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New Species of Parasitic Fungi—III

By

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With. 5 Text-figures

11. *Cercospora Astilbes* TOGASHI sp. nov.

(Fig. 1)

Maculis primum minutis, sparsis, indefinitis, 0.5–1.0 mm. diametro, pallide stramineis, dein brunneis vel rufo-brunneis, confluentibus, interdum ad margines foliorum irregularibus; caespitulis hypophyllis, laxe dispersis, inconspicuis, fusco-olivaceis; conidiophoris singulatim ab hyphis sterilibus ramosis, brunneis, repentibus oriundis, simplicibus, ad apicem parum geniculatis, olivaceo-brunneis, apice fere hyalinis, 15–40 × 3–5 μ; conidiis obclavato-cylindraceis, ad apicem leniter acutis, ad basim longe obconicis truncatisque, curvatis, raro rectis, pluriguttulatis, indistincte 1–4-septatis, hyalino-viridulis, 17–42 × 2–4 μ.

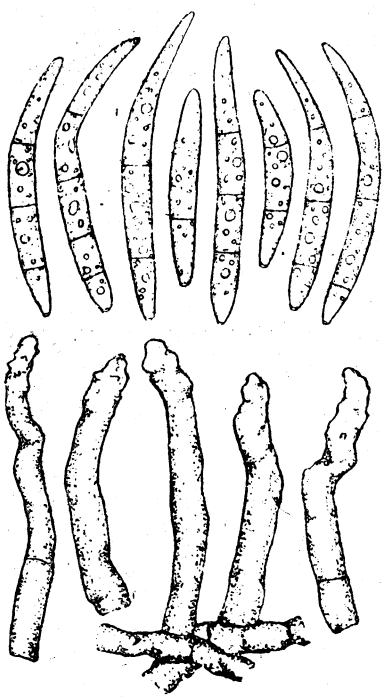

Fig. 1
Cercospora Astilbes TOGASHI.
Conidia and conidiophores (× 1200).

Hab. on *Astilbe congesta* NAKAI (Toriashi-shoma). Pref. Iwate: Oshida (Sept. 9, 1934, K. TOGASHI—Type!).

12. *Cercospora Chloranthi* TOGASHI et KATSUKI sp. nov.

(Fig. 2)

Maculis indefinitis, supra nonnihil pallide flavidis, infra mycelio nigrescente vel fusco-olivaceo tectis; caespitulis densi-

uscule effusum, plerumque nervuli foliorum plus minusve limitatis, dein coalescentibus, magnam folii partem obtegentibus; conidiophoris laxe fasciculatis in tenuissime stromatibus vel singularia in hyphis repentibus ortis, simplicibus vel

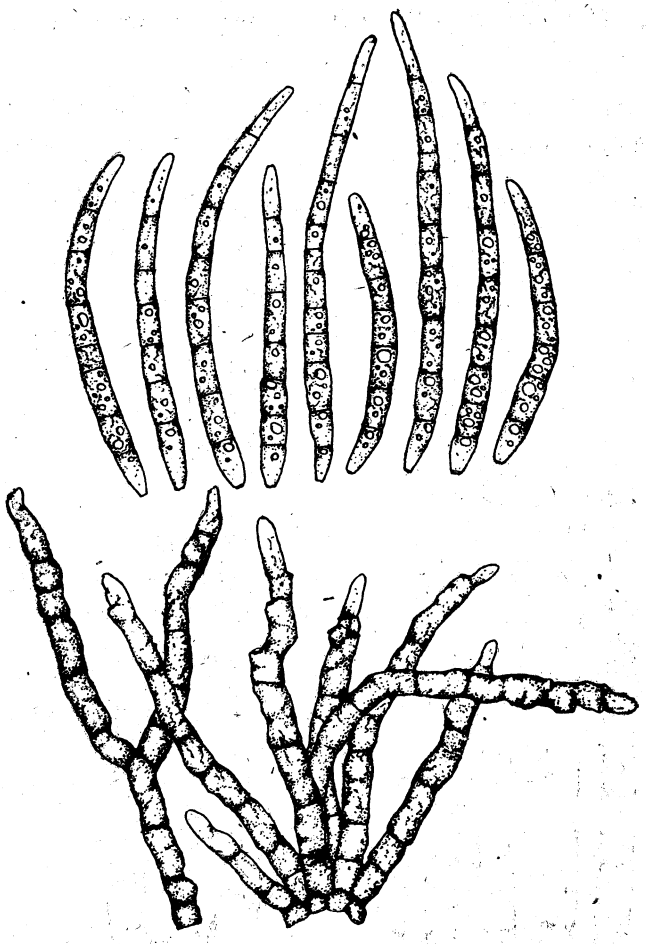

Fig. 2. *Cercospora Chloranthi* TOGASHI et KATSUKI.
Conidia and conidiophores (×670).

ramulosis, flexuosis, raro geniculatis, distincte multiseptatis, atrofuligineis, 30–136 μ, plerumque 60–90 μ longis, 3–6 μ latis; conidiis tereti-obclavatis saepe cylindraceis, varie curvatis, raro rectis, ad basim obconicis truncatisque, apice subacutis, 5–12-septatis, ad septa interdum constrictis, guttulatis, 30–120 × 3–6 μ.

Hab. on *Chloranthus serratus* ROEM. et SCH. (Futari-shizuka). Pref. Fukuoka: Mt. Ehiko (July 26, 1938, T. KATSUKI—Type!; Sept. 22, 1940, Y. MAKI and T. KATSUKI).

13. *Cercospora Dispori* TOGASHI et MAKI sp. nov.

(Fig. 3)

Maculis primum ellipticis suborbicularibus, rufo-brunneis, dein brunneolos vel fusco-brunneis, confluentibus, interdum totum folium occupantibus; caespitulis

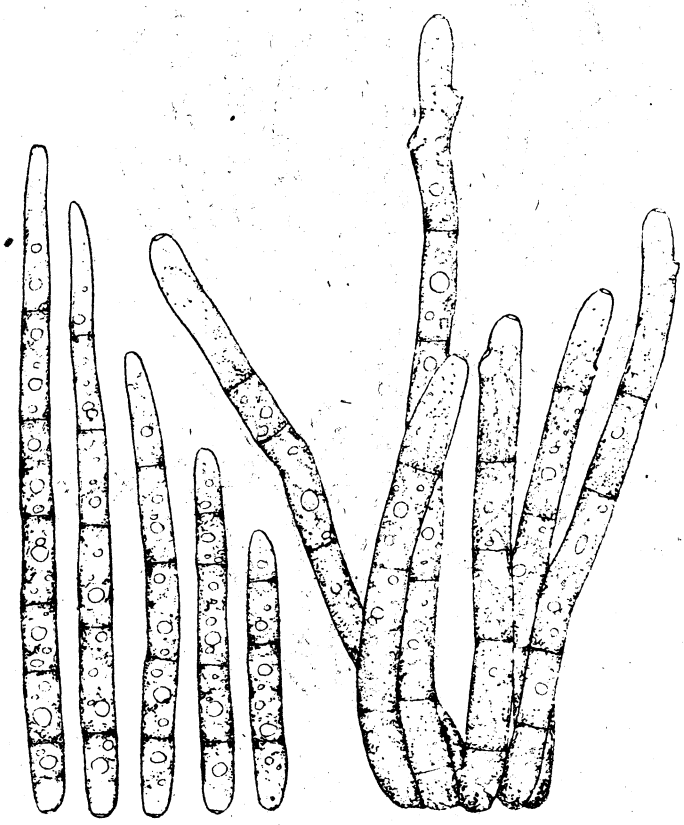

Fig. 3. *Cercospora Dispori* TOGASHI et MAKI.
Conidia and conidiophores (×950).

amphigenis, sed autem saepe epiphyllis, dispersis, minutissime punctiformibus; stromatis atro-brunneis, 20–40 μ crassis; conidiophoris confertis fasciculatim,

simplicibus, olivaceo-brunneolos, apicem versus pallidioris, erectis vel leviter flexuosis, saepe parce geniculatis, 4–10-septatis, 10–60 μ, raro usque 175 μ longis, 4–7 μ latis; conidiis acicularibus vel clavato-cylindraceis, rectis vel parum curvatis, ad basim truncatis vel subtruncatis, apicem versus sensom attenuatis, multiguttulatis, 4–9-septatis, fere hyalinis, 25–140 μ, usque 170 μ longis, 3–6 μ latis.

Hab. on *Disporum smilacinum* A. GRAY var. *ramosum* NAKAI (Edauchi-chigoyuri). Pref. Fukuoka: Mt. Ehiko (Sept. 22, 1940, Y. MAKI and T. KATSUKI—Type!).

14. *Cercospora ehikomontana* TOGASHI et KATSUKI sp. nov.

Caespitulis semper hypophyllis, in epiphyllo decolorationes indistinctas irregulares, laxe effusis, olivaceis; conidiophoris ab hyphis sterilibus repentibus oriundis, non fasciculatis, dilute olivaceo-brunneis, curvatis, tortuosis vel geniculatis, septatis, plerumque 10–60 × 2.0–3.5 μ; conidiis cylindraceo-obclavatis vel cylindraceis, indistincte multiseptatis, rectis vel plus minusve curvatis, dilutissime olivaceis, ad basim subtruncatis, apicem versus sensim attenuatis, plerumque 25–80 × 2–3 μ.

Hab. on *Mercurialis leiocarpa* SIEB. et Zucc. (Yama-ai). Pref. Fukuoka: Mt. Ehiko (Sept. 22, 1940, Y. MAKI and T. KATSUKI—Type!).

15. *Cercospora Gymnemae* TOGASHI et ONUMA sp. nov.

Maculis amphigenis, minutis, sparsis, orbiculari-angulosis vel angulosis, irregularibus, 1–3 mm. diametro, ochraceis vel brunneis, confluentibus; caespitulis hypophyllis, paucis in quaque macula, griseo-olivaceis; conidiophoris singulis e hyphis repentibus oriundis, dilute olivaceo-brunneolis, rectis vel tortuosis, non geniculatis, simplicibus, 10–60 × 4–6 μ; conidiis cylindraceo-obclavatis vel cylindraceis, curvatis, raro rectis, ad basim attenuato-truncatis, apicem obtusis, 1–5-septatis, saepe ad septa constrictis, granulosis, ex hyalino chlorinis, 15–60 μ, usque 85 μ longis, 4–6 μ latis.

Hab. on *Gymnema affine* DECNE. (Horai-aokazura). Formosa: Shinsha (June, 1931, F. ONUMA—Type!).

16. *Cercospora Kerriae* TOGASHI sp. nov.

(Fig. 4)

Maculis amphigenis, rotundatis vel oblongis, superne brunneis, inferne griseo-brunneis, rubro fusco cinctis, definitis, interne griseo arescentibus, 1–8 mm.

diametro, concentrice expansis et magnis, non vel vix confluentibus; caespitulis hypophyllis, perexiguis et oculo nudo non visibilibus; conidiophoris simplicibus, rectis vel leniter flexuosis, apice obtuso-attenuatis, dilute olivaceis, brevis, 32–45

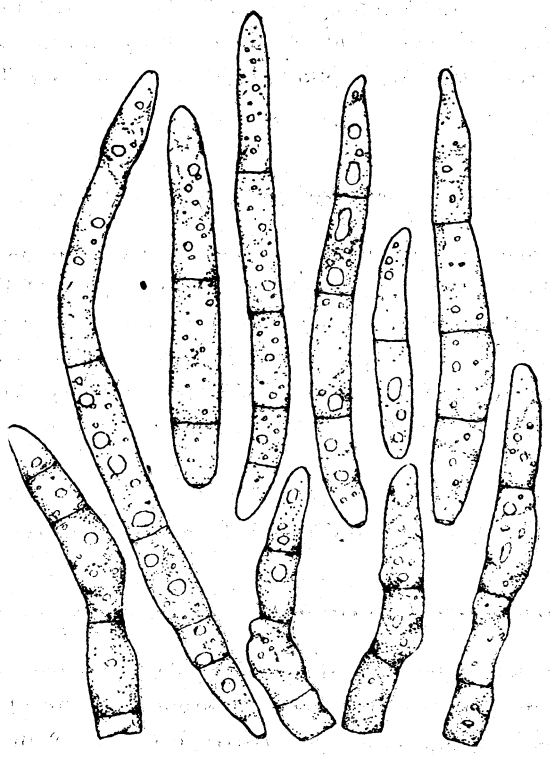

Fig. 4. *Cercospora Kerriae* TOGASHI.
Conidia and conidiophores (×1200).

× 4–8 μ, 2–4-septatis; conidiis acrogenis irregularibus, cylindraceis, elongato-obclavatis, superne vel inferne attenuatis, utrimque obtusis, rectis vel curvatis, 28–74 μ, usque 85 μ longis, 4–6 μ latis, 2–8-septatis, hyalinis.

Hab. on *Kerria japonica* DC. var. *typica* MAKINO (Yamabuki). Pref. Iwate: Morioka (Sept. 2, 1934, K. TOGASHI—Type!).

17. *Cercospora Ligustici* TOGASHI sp. nov.

(Fig. 5)

Maculis amphigenis, atro-brunneis vel fusco-brunneis, venulis limitatis, an-

gulosis, supra parum elevatis, immarginatis, primum 1–5 mm. crassis, demum confluentibus; caespitulis hypophyllis, griseolis, stromatis fusco-brunneis, 15–30 μ diametro; conidiophoris dense fasciculatis, valide geniculatis, flexuosis, continuis, pallide olivaceis, brevis, 10–55 × 4–7 μ; conidiis cylindraceis, utrimque attenuatis, elongato-fusiformibus, obclavatis, erectis vel parum curvatis, basi subtruncatis, apice obtusis, 1–4-septatis, hyalinis, 15–65 × 4–7 μ.

Hab. on *Ligusticum Hultenii* FERNALD (Maruba-toki). Prov. Ishikari: Oshoro (June 29, 1920, K. TOGASHI—Type!).

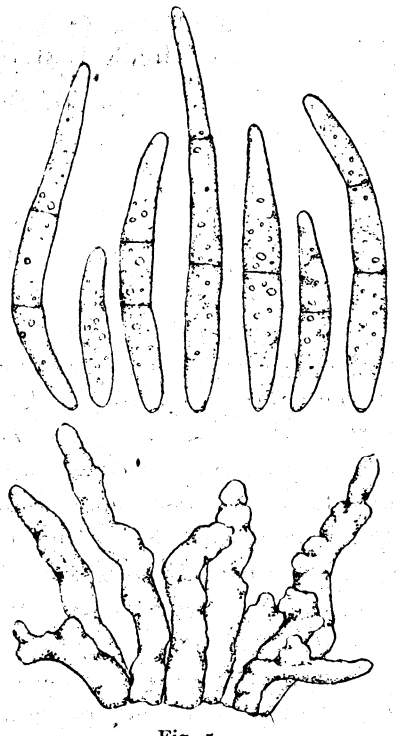

Fig. 5.
Cercospora Ligustici TOGASHI.
Conidia and conidiophores (× 1200).

18. *Cercospora Naitoi*
TOGASHI sp. nov.

Cercospora Mate NAITO (non SPEGAZZINI) in Mem. Coll. Agric. Kyoto Imp. Univ., No. 47: 49, 1940.

Maculis amphigenis, sparsis, rotundatis vel irregularibus, plerumque 2–6 mm., usque 10 mm. diametro, supra fusco-rubro-brunneis, infra griseo-brunneis, immarginatis, sed utrimque plus minusve linearibus elevatis; caespitulis epiphyllis, raro amphigenis; stromatis globosis, atro-brunneis, 15–40 μ crassis; conidiophoris dense fasciculatis, pallide fuligineis, brevis, plerumque 5–30 μ, raro usque 52 μ longis, 2–5 μ latis, non-geniculatis, simplicibus, saepe undulatis, non vel pauce septatis; conidiis cylindraceo-obclavatis vel linearibus, leniter curvatis vel rectis, indistincte 0–5-septatis, basi subtruncatis vel truncatis, apice subacutis, dilute olivaceis vel subhyalinis, plerumque 30–60 μ, usque 80 μ longis, 2.5–5.0 μ latis.

Hab. on *Ilex Oldhami* MIQ. (Naname-noki). Kyoto (Sept. 20, 1924, T. NOJIMA—Type!). Pref. Kyoto: Kaiinji-mura (Dec. 3, 1935, N. NAITO); Mukomachi (Oct. 10, 1635, N. NAITO).

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