

Rauhigkeit derselben wird durch das Mycelium hervorgebracht, womit sie überkleidet sind. Tief in den Holzspänen findet man außerdem noch verschiedene eingestreute Sporen, auch Reste eines *Coccotrichum*.

694. *Puccinia Scorodoniae* Lk. Acervulis minutis in acervos subrotundos magnos (tuberculosos) confluentibus, sporis cinnamoneis, pruina adpersis, pedicellis longissimis Lk. Die beigegebenen Specimina enthalten leider nur unreife Sporen. Ob schon der Pilz mehrere Wochen an demselben Standorte von mir beobachtet wurde, so lieferte derselbe doch keine reifen Sporen, die acervuli fielen am Ende ab, ohne solche auszustreuen. Da diese Puccinie selten zu sein scheint, so theile ich sie dennoch mit; die Specimina genügen, um sie dem Habitus nach kennen zu lernen.

695. *Puccinia Typhae* Kalchbr. Sporidiis disseptatis, loculo supremo globoso, saturate fusco, medio obconico truncato dilutiori, infimo in pedicellum longum attenuato, subhyalino, pulvinulis umbrinis, epidermidem rumpentibus, sparsis vel dense gregariis ut plurimum macula tabacina cinctis.

Anmerkung. Nach der Analogie der übrigen Puccinien ist es höchst wahrscheinlich, daß auch diese sich an den noch lebenden Schäften des Rohrkolbens entwickelt; ich konnte sie aber in diesem Stadium nicht beobachten, da ihr Standort — ein tiefer Sumpf — nur mittelst des Eises zugänglich wird.

697. *Urocystis* (*Polycystis* Léveillé) *pompholygodes* (Schlecht.) Obs. *Urocystis* *Ranunculos Anemonasque* varias colens ab *U. pompholygode typica*, *Helleboros* colente discerni non potest.

700. *Tilletia caries* Tulasne. var.  $\beta$  *Agrostidis* Awd.

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F. T. Kützing, *Tabulae phycologicae*, oder Abbildungen der Tange. Band XIV. T. 1—50. Text bis T. 68. Fortsetzung der Gattung *Polysiphonia* mit folgenden neuen Arten:

*Polysiphonia bulbosa*. (Suhr in litt.) *P. crassiuscula*, ramosissima, basi tumida, stipite brevi tenui, ramis ramulisque alternis subtilibus; articulis diametro plerumque duplo longioribus, 4siphoneis, superioribus nudis, inferioribus corticatis; penicillis terminalibus tenerrimis. In mari baltico: Suhr!

*Polysiphonia Patersonis*. (Sonder in *Linnaea* XXVI. 4.) *P. pollicaris*, setacea, gracilis, erecta, ramosa; ramis alternis inaequalibus, interdum fastigatis; ramellis secundariis (carpocloniis) numerosis, parvis, spinescentibus subramosis fructiferis; articulis omnibus ecorticatis (nudis), primariis 8siphoneis, diametro subaequalibus, ramellorum brevioribus. Cap Paterson.



*Polysiphonia leptoclada.* (Mont. Crypt. guyan.) P. uncialis et ultra, setacea, erecta, ramosa; ramulis alternis alterne bi-tripinnatis, basi 4-, apicem versus monosiphoneis; articulis primariis nudis, 5—6siphoneis, diametro parum brevioribus, superioribus diametro æqualibus, monosiphoneis, rigidulis. Guyana: Montagne.

*Polysiphonia Harveyi.* (Bailey in litt.) P. uncialis et ultra, setacea; ramis vagis patentibus alternis, ubique obsessis ramellis ramulosis spinescentibus; articulis diametro æqualibus, 4—6siphoneis. Stonington. Connecticut: Bailey.

*Polysiphonia funebris.* (De Notaris in herb. Lenormand.) P. parvula, cespitosa, intricata, trichomatibus capillaribus, repentibus; ramis verticalibus brevibus subbipinnatis; articulis 4—5siphoneis, diametro subæqualibus vel parum brevioribus. Genua.

*Polysiphonia spinescens.* (Mont. Sylloge Crypt. 423.) P. oligosiphonia, trichomate primario basi repente, tenui, flaccido, irregulariter ramoso; ramis virgatis, ramulos breves patentis spiniformes gerentibus; articulis diametro æqualibus, 4siphoneis; geniculis infimis nodulosis. Guyana: Montagne.

*Polysiphonia prorepens.* (Harv.) P. minutissima, parasitica, dense tomentosa; trichomatibus arcte adpressis, crassiusculis, ubique obsessis ramulis densis, simplicibus, rigidis, apice acutis hamatis; articulis 9—10siphoneis, brevissimis, diametro subtriplo brevioribus. — Ad algam cartilagineam parasitica. King George's Sound: Harvey.

*Polysiphonia implexa.* (Hook. et Harv.) P. parasitica, parva, capillaris, cespitosa; trichomatibus basi repentibus; ramis bipinnatis, pinnulis utrinque attenuatis deorsum in carpoclonia transmutatis, nec piliferis; articulis oligosiphoneis, diametro æqualibus. King George's Sound: Harvey.

*Polysiphonia scopulorum.* (Harv.) P. cespitosa, parva, capillaris; trichomatibus erectis, rigidulis, carpocloniis plus minusve elongatis, utrinque attenuatis, inferioribus gracilibus, superioribus penicillo parvulo ornatis. „Fremantle. Western Australia“: Harvey.

*Polysiphonia vagabunda.* (Harv.) P. parvula, pallide rubiginosa, intricata, subtomentosa; trichomatibus decumbentibus, tenuissimis, vage ramosissimis, ramis divaricatis, alternis in apicem sensim attenuatis, nec piliferis, articulis oligosiphoneis, diametro subæqualibus, vel parum brevioribus, primariis granuloso-punctatis. „Port Arthur. Van Diemens Land“: Harvey.

*Polysiphonia filipendula.* (Harv.) P. parva, repens, secunda, coccinea; radiculis gracilibus, fine globuloso-peltatis, multifidis; ramulis fructiferis secundis, junioribus subtiliter peni-



cillatis; articulis primariis diametro sesquolongioribus, ramulorum æqualibus, 6—8siphoneis. „Port Fairy. Victoria“ Harvey.

*Polysiphonia Calothrix.* (Harv.) *P. densissime cespitosa*, repens, secunda, saturate purpureo-violacea; radiculis densis, subtilibus; ramulis fructiferis secundis, junioribus subtilissime penicillatis; articulis primariis brevissimis, diametro 2—3 plo brevioribus, ramulorum diametro æqualibus vel parum longioribus, omnibus fere 9—10siphoneis. „King George's Sound.“ Harvey.

*Polysiphonia pectinata* (Harv.) *P. repens*, secunda, purpureo-violacea; ramulis junioribus maxime circinatis, apice subtilissime penicillatis; articulis primariis pellucidis, hyalinis, diametro duplo longioribus, ramorum plerumque diametro æqualibus, omnibus 8siphoneis. „King George's Sound.“ Harvey.

*Polysiphonia neglecta.* (Harv.) *P. cespitoso-fasciculata*, capillaris, saturate purpureo-violacea; trichomate primario basi repente, ramis primariis erectis, ramulosis, ramulis inferioribus patentibus, superioribus erectis, apice non piliferis; articulis oligosiphoneis, diametro sesqui-vel subduplo longioribus, geniculis inferioribus tumidulis. „King George's Sound.“ Harvey.

*Polysiphonia amoena.* (Sonder. herb.) *P. coccinea*, erecta, 2—3uncialis, ramosissima, ramis erectis, apice fastigato-corymbosis, dichotomis, apicibus tenuissimis, gracilibus, nec penicilliferis, interdum in pilum subtilissimum transientibus; articulis oligosiphoneis, primariis nudis, diametro 3—4 plo longioribus, ramorum sensim brevioribus, supremis diametro subæqualibus. „Port Philipp“: Dr. Ferd. Müller.

*Polysiphonia infestans.* (Harv.) *P. violaceo-purpurascens*, subsetacea, laxè ramosa; ramis ramulisque patentibus, fructiferis utrinque attenuatis elongatis; articulis oligosiphoneis, hyalinis, primariis diametro æqualibus, ramulorum superioribus brevioribus; antheridiis maximis, oblongis, breviter pedicellatis. „King George's Sound.“ Harvey.

*Polysiphonia Tongatensis.* (Harv.) *P. major*, ramosissima, basi dichotoma, ramis inferioribus setaceis patentibus, superioribus capillaribus, gracilibus, erectis, apice obsolete penicilliferis; articulis infimis supremisque diametro æqualibus, intermediis diametro sesqui-vel duplo longioribus; geniculis inferioribus tumidis. „Friendly Island.“ Harvey.

*Polysiphonia Olneyi.* (Harv.) *P. major*, violaceo-purpurascens, basi subdichotoma, deinde ramosissima, ramis ramulisque alternis densissimis; carpoconiis gracilibus utrinque attenuatis; articulis oligosiphoneis, non corticatis, infimis diametro duplo brevioribus, superioribus diametro æqualibus vel parum longioribus; geniculis pellucidis non elevatis. „Providence. Rhode J.“ Harvey.



*Polysiphonia Binneyi.* (Harv.) P. major, setacea, fuscens, pulchre tripinnata, pinnulis ultimis apice penicilliferis, carpocloniis minoribus oligophoris, utrinque attenuatis; articulis non corticatis, oligosiphoneis, diametro brevioribus; geniculis pellucidis, inferioribus tumidulis. „Key West.“ Harvey.

*Polysiphonia variabilis.* (Harv.) P. major, setacea, tripinnata, jugamento primario flexuoso, pinnulis terminalibus fastigato-corymbosis; nec penicilliferis, carpocloniis validioribus utrinque attenuatis; articulis non corticatis, oligosiphoneis, diametro subæqualibus, siphonibus sæpe polygonis, utroque sine arcte et oblique conjunctis. „New-Zeeland. Banks peninsula. March. 1849.“ Harvey.

*Polysiphonia Blandi.* (Harv.) P. major, setacea, gracilis, dichotoma; ramis erectis, inferne elongatis, apice dense corymboso-fastigatis, supremis in carpoclonia transmutatis, penicilliferis; articulis inferioribus diametro subduplo longioribus, superioribus æqualibus. „Western Port. Victoria.“ Harvey.

*Polysiphonia cæspitula.* (Sonder.) P. minor, setacea, rigida, bipinnata, pinnulis apice penicilliferis; articulis non corticatis, brevissimis, interdum obsoletis, 8 siphoneis, siphonibus rotundato polygonis, sæpe oblique conjunctis. „Wilson's Promontory, Juni 1853.“ Dr. Ferd. Müller.

*Polysiphonia forcipata.* (Harv.) P. minor, setacea, valida, irregulariter dichotoma, hinc inde ramulo laterali instructo; apicibus forcipatis clausis; articulis non corticatis, 5 siphoneis, brevissimis; siphonibus validis, dilatatis. „Fremantle. Western Australia.“ Harvey.

*Polysiphonia fracta.* (Harv.) P. subsetacea, rigidula, divaricato et vage ramosa, ramulis patentissimis spinescentibus, subdistantibus ubique obsessis; articulis non corticatis, 4 siphoneis, diametro æqualibus, supremis parum brevioribus. „Key West. Florida.“ Harvey.

*Polysiphonia Binderi.* (Sonder.) P. mediocris subsetacea, irregulariter ramosa, ramis plus minusve elongatis, sæpe secundis, a basi ad apicem usque villosis; pilis monosiphoneis simplicibus; articulis non corticatis, oligosiphoneis diametro æqualibus, ad genicula piliferis. La Guayro: Dr. Tams.

*Polysiphonia spinosissima.* (Harv.) P. major, ultra setacea, alterne ramosa, ubique dense ramelloso-villosa, ramellis spiniformibus, penicilliferis; articulis non corticatis, 7 siphoneis, diametro æqualibus. „Port Fairy. Victoria.“ Harvey.

*Polysiphonia Calodictyon.* (Harv.) P. mediocris, ultra setacea, rigida, subvage ramosa, ramis ramulisque acutis patentibus, ubique obtectis ramellis brevissimis reticulatim ramulosis; articulis nudis oligosiphoneis, diametro æqualibus. — „Friendly Islands.“ Harvey.



*Polysiphonia Thwaitesii.* (Harv.) *P. mediocris*, ultra setacea, rigida, trichomatibus numerosis erectis, parce ramosis, acutis, ubique oblectis ramellis pinnatis, subdistantibus, acutis, non penicilliferis; articulis non corticatis brevissimis, 10siphoneis; siphonibus primariis rotundato-polygonis, ramellorum oblongis. Ceylon: Harvey.

*Polysiphonia Marrowii.* (Harv.) *P. elongata*; pedalis, ultra setacea; trichomatibus primariis funiculatim contortis; ramis lateralibus capillaribus ramulosis spiciferis; spiculis e carpocloniis densis acutis formatis; articulis nudis, oligosiphoneis, primariis diametro duplo longioribus; ramellorum diametro subæqualibus, vel parum brevioribus. „Hakodadi. Japan.“ Harvey.

*Polysiphonia angustissima* (Kg. nov. sp.) *P. mediocris*, tenuissima, ramosissima, ramis ramulisque erectis gracilibus, non penicilliferis; articulis non corticatis, inferioribus diametro 3—4longioribus, superioribus duplo longioribus, supremis æqualibus, omnibus oligosiphoneis; geniculis pellucidis, inferioribus tumidulis. „Brighton beach, Port Philipp.“ Harvey.

*Polysiphonia Argus.* (Kg. nov. sp.) *P. major*, ultra setacea, valida, rigida; ramis ramulisque alternis ubique vestitis ramulis subsetaceis spiniformibus patentissimis rigidis, in apice ramulorum dense approximatis et in carpoclonia transientibus; articulis non corticatis, 10siphoneis, brevissimis. Color purpureo-aurantiacus. „Western Port. Victoria.“ Harvey.

*Polysiphonia spiculifera.* (Zanardini in herb. Sonder.) *P. mediocris*, setacea, ramis virgatis alternis spiculiferis; spiculis e carpocloniis approximatis, apice penicillatis, formatis; articulis non corticatis, 24siphoneis, primariis diametro parum longioribus, ramulorum brevioribus. *P. Kützingii* Menegh in herb. Sonder. Dalmatia: Zanardini.

*Polysiphonia stuposa.* (Zanard.) *P. capillaris* vel subsetacea, maxime intricata, rigidula; ramis ramulisque patentibus, apice nec penicilliferis; articulis non corticatis 6—8siphoneis, diametro æqualibus vel duplo longioribus; geniculis primariis tumidulis. Dalmatia: Sandri.

*Polysiphonia expansa.* (Zanard.) *P. capillaris*, basi subsetacea, ramosissima; ramis ramulisque gracilibus teneris; articulis non corticatis, oligosiphoneis, diametro 2—3plo longioribus; geniculis inferioribus tumidulis. Dalmatia: Sandri.

*Polysiphonia nebulosa.* (Zanard.) *P. capillaris* laxè ramosa, ramis patentibus ramuliferis, ramulis penicillatis; articulis non corticatis oligosiphoneis, infimis diametro 6plo, mediis 4plo, superioribus 2plo longioribus, ramulorum diametro subæqualibus; geniculis inferioribus leviter tumidulis. Dalmatia: Sandri.



*Polysiphonia parvula.* (Suhr. in herb. Sonder. — *P. irregularis* Zanard.) *P. parasitica parvula*, repens, intricata, capillaris; radiculis numerosis brevibus, fine peltatis; ramis patentibus ramulosis, junioribus leviter hamatis, adultioribus rectis, apice nec penicilliferis; articulis non corticatis 5siphoneis, diametro plerumque parum brevioribus, vel subæqualibus. In *Rhodomela pinastroide* ad Canarias.

*Polysiphonia corallioides.* (Suhr. in herb. Sonder.) *P. setacea*, mediocris, inferne radicans; ramis erectis, distantibus, virgatis apice subramulosis, nec penicilliferis; articulis non corticatis, 24siphoneis, diametro æqualibus; tetrachocarpis in duplicem seriem longitudinaliter ordinatis. *Tanger*: Schousbœ.

*Polysiphonia codiicola.* (Zanard.) *P. parvula parasitica*, basi repens; ramis primariis virgatis paniculatim ramulosis, ramulis in carpoclonia transientibus, apice obsolete penicilliferis; articulis non corticatis, oligosiphoneis, diametro æqualibus, vel parum longioribus. *Dalmatia*: Sandri.

*Polysiphonia hispida.* (Zanard.) *P. setacea*, laxè ramosa, ramis ramulisque patentibus, ubique ramelliferis, ramellis patentibus brevibus piliferis; articulis oligosiphoneis nudis, inferioribus diametro æqualibus, superioribus 2—3plo longioribus; geniculis inferioribus tumidis. *Dalmatia*: Sandri.

*Polysiphonia impolita.* (Zanard.) *P. crassiuscula*, mollis, utrinque attenuata, ramis fastigato-multifidis penicilliferis; articulis oligosiphoneis, diametro æqualibus, primariis obsolete corticatis, cellulis corticalibus in series distantes longitudinales conjunctis; siphonibus latiusculis. *Dalmatia*: Sandri.

*Polysiphonia macrocephala.* (Zanard.) *P. mediocris*, setacea, irregulariter ramosa; carpocloniis validiusculis flexuosis, apice capitulo filorum moniliformium, latere pilis dichotomis tenerrimis ornatis; articulis nudis, 24siphoneis, diametro æqualibus. *Dalmatia*: Sandri.

*Polysiphonia multicapsularis.* (Zanard.) *P. crassiuscula*, mediocris, mollis, ramis paucis ramulosis, ramulis laxè dichotomis fructiferis, apice penicillatis; articulis diametro æqualibus, vel parum longioribus, oligosiphoneis, inferioribus obsolete corticatis; siphonibus latiusculis. *Dalmatia*: Sandri.

*Polysiphonia rufolanosa.* (Harv.) *P. mollis*, gelatinosa, intricata, roseo-coccinea; ramis vagis elongatis patentissimis, apice non piliferis; articulis oligosiphoneis, nudis, diametro subæqualibus, geniculis leviter contractis. „*King George's Sound*“. Harvey.

(Fortsetzung folgt.)



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