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New Species of Parasitic Fungi—I

By

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1. *Irene alpina* TOGASHI et MENTZER sp. nov.

Fig. 1-2

Coloniis minutis, epiphyllis, raro hypophyllis et petiolicolis, sparsis, usque 4 mm. diam., saepe confluentibus, nigricantibus, leniter velutinis; mycelium ex hyphis densissime intertextis valde ramosis septatis (articulis 30-45 μ longis) obscure brunneis 5-8 μ crassis compositum; hyphopodia capitata modice numerosa, valde irregularia, cruciatio-lobata, angulato-lobata vel sublobata, cellula superiore



Fig. 1. *Irene alpina* TOGASHI et MENTZER
Perithecia and mycelia, showing appendages and hyphopodia (Enlarged).
(Photo Dr. W. N. TAKAHASHI).

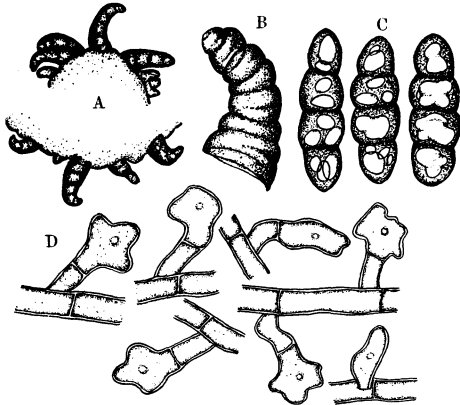


Fig. 2. *Irene alpina* TOGASHI ET MENTZER

- a. Appendages on the perithecia ($\times 100$).
- b. An appendage ($\times 400$).
- c. Ascospores ($\times 400$).
- d. Different forms of hyphopodia ($\times 400$).

2. *Claviceps yanagawaensis*

TOGASHI sp. nov.

Fig. 3-4

Sclerotiiis depresso-cylindratis, utrimque attenuatis, acuminatis vel rotundatis, curvatis, primum pallide flavido-viridis et granuloso-asperulis, maturis nigrescentibus, rubescenti-violaceis vel atro-violaceis, levibus, intus albidis, 1.5–1.5 mm. longis, 0.55–1.3 mm. latis, plerumque $3.5-7.5 \times 0.75-1.0$ mm.; stromatibus solitariis, binatis vel ternatis, usque hexatis, carnosus; capitulo subgloboso, inferne appanato subtus excavato, ab ostiis prominulis obscurioribus punctulatis, primum pallide rufo-brunneis, dein atro-purpureis vel brunneo-nigricantibus, 0.3–1.0 mm. altis, 0.4–1.5 mm. latis, longissime stipitatis; stipite cylindrico, gracili flexuoso, concolo, 0.7–6.2 mm.

maxima inferiore brevi stipitiformi, obscure brunnea, tota $22-35\mu$ longa, superne $15-25\mu$ lata, basi $6-8\mu$ lata, alternantia; setae nullae; perithecia in centro plagarum pauca conferta, globosa, atra, $160-270\mu$ diam., appendicibus numerosis, vermiformibus, sursum curvatis, obscure brunneis, $40-80\mu$ longis, usque 110μ , ad basim $20-36\mu$ latis; ascis jam resorptis; sporidiis ellipsoideo-cylindratis, utrimque rotundatis, fuliginis, 3-septatis, ad septa constrictis, $27-48 \times 11-16\mu$.

Hab. in foliis visis *Coptidis trifoliatae* SALISB. in Japonia (Mounte Iwate, Pref. Iwate: Aug. 5, 1935, N. HIRATSUKA & K. TOGASHI-typus).

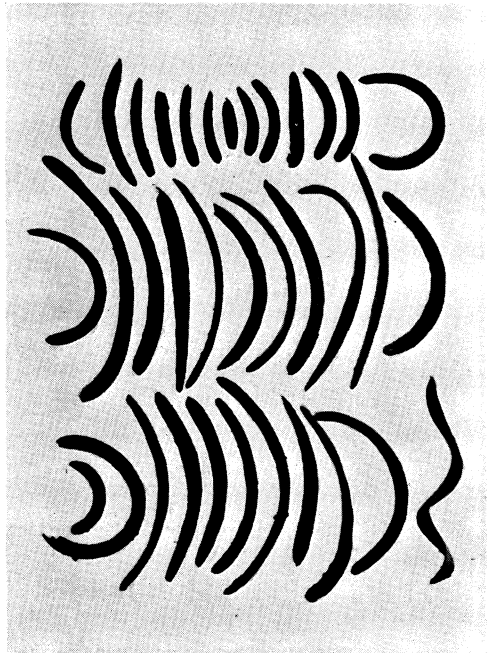


Fig. 3. Sclerotia of *Claviceps yanagawaensis* TOGASHI (Somewhat enlarged).

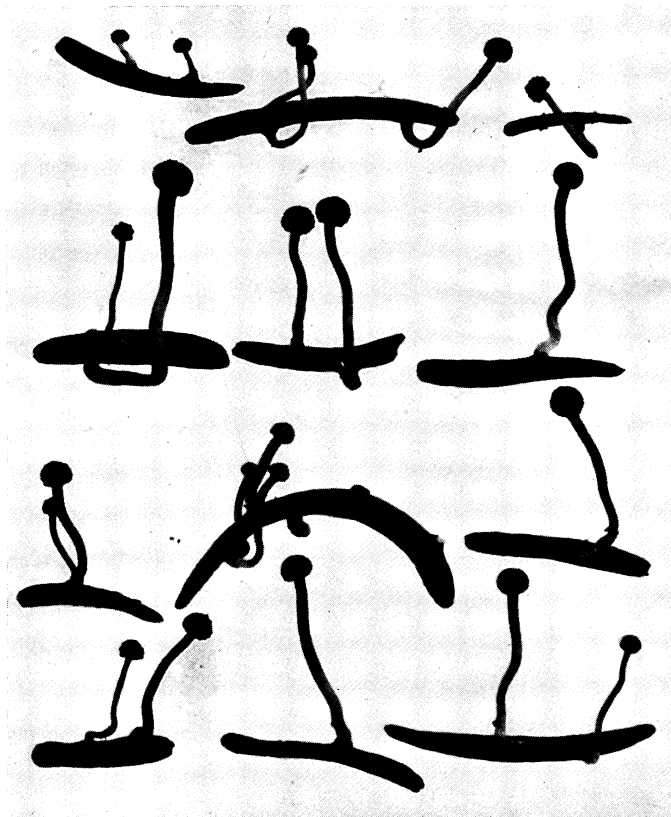


Fig. 4. Germinating sclerotia of *Claviceps yanagawaensis* TOGASHI
(Somewhat enlarged).

longo, 0.4–1.5 mm. lato; peritheciis numerosis, immersis, dens stipatis, elongato-
obovatis, ostioliis papillae-formibus, $180\text{--}320 \times 70\text{--}190\mu$; ascis cylindraceutis, lineari-
bus, gracillimis, apice attenuatis, subhemisphaerico-incrassatis, $2.5\text{--}4.5\mu$ crassis,
ad basin attenuatis, curvatis, hyalinis, 8-sporis, $85\text{--}165 \times 4.0\text{--}8.0\mu$; sporidiis fili-
formibus, parallele dispositis, curvatis vel rectis, continuis vel uni-septatis,
hyalinis, pluriguttulatis, $75\text{--}135 \times 1.0\text{--}2.25\mu$.

Hab. in caryopsidis vivis *Zoysiae japonicae* STEUD. in Japonia. (Yana-
gawa-mura Pref. Iwate: Oct. 2, 3, 16, Nov. 4, 1934, K. TOGASHI; Maio 12, Junio
11, Julio 17, Aug. 16, Sept. 27, Oct. 12, 19, 1935, K. TOGASHI).

The sclerotia of this new fungus are depressed and light yellowish green
when they are young. By these macroscopical characteristics it may be easily
distinguished from the other graminicolous species of *Claviceps*.

3. *Mycosphaerella yanagawaensis* TOGASHI sp. nov.

Fig. 5

Peritheciis epiphyllis vel stipiticolis, sparsis vel subgregariis, parenchymati innatis, minutis, sphaeroidies, vix prominulis, ostiolis minutis hiantibus (latit. circiter $10-15\mu$), fuliginis, circa ostiolum nigricantibus, $70-150\mu$ diam., plerumque $90-120\mu$; ascis paucis, fasciculatis, cylindraceo-subclavatis, brevissime pedicellatis, in pedicellum brevem attenuatis, leniter curvulis vel rectis, apophysatis, octosporis, $48-86 \times 16-23\mu$, plerumque $50-65 \times 18-20\mu$; sporidiis subdistichis, fusiformibus, leniter curvulis vel subrectis, uniseptatis, ad septum vix constrictis, hyalinis, $18-27 \times 7-12\mu$, plerumque $20-24 \times 8-10\mu$.

Hab. in foliis et stipitiis vivis *Pteridii aquilini* KUHN. var. *japonici* NAKAI in Japonia. (Yanagawa-mura, Pref. Iwate: Aug. 6, 1934—typus K. TOGASHI; Julio 17, 1935, K. TOGASHI).

Nine species and one variety of *Mycosphaerella* and *Sphaerella* are described as occurring on *Pteridium aquilinum*. Among them *S. prominula* SPEG. seems to be closely related to the fungus under consideration, but both the asci and ascospores of the former are much narrower than those of the latter. *M. Pteridis* (DESM.) VESTERGR. and *S. Tyrolensis* AUERSW. also have the elongated asci and ascospores.

4. *Phyllosticta Lespedezae* TOGASHI sp. nov.

Maculis amphigenis, irregularibus, angulatis, nervis limitatis, dispersis vel gregariis, supra atro-brunneis, infra dilutioribus, 2–5 mm. latis, interdum confluentibus, demum partes amplas foliorum occupantibus; pycnidiis plerumque hypophyllis, saepe amphigenis, numerosissimis laxe gregariis, subepidermicis, globosis, $35-75\mu$ in diam., plerumque $40-50\mu$, contextu atro-brunneis, membranaceo-parenchymaticis; conidiis minutis, bacillaribus, rectis, utrimque rotundatis, hyalinis, continuis, $3-6 \times 0.8-1.2\mu$.

Hab. in foliis vivis *Lespedezae bicoloris* TURCZ. var. *japonicae* NAKANI in Japonia (Yanagawa-mura, Pref. Iwate: Oct. 1, —typus, Oct. 2, 1934, K. TOGASHI).

5. *Phyllosticta Yanagawana* TOGASHI sp. nov.

Maculis amphigenis, sparsis, circularibus vel subcircularibus, medio albo-

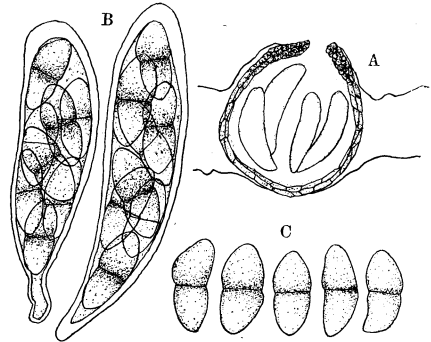


Fig. 5. *Mycosphaerella yanagawaensis* TOGASHI

- a. Peritheciium ($\times 275$).
- b. Asci ($\times 600$).
- c. Ascospores ($\times 600$).

griseis, arescentibus, rubro-brunneo-marginatis, plerumque 5–15 mm. latis, saepe confluentibus, tunc magnitudine formaque irregularibus, demum tota lamina foliorum destruitur; pycnidiis amphigenis, sparsis, fere superficialibus, brunneo-atris, globoso-depressis vel globosis, 100–220 μ , plerumque 140–170 μ diam., contextu tenui, parenchymatico, flavo-brunneis, ostiolo minuto pertusis, 15–20 μ latis, sporulis numerosis, oblongis vel cylindraceutis, rectis, utrimque rotundatis, continuis, hyalinis, 3.5–7.5 \times 1.8–3.0 μ , plerumque 5.0–7.0 \times 2.0–2.5 μ , rarius usque ad 11 μ longis.

Hab. in foliis vivis *Hostae Sieboldianae* ENGL. in Japonia (Yanagawamura, Pref. Iwate: Aug. 5, 1934; Julio 16–typus, 17, Aug. 16, 1935, K. TOGASHI).

The present fungus differs from *Phyllosticta Funkiae* FERRARIS in its larger pycnidia and smaller spores.

6. *Septoria Cardiocrini* TOGASHI sp. nov.

Maculis in foliis amphigenis, supra brunneolis vel atro-brunneis, infra brunneis vel ochraceo-brunneis, rotundatis, oblongis vel irregularibus, indeterminatis vel fusco-marginatis, 10–25 mm. latis, subinde confluentibus, tunc majorem folii partem denique occupantibus; pycnidiis epiphyllis, numerosis, densiuscule sparsis, diu epidermide tectis, denique erumpentibus, globosis vel subglobosis, atro-brunneis, 60–130 μ , rarius usque ad 150 μ diametris, contextu minute parenchymatico, ostiolis latis 20–40 μ diametris; sporulis filiformibus, cylindraceutis vel elongato-subclavatis, utrimque acutiusculis, curvulis vel varie flexuosis, raro rectis, 1–6 plerumque 3–5 septatis, hyalinis, raro guttulatis, 24–54 \times 1.0–2.0 μ , plerumque 36–42 μ longis.

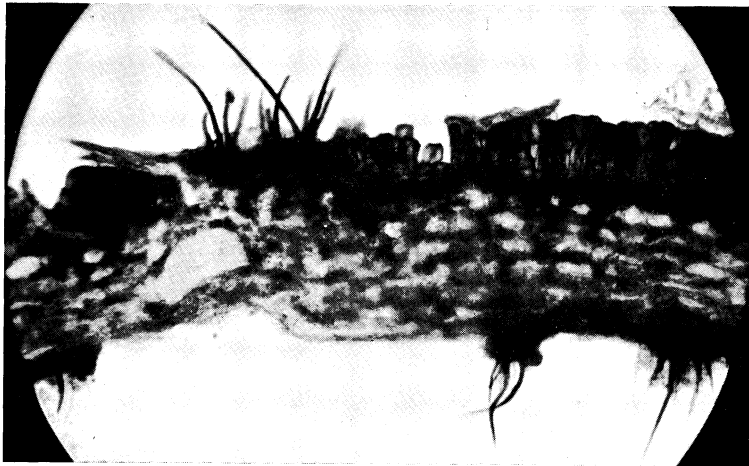


Fig. 6. *Collectotrichum pucciniophilum* TOGASHI on the teleuto-sori of *Puccinia Funkiae* DIET. (Enlarged).

Hab. in foliis vivis *Cardiocrini cordati* MAK. in Japonia (Yanagawa-mura, Pref. Iwate: Aug. 5, 1934, K. TOGASHI; Junio 11, 12—typus; 13, 1935, K. TOGASHI).

7. *Colletotrichum pucciniophilum* TOGASHI sp. nov.

Fig. 6-7

Acervulis sub soris *Puccinia Funkiae* DIET., amphigenis, praecipue epiphyllis, sparsis, atris, 60–130 μ latis; setulis copiosis, simplicibus rigidis, subrectis, quandoque subflexuosis, atro-brunneis, basi subinflatulis, sursum tenuatis, dilu-
tioribus, non vel 1–4 septatis, 30–190 \times 3–8 μ , plerumque 50–80 \times 4–7 μ ; conidiis falcatis, utrimque acutis, hyalinis, continuis, 12–24 \times 2.5–4.5 μ , plerumque 17–20 \times 2.5–3.5 μ .

Hab. in foliis vivis *Hostae Sieboldianae* ENGL., socio *Puccinae Funkiae* DIET. in Japonia (Yanagawa-mura, Pref. Iwate: Aug. 5, 1934—typus, K. TOGASHI).

Recently Tehon (*Mycologia* 25, 4, p. 254, 1933) in Illinois described a species of *Colletotrichum*, *C. aeciicolum*, found on the aecidia of *Puccinia Asterum* KERN. This seems to be the only record that *Colletotrichum* or *Gloeosporium* occurs intimately on rust sori. The fungus in question, however, is distinctly different from *C. aeciicolum* in its morphological characters.

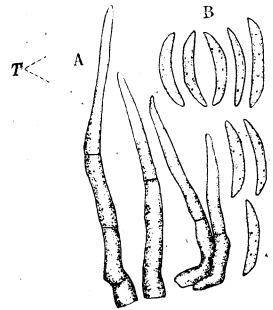


Fig. 7. *Colletotrichum pucciniophilum* TOGASHI
a. Setae ($\times 600$).
b. Conidia ($\times 600$).

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October 12, 1936

Harbarium of the University of California, Berkeley