings (273, 278), powdered black pepper (274), powdered red pepper (274), spices (278), turkish delight (278), poultry meat (278), middle meatus of human with chronic rhinosinusitis (549)]. Reported as *A. montevidense* Talice & J. A. Mackinnon. **Air-**[293), indoor (152); **Other**-(Soil (171), turkish delight (278), bark of tree (575)]. Teleomorph: ***Eurotium amstelodami*** L. Mangin [Feed stuff (65), red pepper (77), substrate and/or habitats are unknown (415), black pine forest soil (555)].

A. wentii Wehmer. [**Soil** (6, 46, 56, 99, 112, 114, 119, 141, 144, 162, 164), greenhouse (42), wheat fields (69), corn fields (163, 167), agricultural (150, 153, 156), polluted by meat waste (165), pistachio soil (118), environs of thermic power plant (566); **Air**-indoor (58, 82, 152), outdoor (60, 155, 159, 226, 365, 425, 440, 556), hospital air (289), outdoor air in the environs of thermic power plant (566); **Other**: Foodstuff (51, 52, 123, 125, 154), substrate and/or habitats are unknown (74, 415), feed stuff (65, 267), seedling root of vegetables (113), cereal (130), olive (148), hazelnut (166), biscuit (168), wheat/fodder (347), corn kernel (353), lemon (421), nature or human, accurate habitat/substrate is unknown (457, 538), isolated from *Cyclotrichium* sp. (513), wheat-feed products (516)]. Important metabolites (7, 12): Emodin, wentilacton.

A. zonatus Kwon-Chung & Fennell [Foodstuff (125), eye cosmetics (272)].

Penıcıllıum Lınk: Fr.

[Teleomorphs (292): ***Eupenicillium*** **F. Ludw.**, ***Talaromyces*** **C. R. Benj.]**

P. abeanum G. Sm. See ***P. spinulosum***

P. aculeatum Raper & Fennell [Outdoor air (60), soils of corn field (163)].

P. adametzii K.M. Zalessky [**Soil** (112, 144, 162, 249), wheat fields (69), agricultural (150, 246), orchard (136); seedling root of vegetables (113), foodstuff (125), outdoor/indoor air (284)].

P. adametzioides S. Abe ex G. Sm. [Foodstuff (52), indoor air (82)].

P. aeneum G. Sm. See ***P. citreonigrum***

P. albicans Bainier [Vineyard soil (70)]. (According to Pitt (5) probably ***Scopulariopisis*****)**

P. alicantinum C. Ramirez & A. T. Martinez. See ***P. citreonigrum***

P. allahabadense B.S. Mehrotra & D. Kumar [**Soil** (158), wheat fields (69)]. Reported as *P. zacinthae* C. Ramírez & A.T. Martínez [forest soil or plant samples (596)].

P. alutaceum D. B. Scott [Foodstuff (123, 125)]. Teleomorph**:** ***Eupenicillium alutaceum*** D. B. Scott.

P. anatolicum Stolk [Foodstuff (51, 52, 154), soil (119)]. Teleomorph: ***Eupenicillium anatolicum*** Stolk [**Soil** (93), greenhouse (42), leather goods (264)].

P. asperosporum G. Sm. [Outdoor air (60)].

P. atramentosum Thom [**Soil** (46), polluted by cement (45, 283), **Air** (368), indoor (152)]. Important metabolites (7, 12): Roquefortune C. Secondary metabolites with unknown toxicity (Source: 7): Meleagrin, oxaline, rugulovasine A & B.

P. atrosanguineum B.X. Dong. See ***P. miczynskii***

P. atrovenetum G. Sm. [Outdoor air (60)].

P. aurantiogriseum Dierckx. [**Soil** (249), agricultural (246), greenhouse (42); **Air** (368), indoor (61, 82), hospital air (289); **Seed**-wheat seed (54), rice (477), cracked wheat (477); foodstuff (51, 52, 154), fig (145), olive (148), biscuit (168), kashar cheese (409, 477), chicken feed (412), nature or human, accurate habitat/substrate is unknown (457)]. Important metabolites (7, 12): Nephrotoxic glycopeptides, verrucosidin, Penicillic acid, terrsetric acid. Secondary metabolites with unknown toxicity (7): Aurantiamin, auranthine, anacine. Reported as *P. carneolutescens* G. Sm. [Soil (56)]. Reported as *P. cordubense* C. Ramirez & A. T. Martinez [**Soil** (141, 249), agricultural (156, 246)]. Reported as *P. cyclopium* Westling [**Soil** (88, 164), black pine and oak forest (62), agricultural (150), oak forest (75); **Seed**-wheat (54, 477), rape (131); grape (41, 439), seedling root of vegetables (113), foodstuff (125), cheese (132), lentil and corn (477), chickpea (477); **Air** (293), outdoor/indoor (135); olive (148), apple (169), cornflakes (296)]. Important metabolites (7, 12): Xanthomegnin, viomellein, vioxanthin, penicillic acid. Secondary metabolites with unknown toxicity (7): Cyclopenin, cyclopenol, dehydrocyclopeptin, cyclopeptin, viridicatol, 3-methoxyviridicatin, verrucofortine (= verrucosine), puberuline, rugulosuvine, leucyltryptophanyldiketopiperazine. Reported as *P. martensii* Biourge [Grape (41), soil (112, 114), foodstuff (125)]. Reported as *P. polonicum* Westling [Wheat seed (54)]. Important metabolites (7, 12): Nephrotoxic glycopeptides, penicillic acid. Secondary metabolites with unknown toxicity (7): Cyclopenin, cyclopenol, dehydrocyclopeptin, cyclopeptin, viridicatol, 3-methoxyviridicatin, verrucufortune (=verrucosine), puberuline, rugulosuvine, leucyltryptophanyldiketopiperazine, aspterric acid, anacine, methyl-4-[-(2-(2R)-hydroxyl-3-butynyl-oxy]benzoate, pseurotins, Y-elemene. Reported as *P. puberulum* Bainier [**Soil** (112, 114, 249), greenhouse (42), agricultural (246**)**; **Air**-outdoor (226), indoor (82), outdoor/indoor air (284); foodstuff (51, 52, 123, 154), lake water and outdoor air (83), cereal (130)]. Reported as *P. verrucosum* var. *cyclopium* (Westling) Samson, Stolk & Hadlok [**Soil** (56, 76, 99, 141, 164), burnt and normal forest (49), agricultural (44, 138, 153, 156), polluted by cement (45, 161, 283); **Cheese** (72), kashar (107, 409); **Seed**-wheat (54), soybean (127); **Air**-outdoor (155, 517), indoor (152), indoor air of patient home's with allergic alveolitis (463); bed dust (53), meat products (100), foodstuff (125, 154), pharmaceutical products (142, 183), potato/onion (160), apple (169), leather goods (264), drug tablet (265), baby talc powder (271), surgical strings (273)]. Reported as *P. verrucosum* var. *ochraceum* (Bainier) Samson, Stolk & Hadlok [**Soil** (46), polluted by cement (45, 283)].

P. aureum Corda. See ***P. viridicatum***

P. biforme Thom. See ***P. camembertii***

P. bilaiae Chalab. Reported as *P. bilaii* Chalab. [Foodstuff (51, 52, 154), hospital air (289)].

P. bilaii Chalab. See ***P. bilaiae***

P. botryosum Bat. & H. Maia. See ***P. citrinum***

P. brasilianum Bat. [Agricultural soil (156)].

P. brevicompactum Dierckx. [**Soil** (6, 46, 56, 99, 112, 114, 141, 164, 227, 228, 249), forest (478), polluted by cement (45, 283), agricultural (153, 156), black pine and oak forest (62), burnt and normal forest (49), oak forest (75), environs of thermic power plant (566); **Air** (293, 368), outdoor (60, 155, 159, 275, 365, 425, 440, 476, 517, 556), outdoor/indoor (85, 135, 284), indoor (82, 152, 360), hospital air (289), outdoor air in the environs of thermic power plant (566); **Water**-lake (83, 366), waste (57); **Seed**-rape (131), corn kernel (353), chickpea (477), cracked wheat (477); **Other**: Foodstuff (51, 52, 123, 125, 154), cheese (72, 132, 458), grape (41), bed dust (53), red pepper (77), cereal (130), fig (145), potato/onion (160), pharmaceutical products (183), substrate and/or habitat are unknown (187), leather goods (264), drug tablet (265), baby talc powder (271), cornflakes (296), nature or human, accurate habitat/substrate is unknown (457) (Note: Author wrote species name as *P. brevicatum*)]. Important metabolites (7, 12): Botryodiploidin, mycophenolic acid, brevianamide A, met O. Reported as *P. stoloniferum* Thom [**Soil** (46, 164), polluted by cement (45, 161, 283), agricultural (138); **Air** (293), outdoor/indoor (135), indoor (152), outdoor (517, 556); hazelnut (166), wheat-feed products (516)].

P. brevissimum J. N. Rai & Wadhwani. See ***P. capsulatum***

P. brunneum Udagawa [Soil (158)].

P. camembertii Thom [**Air**-outdoor (60, 155, 159, 425), indoor (284), outdoor/indoor (135); **Waste**-water (57), milk factory (173), chlorination-stage acidic effluents of pulp and paper plant (443, 573); soil (117, 162), foodstuff (51, 123, 125, 154), cheese (72), fig (145), mushroom (172), baby talc powder (271), substrate and/or habitat are unknown (311, 313, haricot bean (355)]. Important metabolites (7, 12): Cyclopiazonic acid. Reported as *P. biforme* Thom [Agricultural soil (150)].

P. canescens Sopp.[**Soil** (6, 76, 89, 99, 112, 114, 117, 119, 139, 141, 144, 162, 227), polluted by cement (45, 283), burnt and normal forest (49), agricultural (138, 150, 153, 156), forest soil or plant samples (596); **Other**: Foodstuff (52), cereal (130), fodder (146), apple (169), drug tablet (265), outdoor air (284, 301, 517, 556), isolated from *Cyclotrichium* sp. (513)]. Reported as *P. yarmokense* Baghd. [**Soil**: agricultural (156), tea field (302); **Air**-Indoor (152), outdoor (517)].

P. capsulatum Raper & Fennell. [Soil (171)]. Reported as *P. brevissimum* J. N. Rai & Wadhwani [Soil (158)].

P. carneolutescens G. Sm. See ***P. aurantiogriseum***

P. casei W. Staub. See ***P. verrucosum***

P. caseicola Bainier [**Soil** (162), vineyard (70); **Air**-outdoor/indoor (135), outdoor (155); cake (109), pharmaceutical products (183)].

P. caseicolum Bain. [Air (293)].

P. castellonense C. Ramirez & A.T. Martinez. See ***P. madriti***

P. charlesii G. Sm. See ***P. fellutanum***

P. chermesinum Biourge. [**Soil** (99, 227, 228), burnt and normal forest (49), polluted by cement (45, 283), agricultural (138), tea field (302); outdoor air (517, 556)]. Reported as *P. indicum* D. K. Sandhu & R. S. Sandhu [Indoor air (152)].

P. chrysogenum Thom [**Soil** (6, 46, 76, 78, 99, 114-117, 119, 120, 141, 158, 161, 164, 227, 228, 249), burnt and normal forest (49), agricultural (44, 153, 246),

polluted by cement (45, 283), polluted by meat waste (165), black pine and oak forest (62), greenhouse (42), tea field (302), forest (509), environs of thermic power plant (566); **Cheese** (72, 132, 398, 458), kashar (107, 477), kuflu-mouldy (493); **Dust** (134), bed (53); **Air** (293, 368), *outdoor* (226, 275, 365, 425), *indoor* (58, 61, 82, indoor air of high school (462), outdoor/indoor (135, 284), indoor air of patient home's with allergic alveolitis (463), library air (501), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall-faculty of science lecture room (552), hospital air (289), outdoor air in the environs of thermic power plant (566); **Seed**-wheat (54, 477), rape (131), corn (258), foodstuff (51, 52, 123, 125, 154), grape (41), lentil and corn (477), chickpea (477), pistachio (477), rice (477), cracked wheat (477); **Human**-skin wound (63), cerebrospinal fluid (297), sputum (542); meat products (100), cereal (130), pharmaceutical products (142), fig (145), potato/onion (160), hazelnut (166), substrate and/or habitat are unknown (185, 309, 538), leather (263), leather goods (264), drug tablet (265), juice of *Citrus* fruits (266), baby talc powder (271), eye cosmetics (272), surgical strings (273), powdered black pepper (274), powdered red pepper (274), raw cotton (294, 295), cornflakes (296), lake water (83, 366)]. *P. chrysogenum* var. *chrysogenum* Thom [Indoor air (440), black pine forest soil (555)]. Important metabolites (7, 12): Roquefortune C, meleagrin, penicilin. Reported as *P.griseoroseum* Dierckx. [**Soil** (112), forest (478); **Air**-outdoor (226), Indoor (61, 82); foodstuff (51, 52, 154), lake water (83), cereal (130), apple (169)]. Reported as *P. notatum* Westling [**Soil** (46, 112, 114, 139, 191), agricultural (138), polluted by cement (161); **Cheese** (132, 398), kashar (107); **Air**-outdoor/indoor (135), indoor (359); foodstuff (51, 52, 154), grape (41), meat products (100), wheat/barley (128), potato/onion (160), raw cotton (294, 295), Substrate and/or habitat are unknown (444, 504, 523), nature or human, accurate habitat/substrate is unknown (457)]. Reported as *P. citreoroseum* Dierckx [Soil (112, 114)].

P. citreonigrum Dierckx [**Soil** (249), forest (478), agricultural (246); cereal (130), **Air** (368), outdoor (425), outdoor/indoor (284)]. Reported as *P. aeneum* G. Sm. [**Soil (**228**)**, burnt and normal forest (49), polluted by cement (45, 283)]. [= *Penicillium citreoviride* var. *aeneum* S. Abe]. Reported as *P. alicantinum* C. Ramirez & A. T. Martinez [**Soil** (171), polluted by cement (45, 283)]. Reported as *P. citreoviride* Biourge [**Air**-outdoor/indoor (135), indoor (152); soil (112, 114), cheese (411)]. Reported as *P. galliacum* C. Ramirez & A. T. Martinez et Berenguer [Foodstuff (52)].

P. citreoroseum Dierckx. See ***P. chrysogenum***

P. citreoviride Biourge. See ***P. citreonigrum***

P. citrinum Thom [**Soil** (6, 47, 48, 99, 115, 116, 119, 120, 141, 151, 158, 227, 228), forest (49, 478), greenhouse (42), wheat fields (69), agricultural (138, 156), tea field (302), black pine forest (555), environs of thermic power plant (566); **Air** (368), *outdoor* (226, 425, 556), *indoor* (82, 440), outdoor/indoor air (284), library air (501), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall-faculty of science lecture room (552), hospital air (289), outdoor air in the environs of thermic power plant (566); **Other**: grape (41), foodstuff (52, 123, 125, 154), human skin wound (63), meat products (100), cereal (130), packaged powder soup (147), nature or human, accurate habitat/substrate is unknown (457, 538), cheese (458), olive brine (592)]. Important metabolites (7, 12): Citrinin. Reported as *P. botryosum* Bat. & H. Maia [**Air** (293), indoor (152), outdoor (517); agricultural soil (156)]. Reported as *P. sartoryi* Thom [**Soil** (46), polluted by cement (45, 283), corn fields (167)].

P. claviforme Bain. See ***P. vulpinum***

P. clavigerum Demelius. [**Soil** (99, 227), forest (49), agricultural (44, 138, 153, 156), Turkish-style black table olives (330)].

P. commune Thom. [**Soil**-agricultural (138, 153, 156), wheat fields (69), black pine forest (555); **Seed-** grape (41), lentil and corn (477), pistachio (477), rice (477), chickpea (477); **Cheese** (411, 458), kuflu-mouldy (493); **Other**: foodstuff (51, 52), outdoor air (60, 425)]. Important metabolites (7, 12): Cyclopiazonic acid, rugulovasine A & B. Secondary metabolites with unknown toxicity (7): Cyclopenin, cyclopenol, dehydrocyclopeptin, cyclopeptin, viridicatol, viridicatin, cyclopaldic and cyclopolic acid. Reported as *P. lanoso-coeruleum* Thom [Grape (41), soil (88)]. Reported as *P. lanosogriseum* Thom [Grape (41)]. Reported as *P. lanosoviride* Thom [Grape (41), soil (88), foodstuff (52)].

P. concentricum Samson, Stolk & Hadlok [Foodstuff (51, 52, 154), wheat/barley (128), potato/onion (160)].

P. coralligerum Nicot & Pionnat [Bed dust (53), indoor air (152), drug tablet (265), juice of *Citrus* fruits (266)].

P. cordubense C. Ramirez & A. T. Martinez. See ***P. aurantiogriseum***

P. corylophilum Dierckx. [**Soil** (46, 227, 249), burnt and normal forest (49), polluted by cement (45, 283), forest (478), agricultural (246), tea field (302), environs of thermic power plant (566); **Seed**-wheat (54), corn kernel (353), chickpea (477), wheat-feed products (516); **Air**-outdoor (284, 556), indoor air of patient home's with allergic alveolitis (463), outdoor air in the environs of thermic power plant (566); **Other**-raw cotton (294, 295), foodstuff (51, 52), bed dust (53), nature or human, accurate habitat/substrate is unknown (457), leather goods (264), drug tablet (265), baby talc powder (271), powdered red pepper (274)]. Reported as *P. humuli* J. F. H. Beyma [**Soil**-greenhouse (42), agricultural (44), polluted by cement (45, 283); **Air**-indoor (360), outdoor (365, 425, 556)].

P. corymbiferum Westling. See ***P. hirsutum***

P. crateriforme J.C. Gilman & L.V. Abbott [Soils of wheat field (69)].

P. crustosum Thom [**Air**-outdoor (226, 301, 425), indoor (61, 82), outdoor/indoor (284), hospital air (289); **Soil** (249), forest (49), agricultural (246); **Other**: Foodstuff (51, 52), grape (41), wheat seed (54), wheat/fodder (347), corn kernel (353), cheese (398, 458-authors wrote as *P. crustom*!), wheat-feed products (516), substrate and/or habitat are unknown (548), olive brine (592)]. Important metabolites (7, 12): Penitrem A-F, terrestric acid, roquefortune C. Secondary metabolites of unknown toxicity (7): Cyclopenin, cyclopenol, dehydrocyclopeptin, cyclopeptin, viridicatol, viridicatin, styrene, 2-methylisoborneol, geosmin, dimethyl-disulphide. Reported as *P. farinosum* Novobranova [**Soil** (56), agricultural (153); **Air**-indoor (85, 360), outdoor (365, 556)]. Reported as *P. terrestre* Jensen [Grape (41), foodstuff (125)].

P. cyaneum (Bainier & Sartory) Biourge. [**Soil** (191), polluted by meat waste (165), tea field (302); foodstuff (51, 52, 154), hazelnut (166), **Air**-indoor (152), outdoor air (556)].

P. cyclopium Westling. See ***P. aurantiogriseum***

P. cyclopium var*. echinulatum* Raper & Thom. See ***P. echinulatum***

P. decumbens Thom [**Soil** (6, 47, 48, 56, 76, 78, 99, 112, 114, 117, 119, 141, 151, 158, 228, 249), wheat fields (69), greenhouse (42), burnt and normal forest (49), agricultural (138, 153, 156, 246), forest (478), tea field (302), polluted by cement (308), black pine forest (555), environs of thermic power plant (566); **Air**-outdoor (226, 425), indoor (284), outdoor air in the environs of thermic power plant (566); **Other**-foodstuff (51, 52, 123, 125, 154), potato/onion (160), moss (*Musci*) (290), nature or human, accurate habitat/substrate is unknown (457, 548)].

P. dierckxii Biourge. Reported as *P. gerundense* C. Ramirez & A. T. Martinez [Soils of corn field (163)].

P. digitatum (Pers.: Fr.) Sacc. [**Air** (368), indoor (82), outdoor/indoor (135), outdoor (440), indoor air of patient home's with allergic alveolitis (463), library air (501), hospital air (289); ***Citrus* fruits** (90-92, 175, 177), satsuma mandarins (404), lemon+ grapefruit+tangerine+orange+quince+pomegranate+apple+strawberry (81), lemon (406, 410); **Other**-foodstuff (51, 52, 125, 154), substrate and/or habitat are unknown (59, 108, 446, 460-obtained from Ege Univ Department of Plant Protection, 572), grape (41), bed dust (53), olive (148), soil (171, 405), nature or human, accurate habitat/substrate is unknown (457), pumice stone? (550)]. Important metabolites (7, 12): Tryptoquivalins.

P. diversum Raper & Fennell [**Soil** (99, 112, 114, 227, 228), burnt and normal forest (49), agricultural (156); foodstuff (52), hazelnut (166)].

P. diversum var*. aereum* Raper & Fennell. See ***P. primulinum***

P. donkii Stolk [Soil (74, 151, 158), outdoor/indoor air (284)].

P. duclauxii Delacr. [**Soil** (48), orchard (136); outdoor air (60, 425), tomato (43), cake (109), biscuit (168)].

P. echinulatum Raper & Thom ex Fassat. [**Soil** (46), polluted by cement (45, 283), agricultural (156); **Dust** (134), bed (53); **Air** (368), outdoor (425), indoor (58); **Other**: Foodstuff (51, 52, 123, 125, 154), cheese (72, 458), grape (41), cereal (130), packaged powder soup (147), olive (148), apple (169), leather goods (264), drug tablet (265), baby talc powder (271), surgical strings (273), accurate habitat/substrate is unknown (538)]. Important metabolites (7, 12): Territrems. Reported as *P. cyclopium* var. *echinulatum* Raper & Thom. [Indoor air (61)]. [*Penicillium echinulatum* E. Dale in Biourge = ***Penicillium janczewkii*** K. M. Zaleskky].

P. ehrlichii Kleb. See ***P. klebahnii***

P. estinogenum A. Komatsu & S. Abe ex G. Sm. [Soils of wheat fields (69), outdoor air (60, 159)].

P. expansum Link. [**Soil** (46, 76, 78, 99, 141, 164, 227, 228, 249, 571), greenhouse (42), black pine and oak forest (62), burnt and normal forest (49), agricultural (138, 153, 156, 246), polluted by cement (45, 161, 283), black pine forest (555); **Air-** (293, 368), indoor (82, 85), outdoor (275, 425, 440, 556), hospital air (289); **Cheese** (411, 458), kashar (107), kuflu-mouldy (493); **Seed**-soybean (127), wheat/barley (128), corn kernel (353), wheat/fodder (347), wheat-feed products (516); **Fruit & Vegetable**-potato/onion (160), pear (174, 408), cherry (312), sweet cherry (570), Turkish-style black table olives (330), apple (407); **Other**-lake water (83), meat products (100), pharmaceutical products (183), substrate and/or habitat are unknown (189), leather goods (264), drug tablet (265), surgical strings (273), foodstuff (51, 52, 123, 125, 154), bed dust (53)]. **Important metabolites** (7, 12): Roquefortune C, patulin, citrinin, communesins, chaetoglobosin C. Reported as *P. resticulosum* Birkinshaw, Raistrick & G. Sm. [Grape (41), olive (148), water of dental unit (291)].

P. fagi C. Ramirez & A. T. Martinez. See ***P. raciborskii***

P. farinosum Novobranova. See ***P. crustosum***

P. fellutanum Biourge. [**Soil** (47, 48, 112, 114, 151), agricultural (138); **Air** (368), outdoor/indoor (135), hospital air (289); cereal (130), cheese (411), nature or human, accurate habitat/substrate is unknown (457)]. Reported as *P. charlesii* G. Sm. [**Soil** (99), agricultural (138, 153); **Air**-indoor (360), outdoor (365, 517)]; hazelnut (166), wheat-feed products (516).

P. fennelliae Stolk [Forest soil (49)].

P. frequentans Westling. See ***P. glabrum***

P. funiculosum Thom [**Soil** (6, 47, 48, 56, 112, 114-116, 119, 120, 139, 151, 158, 162, 171, 191, 249), corn fields (163, 167), greenhouse (42), agricultural (44, 150, 246), orchard (136), polluted by cement (308); **Air**-*outdoor* (60, 159, 425), *indoor* (58,

61, 440), outdoor/indoor (135), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall (552); **Dust** (134), bed (53); foodstuff (51, 123, 154), grape (41), potato/onion (160), leather (263), leather goods (264), drug tablet (265), juice of *Citrus* fruits (266), baby talc powder (271), eye cosmetics (272), surgical strings (273), powdered red pepper (274), substrate and/or habitat are unknown (442), wheat-feed products (516)].

P. fuscum (Sopp) Raper & Thom [Soil (56, 88, 144), outdoor air (155)].

P. galliacum C. Ramirez & A. T. Martinez et Berenguer. See ***P. citreonigrum***

P. gerundense C. Ramirez & A. T. Martinez. See ***P. dierckxii***

P. giganteum R. Y. Roy & G. N. Singh. See ***P. megasporum***

P. glabrum (Wehmer) Westling. [**Soil**: forest (49), polluted by cement (308), black pine forest (555), environs of thermic power plant (566); **Air** (368), outdoor/indoor (284), indoor (440), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall-faculty of science lecture room (552), outdoor air in the environs of thermic power plant (566); **Other**-foodstuff (51, 52, 154), lake water (83), olive (148), nature or human, accurate habitat/substrate is unknown (457)]. Important metabolites (7, 12): Citromycetin. Reported as *P. frequentans* Westling [**Soil** (46, 116, 117, 119, 141, 144, 158, 162, 164**,** 227, 228), black pine and oak forest (62), oak forest (75), polluted by cement (45, 161, 283), orchard (136), agricultural (138, 150, 153, 156), tea field (302), forest soil or plant samples (596); **Dust** (134), bed (53); foodstuff (51, 52, 123, 125, 154), cheese (72), grape (41), substrate and/or habitat are unknown (74), tomato/tomato paste (43), wheat/barley (128), rape seed (131), outdoor/indoor (135), pharmaceutical products (142, 183), potato/onion (160), leather (263), leather goods (264), juice of *Citrus* fruits (266), baby talc powder (271), eye cosmetics (272), surgical strings (273), powdered black pepper (274), powdered red pepper (274); **Air** (293), outdoor (275), indoor air of patient home's with allergic alveolitis (463); haricot bean (355)].

P. gladioli Machacek. See ***P. gladioli***

P. gladioli L. McCulloch & Thom. Reported as *P. gladioli* Machacek [**Dust** (134), bed (53); **Soil** (47, 48), polluted by cement (308); outdoor/indoor air (135), drug tablet (265)]. Reported as *P. rolfsii* var. *sclerotiale* Novobr. [Soil (48, 151)]. Teleomorph: ***Eupenicillium crustaceum*** F. Ludw. [Lake water (366)].

P. glandicola (Oudem.) Seifert & Samson. [Forest soil (509), hospital air (289)]. Reported as *P. granulatum* Bain. [**Soil** (249), agricultural (150, 246); **Air**-outdoor (425, 556), outdoor/indoor air (135, 284), hospital air (289); foodstuff (51, 52, 125, 154), grape (41), olive (148), apple (169)].

P. glaucum Link. [Cream cake (498)]. See ***Penicillium expansum***)

P. godlewskii K. M. Zalessky. See ***P. jensenii***

P. gracilentum Udagawa & Y. Horie [Foodstuff (123, 125)]. Teleomorph: ***Eupenicillium gracilentum*** Udagawa & Y. Horie.

P. granulatum Bain. See ***P. glandicola***

P. griseo-azureum C. Moreau & V. Moreau. See ***P. waksmanii***

P. griseofulvum Dierckx. [**Soil** (164, 171, 249), agricultural (138, 246); **Dust** (134), bed (53); **Air** (368), indoor (82), outdoor/indoor (135, 284), outdoor (226, 425), hospital air (289); **Other**-foodstuff (51, 52, 123, 125, 154), red pepper (77), wheat seed (54), meat products (100), cereal (130), pharmaceutical products (142), hazelnut (166), leather goods (264), drug tablet (265), baby talc powder (271), powdered red pepper (274), accurate habitat/substrate is unknown (538)]. Important metabolites (7, 12): Roquefortune C, cyclopiazonic acid, patulin, griseofulvin. Reported as *P. patulum* Bainier [Seedling root of vegetables (113), rape seed (131), soil (182), substrate and/or habitat

are unknown (393)]. Reported as *P. urticae* Bainier [Foodstuff (125), outdoor air (155), apple (169)].

P. griseoroseum Dierckx. See ***P. chrysogenum***

P. griseum (Sopp) Biourge. See ***P. restrictum***

P. herquei Bainier & Sartory [**Soil** (56, 99, 141), forest (55), agricultural (138, 153), corn fields (163), vineyard soil (577); **Air**-outdoor/indoor (135, 284), hospital air (289); **Other**-tomato/tomato paste (43), foodstuff (125), mushroom (172), substrate and/or habitat are unknown (285), cornflakes (296)].

P. hirsutum Dierckx. [Foodstuff (51, 52, 154), wheat seed (54, 477), apple (169), kashar cheese (477); **Air** (368), outdoor/indoor (284), nature or human, accurate habitat/substrate is unknown (457), note: Author wrote species name as *P. hirsitum*]. Important metabolites (7, 12): Roquefortune C, terrestric acid. Reported as *P. corymbiferum* Westling [Grape (41), foodstuff (125), soil (56, 144)]. Reported as *P. verrucosum var. corymbiferum* (Westling) Samson, Stolk & Hadlok [**Soil** (6), polluted by cement (45, 283); **Air**-indoor air of patient home's with allergic alveolitis (463), outdoor (556); bed dust (53), foodstuff (123, 154), wheat/barley (128), potato/onion (160), leather goods (264), drug tablet (265), baby talc powder (271)].

P. hispanicum C. Ramirez, A. T. Martinez & Ferrer. See ***P. implicatum***

P. humuli J. F. H. Beyma. See ***P. corylophilum***

P. ilerdanum C. Ramirez, A. T. Martinez & Berer*. See* ***P. piceum***

P. implicatum Biourge. [**Soil** (6, 115-117, 164, 249), polluted by cement (45, 283), agricultural (246); foodstuff (51, 52, 123, 125, 154), **Air**-indoor (82), outdoor (284), olive (148)]. Reported as *P. hispanicum* C. Ramirez, A. T. Martinez & Ferrer [Outdoor air (155)].

P. indicum D. K. Sandhu & R. S. Sandhu. See ***P. chermesinum***

P. indonesiae Pitt. Reported as *P. javanicum* J. F. H. Beyma [Soil (112), foodstuff (125)]. Nom. Holomorph: ***Eupenicillium javanicum*** (J. F. H. Beyma) Stolk & D. B. Scoot. [Surgical strings (273)].

P. intermedium Stolk & Samson. See ***Talaromyces intermedius***

P. isariforme Stolk & J. A. Mey [Greenhouse soil (42)].

P. islandicum Sopp. [**Soil** (249), agricultural (44), polluted by cement (45, 283), agricultural (246); grape (41), foodstuff (52), cake (109), cereal (130), **Air**-indoor (152), outdoor/indoor (284); biscuit (168)].

P. italicum Wehmer. [**Soil** (120), greenhouse (42); **Air** (368)**,** outdoor (155, 425), outdoor/indoor (135), *indoor* (440), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall-faculty of science lecture room (552), hospital air (289); *Citrus* fruits (90-92, 175, 177, 450), strawberry+quince+pomegranate+lemon+orange+grapefruit+tangerine (81), lemon (352, 406, 410); **Other**-foodstuff (51, 52, 123, 125, 154), substrate and/or habitat are unknown (59, 446, 460 is obtained from Ege Univ Department of Plant Protect, 538, 551), bed dust (53), cereal (130), corn kernel (353)]. Reported as *P. italicum* var. *avellaneum* Samson & Y. Gutter [Outdoor air (155)]. Reported as ***P. italicum*** var**. *italicum*** Wehmer [**Soil** (46-48, 99, 228), burnt and normal forest (49), polluted by cement (45, 283), agricultural (153, 156); **Air**-indoor (152), outdoor (556)].

P. italicum var. *avellaneum* Samson & Y. Gutter. See ***P. italicum***

P. janczewskii K. M. Zalessky. [**Soil**-greenhouse (42), forest (55); **Air** (368), indoor (61); cereal (130)]. Reported as *P. nigricans* Bainier in Thom [**Soil** (76, 78, 139, 141, 162, 164, 228), oak forest (75), black pine and oak forest (62), orchard (136), agricultural (138, 150), tea field (302); foodstuff (52), human skin wound (63), meat products (100), potato/onion (160), hazelnut (166), apple (169)].

P. janthinellum Biourge [**Soil** (46, 99, 112, 114-117, 119, 141, 158, 164, 228, 249), burnt and normal forest (49), agricultural (44, 138, 150, 153, 156), polluted by cement (45, 283), greenhouse (42), forest (478), orchard (136), polluted by meat waste (165); **Air** (368), outdoor (365, 425, 556); foodstuff (51, 52, 125, 154), human skin wound (63), baby talc powder (271), moss (*Musci*) (290)].

P. javanicum J. F. H. Beyma See ***P. indonesiae***

P. jensenii K. M. Zalessky. [**Soil** (99, 141, 144, 227, 228), agricultural (138, 150, 153, 156), burnt and normal forest (49), polluted by cement (45, 283), forest (478), black pine forest (555); **Air**-outdoor (60, 365, 556), indoor (61, 360); foodstuff (51, 52, 154)]. Reported as *P. godlewskii* K. M. Zalessky [**Soil** (162), agricultural (44); hazelnut (166), outdoor air (556)].

P. klebahnii Pitt. Reported as *P. ehrlichii* Kleb. [Outdoor air (155)]. Teleomorph: ***Eupenicillium ehrlichii*** (Kleb.) Stolk & D. B. Scoot.

P. kloeckeri Pitt. Reported as *P. wortmannii* Klocker [Soil (162), nature or human, accurate habitat/substrate is unknown (457)]. Nom. Holomorph: ***Talaromyces wortmanni*** (Klocker) C. R. Benj.].

P. kojigenum G. Sm. See ***P. lanosum***

P. kurssanovii Chalab. See ***P. restrictum***

P. lanosum Westling [**Soil** (76, 99, 144, 158, 162, 227, 228), burnt and normal forest (49), wheat fields (69), agricultural (138, 153, 156), corn field (163); **Air**-outdoor (60, 155, 159, 440), outdoor/indoor (135), indoor (152); **Other**: Grape (41), cake (109), foodstuff (154), hazelnut (166), biscuit (168), apple (169), isolated from *Cyclotrichium* sp. (513)]. Reported as *P. kojigenum* G. Sm. [**Soil** (46), polluted by cement (45, 283)].

P. lanoso-coeruleum Thom. See ***P. commune***

P. lanosogriseum Thom. See ***P. commune***

P. lanosoviride Thom. See ***P. commune***

P. lapidosum Raper & Fennell [Soil (115), outdoor air (425)]. Teleomorph: ***Eupenicillium lapidosum*** D. B. Scott & Stolk.

P. lilacinum Thom. See ***Paecilomces lilacinus***

P. lividum Westling [Foodstuff (51, 52, 125, 154), cereal (130), **Air** (368), outdoor/indoor (135), hospital air (289; surgical strings (273)]. Reported as *P. trzebinskianum* S. Abe [Foodstuff (52), tea field (302)]. *P. odoratum* M. Chr. & Backus. [isolated from *Cyclotrichium* sp. (513)].

P. loliense Pitt [Indoor air (61)].

P. luteo-aurantium G. Sm. See ***P. resedanum***

P. luteum Zukal See ***Talaromyces luteus***

P. madriti G. Sm. [**Soil** (99, 249), forest (49), agricultural (153, 246)]. Reported as *P. castellonense* C. Ramirez & A.T. Martinez [Soil (228), outdoor air (517)].

P. mali Gorlenko & Novobr. See ***P. solitum***

P. manginii Duche & R. Heim. [Bed dust (53), cheese (398)].

P. marneffei Segretain [Outdoor air (425), human lung (461), Substrate and/or habitat are unknown (499)].

P. martensii Biourge. See ***P. aurantiogriseum***

P. megasporum Orpurt & Fennell. [**Soil** (162), agricultural (44); foodstuff (51, 52, 154)]. Reported as *P. giganteum* R. Y. Roy & G. N. Singh [Indoor air (152)].

P. melinii Thom [**Air**-indoor (61, 284), outdoor (425), outdoor air in the environs of thermic power plant (566); **Soil**-forest (478, 509), outdoor air in the environs of thermic power plant (566)].

P. miczynskii K. M. Zalessky [**Soil** (47, 48, 141, 151, 158), burnt forest (49), polluted by cement (45), agricultural (138, 156), environs of thermic power plant (566);

Air (368), indoor (82), outdoor/indoor (284), outdoor (425), outdoor air in the environs of thermic power plant (566); **Other**-lake water (83), foodstuff (51, 52, 154), cereal (130), olive (148), apple (169)]. Reported as *P. atrosanguineum* B.X. Dong [Agricultural soil (44), outdoor air (556)].

P. minioluteum Dierckx [cereal (130)].

P. mirabile Beliakova & Milko [Soil (47, 48, 151)].

P. moldavicum Milko & Beliakova [Soil (141)].

P. montanense M. Chr. & Backus [**Soil** (56, 162), forest (478), agricultural (150)].

P. multicolor Grig.-Man. & Porad. See ***P. sclerotiorum***

P. nalgiovense Laxa [**Dust** (134), bed (53); foodstuff (51, 52, 123, 125, 154), cereal (130), **Air**-outdoor/indoor (135), indoor air of high school (462; authors wrote as "P. nalgiovence"), indoor air of patient home's with allergic alveolitis (463); soil (143, 171), apple (169), drug tablet (265), baby talc powder (271), surgical strings (273), wheat-feed products (516)].

P. nigricans Bainier in Thom. See ***P. janczewskii***

P. notatum Westling. See ***P. chrysogenum***

P. novae-zeelandiae J. F. H. Beyma [**Soil** (249), agricultural (246)].

P. ochraceum Bainier in Thom. See ***P. viridicatum***

P. ochrochloron Biourge [**Soil** (144), forest (478), environs of thermic power plant (566); **Air**-outdoor (284), outdoor air in the environs of thermic power plant (566); **Other**-apple (169),].

P. odoratum M. Chr. & Backus. See ***P. lividum*** Westling.

P. oligosporum Saito & Minoura. See ***Eupenicillium javanicum***

P. olsonii Bainier & Sartory [**Soil** (99, 141, 228), burnt and normal forest (49), polluted by cement (45, 161, 283), wheat fields (69), agricultural (153); **Air**-outdoor (60), hospital air (289); foodstuff (51, 52, 154), cake (109), biscuit (168)]. Important metabolites (7, 12): Verrucolone, 2-(4-hydroxyphenyl)-2-oxoacetaldehydeoxime, bis(2-ethylhexyl)phthalate.

P. oxalicum Currie & Thom [**Soil** (117, 158, 191), agricultural (44), polluted by cement (45, 283), orchard (136), environs of thermic power plant (566); **Air** (293), indoor (82, 152), outdoor/indoor (284), outdoor (425), outdoor air in the environs of thermic power plant (566); **Other**-foodstuff (51, 52, 125, 154), grape (41), corn kernel (353, 428), cheese (411), wheat-feed products (516)]. Important metabolites (7, 12): Secalonic acid D & F, roquefortune C. Secondary metabolites with unknown toxicity (7): Meleagrin, oxaline, anthglutin, oxalicine, oxalic acid.

P. palitans Westling [Foodstuff (125), apple (169)]. Important metabolites (7, 12): Cyclopiazonic acid, fumigaclavine A & B. Socondary metabolites with unknown toxicity (7): Cyclopenin, cyclopenol, dehydrocyclopeptin, cyclopeptin, viridicatol, viridicatin, palitantin.

P. pallidum G. Sm. See ***Geosmithia putterillii***

Geosmithia putterillii (Thom) Pitt. Reported as *P. pallidum* G. Sm. [Foodstuff (125)].

P. paneum Frisvad [Soils of wheat field (69)]. Important metabolites (7, 12): Patulin, roquefortune C, botryodiploidin. Secondary metabolites with unkonwn toxicity (7): Marcfortines A, B and C.

P. paraherquei S. Abe ex G. Sm. [**Dust** (134), bed (53); foodstuff (51, 52, 123, 125, 154), **Air**-outdoor/indoor (135), indoor air of patient home's with allergic alveolitis (463); pharmaceutical products (142), packaged powder soup (147), apple (169), leather (263), leather goods (264), drug tablet (265), juice of *Citrus* fruits (266), baby talc powder (271), surgical strings (273)].

P. patulum Bainier. See ***P. griseofulvum***

P. paxilli Bainier [**Air**-outdoor (425, 556), outdoor/indoor air (85), outdoor air in the environs of thermic power plant (566); **Soil**-forest soil (478), environs of thermic power plant (566); **Other**-grape (41), cereal (130), potato/onion (160), mushroom (172)].

P. pedemontanum Mosca & A. Fontana [Waste water (57)].

P. phialosporum Udagawa See: ***Penicillium rugulosum*** Thom.

P. phoeniceum J. F. H. Beyma. Indoor air (61). Reported as *P. pusillum* G. Sm. [Agricultural soil (150)]. Teleomorph: ***Eupenicillium cinnamopurpureum*** D. B. Scott & Stolk].

P. piceum Raper & Fennell. [**Seed**: rape (131), haricot bean (355); soils of wheat fields (69), **Air**-outdoor (60), indoor (440); foodstuff (125)]. Reported as *P. ilerdanum* C. Ramirez, A. T. Martinez & Berer [Agricultural soil (156)].

P. pinetorum M. Chr. & Backus [**Soil** (119), greenhouse (42), agricultural (44)]. Teleomorph: ***Eupenicillium pinetorum*** Stolk

P. pinophilum Hedgc. [Foodstuff (52)].

P. piscarium Westling [**Soil** (119), agricultural (138)].

P. polonicum Westling. See ***P. aurantiogriseum***

P. primulinum Pitt [Soil (249)]. Reported as *P. diversum* var. *aereum* Raper & Fennell [Burnt and normal forest soil (49)].

P. psittacinum Thom. See ***P. viridicatum***

P. puberulum Bainier. See ***P. aurantiogriseum***

P. pulvillorum Turfitt [Soil (47, 48)].

P. purpurescens (Sopp) Biourge. [**Soil** (112, 114, 164), greenhouse (42), forest (55); foodstuff (125), **Air** (368), outdoor (284)].

P. purpureum Stolk & Samson [Substrate and/or habitat are unknown (149), drug tablet (265), surgical strings (273)]. Teleomorph: ***Talaromyces purpureus*** (E. Mull. & Pacha-Aue) Stolk & Samson.

P. purpurogenum Stoll. [**Soil** (6, 46, 112, 116, 119, 143, 162, 191, 249), burnt and normal forest (49), polluted by cement (45, 283), polluted by meat waste (165), forest (478), agricultural (246), black pine forest (555), environs of thermic power plant (566), forest soil or plant samples (596); **Air** (368), *outdoor* (155, 425), *indoor* (440), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall-faculty of science lecture room (552), outdoor air in the environs of thermic power plant (566), **Other**- substrate and/or habitat are unknown (68, 74, 514), foodstuff (52, 125), human skin wound (63),]. Reported as *P. rubrum* Stoll [**Soil** (47, 48, 143, 151, 228), greenhouse (42), orchard (136), soils of corn field (167), tea field (302); grape (41), substrate and/or habitat are unknown (74, 418), fodder (146), **Air** (293), indoor (152)].

P. pusillum G. Sm. See ***P. phoeniceum***

P. putterillii Thom [Grape (41), vineyard soil (70)].

P. raciborskii K. M. Zalessky. [**Soil** (227), greenhouse (42); bed dust (53), drug tablet (265)]. Reported as *P. fagi* C. Ramirez & A. T. Martinez [**Soil** (46, 119), agricultural (156), polluted by cement (45, 283); outdoor air (517, 556)].

P. raistrickii G. Sm. [Foodstuff (52, 123, 125), soil (47, 48, 112, 114, 119, 151), hospital air (289)].

P. ramusculum Bat. & H. Maia. See ***P. sublateritium***

P. resedanum McLennan & Ducker. [Burnt and normal forest soil (49)]. Reported as *P. luteo-aurantium* G. Sm. [Soil (47, 48, 151), outdoor air (155)].

P. resticulosum Birkinshaw, Raistrick & G. Sm. See ***P. expansum***

P. restrictum J. C. Gilman & E. V. Abbott. [**Soil** (6, 46, 76, 78, 112, 114, 119, 120, 141, 144), greenhouse (42), burnt and normal forest (49), forest (478), wheat fields (69), agricultural (138, 150, 246), polluted by cement (161), corn fields (163, 167), polluted by meat waste (165), environs of thermic power plant (566); **Air** (368), indoor (61), outdoor (159), outdoor air in the environs of thermic power plant (566); **Other**-seedling root of vegetables (113), mushroom (172), nature or human, accurate habitat/substrate is unknown (457, 535)]. Reported as *P. kurssanovii* Chalab. [Soil (56, 119)]. Reported as *P. griseum* (Sopp) Biourge. [**Air (**293**)**, indoor (152), outdoor (159); **Soil** (249), agricultural soil (44)].

P. rolfsii Thom [Soil (47, 158), human skin wound (63)].

P. rolfsii var. *sclerotiale* Novobr. See ***P. gladioli***

P. roquefortii Thom [**Soil** (46, 99), burnt and normal forest (49), polluted by cement (45, 161, 283), agricultural (138, 153, 156); foodstuff (51, 52, 123, 125, 154), **Cheese** (72, 132, 398, 411, 458), tulum (110, 299), kashar (107, 409), kuflu-mouldy cheese (493), Danish blue cheese (563); **Air**-outdoor/indoor (135), outdoor (284, 425, 556), hospital air (289); **Other**-fig (145), potato/onion (160), apple (169), waste of milk factory (173), meat products (100), food (590), accurate habitat/substrate is unknown (474, 510, 538, 558)]. Important metabolites (7, 12): Roquefortune C, isofumigaclavine A & B, PR-toxin, mycophenolic acid.

P. roseopurpureum Dierckx [Tomato (43), soil (56, 114), air (368)].

P. rubidurum Udagawa & Y. Horie [Foodstuff (51, 52, 123, 125, 154)].
Teleomorph: *Eupenicillium rubidurum* Udagawa & Y. Horie.

P. rubrum Stoll. See ***P. purpurogenum***

P. rugulosum Thom [**Soil** (6, 56, 112, 114, 249), wheat fields (69), agricultural (138, 246), forest (509); **Air**-outdoor (159), outdoor/indoor (135), indoor air of patient home's with allergic alveolitis (463); foodstuff (51, 52, 123, 125, 154), bed dust (53), cereal (130), packaged powder soup (147), hazelnut (166), apple (169), drug tablet (265), baby talc powder (271), eye cosmetics (272)]. Important metabolites (7, 12): Rugulosin. Reported as *Penicillium phialosporum* [Tea field soil (302)].

P. sartoryi Thom. See ***P. citrinum***

P. sclerotiorum J. F. H. Beyma [Fig (145), soil (158)]. Reported as *P. multicolor* Grig.-Man. & Porad. [**Soil** (99, 119, 158, 162, 228, 249), burnt and normal forest (49), agricultural (138); **Air**-indoor (152), outdoor (556); isolated from *Cyclotrichium* sp. (513)].

P. simplicissimum (Oudem.) Thom [**Soil** (46, 99, 119, 164, 171, 228), black pine and oak forest (62), burnt and normal forest (49), oak forest (75), polluted by cement (45, 283), forest (478), agricultural (138, 150, 153, 156), black pine forest (555), environs of thermic power plant (566); **Air**-outdoor (275, 301, 556), outdoor/indoor (284), outdoor air in the environs of thermic power plant (566); **Other**-grape (41), foodstuff (52, 125), wheat/barley (128), cereal (130), olive (148), potato/onion (160), pseudoscorpion (544), nature or human, accurate habitat/substrate is unknown (457)].

P. solitum Westling. [Grape (41), wheat seed (54), outdoor air (155), cheese (458)]. Important metabolites (7, 12): Cyclopenin, cyclopenol, dehydrocyclopeptin, viridicatol, viridicatin, compactin, dehydrocompactin, solistatin. Reported as *P. mali* Gorlenko & Novobr. [Indoor air (152), agricultural soil (156)]. Reported as *P. verrucosum* var. *melanochlorum* Samson, Stolk & Hadlok [**Dust** (134), bed (53); **Air**-Indoor air of patient home's with allergic alveolitis (463), outdoor (517, 556); foodstuff (123, 125, 154), cereal (130), pharmaceutical products (142), soil polluted by cement (161), leather goods (264), drug tablet (265), baby talc powder (271), powdered red pepper (274)].

P. soppi K. M. Zalessky [**Soil** (158), polluted by cement (308)].

P. spinulosum Thom. [**Soil** (164), burnt and normal forest soil (49), agricultural (138), black pine forest (555), forest soil or plant samples (596); **Air**-outdoor (425, 556), outdoor/indoor air (135); foodstuff (51, 52, 123, 125), substrate and/or habitat are unknown (111), cereal (130), hazelnut (166), biscuit (168), cheese (458)]. Reported as *P. abeanum* G. Sm. [Soil (56)].

P. steckii K. M. Zalessky [**Soil** (71, 88, 89, 99, 158, 227, 228), burnt and normal forest (49), agricultural (138, 153, 156), corn fields (163), tea field (302); foodstuff (51, 52, 125, 154), grape (41), fodder (146), olive (148), moss (*Musci*) (290), outdoor air (517, 556)].

P. stoloniferum Thom. See ***P. brevicompactum***

P. striatisporum Stolk [**Soil** (112), corn fields (163)].

P. sublateritium Biourge. [**Soil** (89, 227), forest (49); foodstuff (51, 52, 154)]. Reported as *P. ramusculum* Bat. & H. Maia [Soil (47, 48, 151)].

P. tardum Thom [**Soil** (164), corn fields (167); outdoor air (60, 155)].

P. terlikowskii K. M. Zalessky [Orchard soil (136)].

P. terrestre Jensen. See ***P. crustosum***

P. thomii Maire [**Soil** (119, 151, 158), greenhouse (42); foodstuff (51, 52, 123, 125, 154), cereal (130), indoor air (152)]. Reported as *P. valentinum* C. Ramírez & A.T. Martínez [Soil (249)].

P. trzebinskianum S. Abe. See. ***Penicillium lividum*** Westling.

P. turbatum Westling [**Soil**: Agricultural (150), polluted by cement (308); corn kernel (353)].

P. urticae Bainier. See ***P. griseofulvum***

P. valentinum C. Ramírez & A.T. Martínez. See ***P. thomii***

P. variabile Sopp. [**Soil** (48, 76, 99, 151, 191, 227, 249), burnt and normal forest (49), forest (478), greenhouse (42), agricultural (138, 150, 153, 246); **Dust** (134), bed (53); foodstuff (51, 52, 123, 125), human skin wound (63), kashar cheese (107), cereal (130), **Air** (368), outdoor/indoor (135), outdoor (425), indoor air of patient home's with allergic alveolitis (463, authors wrote as *P. variable*); leather goods (264), drug tablet (265), juice of *Citrus* fruits (266), baby talc powder (271), eye cosmetics (272), surgical strings (273), powdered red pepper (274)]. Important metabolites (7, 12): Rugulosin.

P. varians G. Sm. [**Soil** (47, 48), vineyard (70); grape (41)].

P. velutinum J. F. H. Beyma [**Soil** (46, 141, 162), greenhouse (42), agricultural (44, 138), polluted by cement (45, 283), wheat fields (69), orchard (136); outdoor air (60)].

P. verrucosum Dierckx. [**Air**-outdoor (155, 226), indoor (58, 440), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of medicine dining hall-faculty of science lecture room (552), hospital air (289); **Soil** (249), agricultural (246), greenhouse (42, 119), forest (509); **Cheese** (458), kuflu-mouldy (493); **Other**: Foodstuff (51, 123, 125, 154), lake water (83), wheat seed (54), packaged powder soup (147), hazelnut (166), apple (169), leather (263), bark of tree (575), accurate habitat/substrate is unknown (538)]. Important metabolites (7, 12): Ochratoxin A, citrinin. Secondary metabolites with unknown toxicity (7): Verrucolone (= arabenoic acid) and verrucines. Reported as *P. casei* W. Staub [Soil (162**)**]. ***P. verrucosum*** var. ***album*****.** (Westling) Samson, Stolk & Hadlok [Indoor air (152)] Reported as *P. verrucosum* var. *verrucosum* Samson, Stolk & Hadlok [**Soil** (6), black pine and oak forest (62), polluted by cement (161); **Dust** (134), bed (53); **Air**-outdoor/indoor (85), indoor (152), outdoor air (556), indoor air of patient home's with allergic alveolitis (463); foodstuff (52, 123, 154), cereal (130), pharmaceutical products (142, 183), potato/onion (160), leather goods (264), drug

tablet (265), juice of *Citrus* fruits (266), baby talc powder (271), surgical strings (273), powdered red pepper (274)].

P. verrucosum var. *corymbiferum* (Westling) Samson, Stolk & Hadlok. See ***P. hirsutum***

P. verrucosum var. *cyclopium* (Westling) Samson, Stolk & Hadlok. See ***P. aurantiogriseum***

P. verrucosum var. *melanochlorum* Samson, Stolk & Hadlok. See ***P. solitum***

P. verrucosum var. *ochraceum* (Bainier) Samson, Stolk & Hadlok. See ***P. aurantiogriseum***

P. verrucosum var. *verrucosum* Samson, Stolk & Hadlok. See ***P. verrucosum***

P. verruculosum Peyronel [**Soil** (112, 114), agricultural (44); **Air** (368), outdoor (60), indoor (440), indoor air of apartmant flat-indoor air of large railway station waiting hall-faculty of science lecture room (552), hospital air (289); bed dust (53), juice of *Citrus* fruits (266), eye cosmetics (272), lake water (366)].

P. vinaceum J.C. Gilman & E.V. Abbott [**Soil** (117, 249), forest (478), agricultural (246)].

P. viridicatum Westling. [**Air** (368); outdoor (60, 226, 284, 425), indoor (61, 82, 440), outdoor/indoor (135), hospital air (289); **Soil** (112, 114, 249), agricultural (246); **Other**: Foodstuff (51, 52, 123, 125, 154), grape (41, 439), red pepper (77), cereal (130), fig (145), olive (148), apple (169), cheese (458)]. Important metabolites (7, 12): Xanthomegnin, viomellein, vioxanthin, xanthoviridicatin D & G, penicillic acid, viridic acid. Secondary metabolites with unknown toxicity (7): Brevianamide A, viridamine. Reported as *P. ochraceum* Bainier in Thom [Foodstuff (51, 52, 125, 154), tomato/tomato paste (43), raw cotton (294, 295), cornflakes (296), wheat-feed products (516)]. Reported as *P. psittacinum* Thom [Outdoor air (60)]. Reported as *P. aureum* Corda [Foodstuff, (51, 52, 154)].

P. vulpinum (Cooke & Massee) Seifert & Samson. Reported as *P. claviforme* Bain. [**Soil** (6, 99, 141, 228), greenhouse (42), burnt forest (49), agricultural (150, 153, 156); foodstuff (51, 52, 125), olive (148), **Air** (293), indoor (152); potato/onion (160), lemon (352)].

P. waksmanii K. M. Zalessky [**Soil** (46-48, 76, 115, 158, 191), greenhouse (42), polluted by cement (45, 161, 283), forest (478), tea field (302), environs of thermic power plant (566); **Air** (368), outdoor (60, 425, 517), indoor (61), hospital air (289), outdoor air in the environs of thermic power plant (566); **Other**-foodstuff (51, 52), moss (*Musci*) (290)]. Reported as *P. griseo-azureum* C. Moreau & V. Moreau [Outdoor air (155)].

P. wortmannii Klocker. See ***P. kloeckeri***

P. yarmokense Baghd. See ***P. canescens***

P. zacinthae C. Ramírez & A.T. Martínez [].

Emericella Berk.

E. quadrilineata (Thom & Raper) C. R. Benj. [Indoor air (424)].

Eupenicillium F. Ludw.

E. alutaceum D. B. Scott [Nature or human, accurate habitat/substrate is unknown (457)].

E. baarnense (J. F. H. Beyma) Stolk & D. B. Scott [**Dust** (134), Bed (53); agricultural soil (44), surgical strings (273)]. Anamorph: ***Penicillium vanbeymae*** Pitt.

E. cinnamopurpureum D. B. Scott & Stolk [Bed dust (53)]. Anamorph: ***Penicillium phoeniceum*** J. F. H. Beyma

E. egyptiacum (J. F. H. Beyma) Stolk & D. B. Scott [Soil (249)]. Anamorph: ***Penicillium nilense*** Pitt.

E. euglaucum (J.F.H. Beyma) Stolk & Samson [Lake water (366)].

E. javanicum (J. F. H. Beyma) Stolk & D. B. Scott. Reported as *Penicillium oligosporum* Saito & Minoura [drug tablet (265)]. Anamorph: ***Penicillium indonesiae*** Pitt.

E. levitum (Raper & Fennell) Stolk & D.B. Scott [Eye cosmetics (272)]. Anamorph: ***Penicillium rasile*** Pitt.

E. limoneum Goch. & Zlattner [Bed dust (53)]. Anamorph: ***Torulomyces lagena*** Delitsch.

E. meloforme Udagawa & Y. Horie [Agricultural soil (44)]. Anamorph: ***Penicillium meloforme*** Udagawa & Y. Horie.

E. meridianum D. B. Scott [Bed dust (53), surgical strings (273)]. Anamorph: ***Penicillium meridianum*** D. B. Scott.

E. ochrosalmoneum D. B. Scott & Stolk [Bed dust (53)]. Anamorph: ***Penicillium ochrosalmoneum*** Udagawa.

E. osmophilum Stolk & Veenb.-Rijks [Bed dust (53)]. Anamorph: ***Penicillium osmophilum*** Stolk & Veenb.-Rijks.

E. pinetorum Stolk [**Soil** (93), greenhouse (42), surgical strings (273)]. Anamorph: ***Penicillium pinetorum*** M. Chr. & Backus.

Gliocladium Corda

G. catenulatum J.C. Gilman & E.V. Abbott [Soil (99), substrate and/or habitat are unknown (401)].

G. deliquescens Sopp. [Oak forest soil (75), potato/onion (160)].

Gliocladium penicilloides Corda [potato (452)].

G. roseum Bainier [**Soil** (99, 227), wheat field (69), greenhouse (42), oak forest (75), forest (478, 509), corn fields (167), tea field (302), black pine forest (555); **Air-** (293), indoor (82), outdoor (365); **Other**-cake (109), potato/onion (160), biscuit (168), haricot bean (355), tomato, cucumber and aubergine (402), pseudoscorpion (544), substrate and/or habitat are unknown (401)].

G. solani (Harting) Petch. [Soil (99)].

G. vermoeseni (Biourge) Thom [Forest soil (478, 509)].

G. virens J.H. Mill., Giddens & A.A. Foster [Tea field soil (302), substrate and/or habitat are unknown (393, 442), tomato, cucumber and aubergine (402)].

Gliocladium viride Matr. [potate (452)].

Paecilomyces Bainier

P. aerugineus Samson [Soil (47, 48)].

P. byssochlamydoides Stolk & Samson. [Soil polluted by cement (308)]. Teleomorph: *Talaromyces byssochlamydoides* Stolk & Samson.

P. carneus (Duche & R. Heim) A. H. S. Br. & G. Sm. [**Soil** (47, 48, 99, 228), greenhouse (42), agricultural (44)].

P. farinosus (Holmsk.) A.H.S. Br. & G. Sm. [**Soil** (47, 48, 99), forest (478)].

P. fulvus Stolk & Samson [Foodstuff (52), Bed dust (53), leather goods (264)]. Teleomorph: ***Byssochlamys fulva*** Olliver & G. Sm.

P. fumosoroseus (Wize) A.H.S. Br & G. Sm. [Glasshouse? (429), isolataed from *Trialeurodes vaporariorum* (515), black pine forest soil (555), tomato growing in greenhouses (565)].

P. fuscatus N. Inagaki. See ***Scopulariopsis gracilis***

Scopulariopsis gracilis Samson.[drug tablet (265)].

P. javanicus (Frieder. & W. Bally) A. H. S. Br. & G. Sm. [Soil (47, 48)].

P. lilacinus (Thom) Samson [**Soil** (46, 76, 99, 228, 249), polluted by cement (45, 283), forest (478), agricultural (246), tea field (302); greenhouse (403, 428), isolataed from *Trialeurodes vaporariorum* (515)]. Reported as *Penicillium lilacinum* Thom [**Soil** (112, 114-117, 120), polluted by meat waste (165); foodstuff (51, 125, 154), human skin wound (63), Substrate and/or habitat are unknown (310)].

P. marquandii (Massee) S. Hughes [**Soil** (76), burnt and normal forest (49), forest (55), agricultural (246, 249), tea field (302)].

P. niveus Stolk & Samson. [leather goods (264), drug tablet (265)]. Teleomorph: ***Byssochlamys nivea*** Westling.

P. ramosus Samson & H. C. Evans [Agricultural soil (246, 249)].

P. variotii Bainier [**Soil** (56, 76, 99, 249), greenhouse (42), forest (478), corn fields (167), agricultural (246), black pine forest (555); **Dust** (134), bed (53); **Other**-foodstuff (51, 52), dung (170), human-cerebrospinal fluid specimens of a cancer patient (256), leather goods (264), drug tablet (265), baby talc powder (271), eye cosmetics (272), surgical strings (273), powdered red pepper (274), cornflakes (296), air (368), small animals (430), margarine (445, 547), butter (588)].

Talaromyces C. R. Benj.

T. bacillisporus (Swift) C.R. Benj. [Eye cosmetics (272)]. Anamorph: ***Geosmithia swiftii*** Pitt.

T. byssochlamydoides Stolk & Samson [Drug tablet (265)]. Anamorph: ***Paecilomyces byssochlamydoides*** Stolk & Samson.

T. emersonii Stolk [Bed dust (53), wheat seed (54), baby talc powder (271)]. Anamorph: ***Geosmithia emersonii*** (Stolk) Pitt.

T. flavus (Klocker) Stolk & Samson [Dust (134)]. Anamorph: ***Penicillium dangeardii*** Pitt. ***T. flavus*** var. ***flavus*** (Klocker) Stolk & Samson [Baby talc powder (271)].

T. helicus (Raper & Fennell) C.R. Benj. var. **helicus**. [Bed dust (53), drug tablet (265), baby talc powder (271), surgical strings (273), powdered white pepper (274)]. Anamorph: ***Penicillium spirillum*** Pitt. Reported as *T. helicus* var. *major* Stolk & Samson [**Dust** (134); bed (53), drug tablet (265)].

T. helicus var. *major* Stolk & Samson. See ***T. helicus***

T. intermedius (Apinis) Stolk & Samson [Bed dust (53)]. Reported as *P. intermedium* Stolk & Samson [Foodstuff (123), soybean seed (126)].

T. luteus (Zukal) C. R. Benj. Reported as *P. luteum* Zukal [Substrate and/or habitat are unknown (68), foodstuff (125)].

T. leycettanus H. C. Evans & Stolk [Soil (47, 48)]. Anamorph: ***Talaromyces leycettanus*** **(**H. C. Evans & Stolk) Stolk et al.

T. macrosporus (Stolk & Samson) Frisvad, Samson & Stolk**.** [Milk, milk products and fruit juices (357)].

T. ohiensis Pitt. [Bed dust (53), greenhouse soil (42)].

T. purpureus E. Mull. & Pacha-Aue) Stolk & Samson [Drug tablet (265)]. Anamorph: ***Penicillium purpureum*** Stolk & Samson.

T. rotundus (Raper & Fennell) C.R. Benj. [Eye cosmetics (272)].

T. stipitatus (Thom) C. R. Benj. [Bed dust (53), greenhouse soil (42)]. Anamorph: ***Penicillium emmonsii*** Pitt.

T. udagawae Stolk & Samson Anamorph: ***Penicillium udagawae*** Stolk & Samson) [Bed dust (53)].

T. wortmannii (Klocker) C. R. Benj. [Soils of wheat fields (69), bed dust (53), drug tablet (265), baby talc powder (271), surgical strings (273)]. Anamorph: *Penicillium kloeckeri* Pitt.

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