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THE
FUNGI OF NORFOLK.

BY

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THE FUNGI OF NORFOLK.

THE Rev. G. Munford, of East Winch, in 1864 published a list of seventy-two species of fungi found in Norfolk. On the 29th October, 1872, the present writer communicated to the Norfolk and Norwich Naturalists' Society a list of eight hundred species; to this, during the twelve years that have since elapsed, nearly eight hundred more have been added, so that at the present time between fifteen and sixteen hundred species have been recorded in the county. This in itself indicates what an extensive and varied district is embraced. Many rare and interesting fungi have been from time to time encountered in Norfolk, some of which only appear at long intervals. Thus, *Graster coliformis* was figured by Dickson in 1785 from specimens found at Gillingham and Earsham, but, until 1880, when Mr. P. Hebgin was fortunate enough to find it at Hillington, it was not again met with in the county. *Torrubia capitata* is another instance; this was found at Holt by the lady of the Rev. Robert Francis, and sent to Sowerby, by whom it was figured in his "English Fungi," which was published in 1779-1809. No specimen was again seen of it in Norfolk until 1879, when the Rev. Canon Du Port met with a specimen in Hockering Wood. Towards the end of the last century, Mr. Woodward found *Batarrea phalloides* near Norwich, and some time prior to 1836, the late Dr. J. W. Hooker found a specimen near Stoke, but since then no one has been fortunate enough to find it, although it is to be hoped it will be rediscovered some day in Norfolk.

The great length of the list itself, although only a bare enumeration of the names of the Norfolk fungi, precludes any introductory and explanatory remarks which it would have been desirable otherwise to have given; but so important are many of these organisms, low though they be in the vegetable kingdom from an economic point of view including as they do the wheat mildew and the potato blight, on the one hand, the yeast plant and numerous esculent species on the other, that it is a matter of certainty they will receive more attention from naturalists in the future than they have had given them in the past.

I have to thank my friends the Rev. Canon Du Port, of Mattishall, Mr. Frank Norgate, of Sparham, and Mr. J. Harvey Bloome, of Castleacre, for their kindness in furnishing me with lists of their additions to the 1872 list.

A LIST OF THE FUNGI KNOWN TO OCCUR IN THE
COUNTY OF NORFOLK.

DIVISION I.—SPORIFERA.

FAMILY I.—HYMENOMYCETES.

ORDER I.—AGARICINI.

Agaricus.

- „ (*Amanita*) *phalloides*, Fr.
 „ „ *mappa*, Fr.
 „ „ *muscarius*, L.
 „ „ *pantherinus*, D. C.
 „ „ *excelsus*, Fr.
 „ „ *strobiliformis*, Fr.
 „ „ *rubescens*, P.
 „ „ *nitidus*, Fr.
 „ „ *asper*, Fr.
 „ „ *vaginatus*, Bull.
 „ „ *adnatus*, Smith.
 „ (*Lepiota*) *procerus*, Scop.
 „ „ *rachodes*, Vitt.
 „ „ *friesii*, Lasch.
 „ „ *acutesquamosus*, Weinm.
 „ „ *badhami*, B. and Br.
 „ „ *metulesporus*, B. and Br.
 „ „ *cristatus*, Fr.
 „ „ *vittadini*, Moretti.
 „ „ *cepæstipes*, Sow.
 „ „ *carcharias*, Pers.
 „ „ *granulosus*, Batsch.
 „ „ *cinnabarinus*, A. and S.
 „ „ *polystictus*, Berk.
 „ „ *seminudus*, Larch.
 „ „ *medullatus*, Fr.
 „ (*Armillaria*) *mucidus*, Schrad.
 „ „ *melleus*, Vahl.
 „ (*Tricholoma*) *sejunctus*, Sow.
 „ „ *portentosus*, Fr.
 „ „ *flavo-brunneus*, Fr.
 „ „ *albo-brunneus*, Pers.
 „ „ *resplendens*, Fr.
 „ „ *rutilans*, Schæff.
 „ „ *ustalis*, Fr.
 „ „ *scalpturatus*, Fr.
 „ „ *columbetta*, Fr.
 „ „ *imbricatus*, Fr.
 „ „ *vaccinus*, P.
 „ „ *terreus*, Schæff.
 „ „ *saponaceus*, Fr.
 „ „ *macrorhizus*, Lasch.
 „ „ *atrocinereus*, Fr.

Agaricus.

- „ (*Tricholoma*) *cuneifolius*, Fr.
 „ „ *sulphureus*, Fr.
 „ „ *lascivus*, Fr.
 „ „ *inamænus*, Fr.
 „ „ *carneus*, Bull.
 „ „ *albus*, Schæff.
 Var. *cæsareatus*.
 „ „ *gambosus*, Fr.
 „ „ *personatus*, Fr.
 „ „ *nudus*, Bull.
 „ „ *panæolus*, Fr.
 „ „ *grammopodius*, Fr.
 „ „ *melaleucus*, P.
 „ „ *brevipes*, Bull.
 „ „ *humilis*, Fr.
 „ „ *excisus*, Fr.
 „ „ *subpulverulentus*, Pers.
 „ „ *sordidus*, Fr.
 „ (*Clitocybe*) *nebularis*, Batsch.
 „ „ *clavipes*, Pers.
 „ „ *hirneolus*, Fr.
 „ „ *odorus*, Bull.
 „ „ *phyllophilus*, Fr.
 „ „ *candicans*, Pers.
 „ „ *dealbatus*, Sow.
 „ „ *fumosus*, P. Var. *polius*.
 „ „ *maximus*, Fr.
 „ „ *giganteus*, Fr.
 „ „ *infundibuliformis*, Schæff.
 „ „ *trullæformis*, Fr.
 „ „ *geotrupus*, Bull.
 „ „ *incilis*, Fr.
 „ „ *inversus*, Scop.
 „ „ *flaccidus*, Sow.
 „ „ *cyathiformis*, Fr.
 „ „ *brumalis*, Fr.
 „ „ *expallens*, Pers.
 „ „ *metachrous*, Fr.
 „ „ *fragrans*, Sow.
 „ „ *laccatus*, Scop.
 „ (*Collybia*) *radicatus*, Relh.
 „ „ *longipes*, Bull.
 „ „ *platyphyllus*, Fr.
 „ „ *semitalis*, Fr.
 „ „ *fusipes*, Bull.
 „ „ *maculatus*, A. and S.
 „ „ *fodiens*, Kalch.
 „ „ *butyraceus*, Bull.

Agaricus.

- „ (*Collybia*) *velutipes*, Curt.
 „ „ *stipitarius*, Fr.
 „ „ *confluens*, P.
 „ „ *distortus*, Fr.
 „ „ *ingratus*, Schum.
 „ „ *xanthopus*, Fr.
 „ „ *vertirugis*, Cooke.
 „ „ *conigenus*, P.
 „ „ *tuberosus*, Bull.
 „ „ *dryophilus*, Bull.
 „ „ *exsculptus*, Fr.
 „ „ *tenacellus*, P.
 „ „ *atratus*, Fr.
 „ (*Mycena*) *rosellus*, Fr.
 „ „ *purus*, P.
 „ „ *iris*, Berk.
 „ „ *flavo-albus*, Bolt.
 „ „ *ammoniacus*, Fr.
 „ „ *lacteus*, P.
 „ „ *zephyrus*, Fr.
 „ „ *rugosus*, Fr.
 „ „ *galericulatus*, Scop.
 „ „ *polygrammus*, Bull.
 „ „ *alcalinus*, Fr.
 „ „ *filipes*, Bull.
 „ „ *speireus*, Fr.
 „ „ *acicula*, Schæff.
 „ „ *sanguineolentus*, A. & S.
 „ „ *galopus*, Schrad.
 „ „ *epipterygius*, Scop.
 „ „ *vulgaris*, P.
 „ „ *citrinellus*, P.
 „ „ *stylobates*, P.
 „ „ *tenerrimus*, Berk.
 „ „ *discopus*, Lev.
 „ „ *corticola*, Schum.
 „ „ *setosus*, Sow.
 „ „ *capillaris*, Schum.
 „ (*Omphalia*) *pyxidatus*, Bull.
 „ „ *leucophyllus*, Fr.
 „ „ *hydrogrammus*, Fr.
 „ „ *cæspitosus*, Bolt.
 „ „ *sphagnicola*, Berk.
 „ „ *muralis*, Sow.
 „ „ *umbelliferus*, L.
 „ „ *hepaticus*, Batsch.
 „ „ *demissus*, Fr.
 „ „ *umbelliferus*, L.
 „ „ Var. *viride*, Fl. Dan.
 „ „ *griseus*, Fr.
 „ „ *fibula*, Bull.
 „ „ *setipes*, Fr.
 „ „ *helvelloides*, Bull.
 „ (*Pleurotus*) *corticatus*, Fr.

Agaricus.

- „ (*Pleurotus*) *dryinus*, P.
 „ „ *ulmarius*, Bull.
 „ „ *subpalmatus*, Fr.
 „ „ *lignatilis*, Pers.
 „ „ *ostreatus*, Jacq.
 „ „ *enosmus*, Berk.
 „ „ *salignus*, Fr.
 „ „ *mitis*, Pers.
 „ „ *septicus*, Fr.
 „ „ *mastrucatus*, Fr.
 „ „ *cyphellæformis*, Berk.
 „ „ *applicatus*, Batsch.
 „ (*Volvaria*) *bombycinus*, Schæff.
 „ „ *taylorii*, Berk.
 „ „ *gloiocephalus*, Fr.
 „ „ *parvulus*, Weinm.
 „ (*Pluteus*) *cervinus*, Schæff.
 „ „ *salicinus*, Pers.
 „ „ *petasatus*, Berk.
 „ „ *nanus*, P.
 „ „ *phlebophorus*, Ditm.
 „ „ *leoninus*, Schæff.
 „ „ *chrysophæus*, Schæff.
 „ (*Entoloma*) *sinuatus*, Fr.
 „ „ *lividus*, Bull.
 „ „ *placenta*, Batsch.
 „ „ *bloxami*, Berk.
 „ „ *jubatus*, Fr.
 „ „ *clypeatus*, L.
 „ „ *rhodopolius*, Fr.
 „ „ *costatus*, Fr.
 „ „ *sericeus*, Bull.
 „ „ *nidorosus*, Fr.
 „ „ *persoonianus*, Ph. and Pl.
 „ (*Clitopilus*) *prunulus*, Scop.
 „ „ *mundulus*, Lasch.
 „ „ *undatus*, Fr.
 „ „ *cretatus*, B. and Br.
 „ (*Leptonia*) *chalybæus*, P.
 „ „ *incanus*, Fr.
 „ „ *serrulatus*, Pers.
 „ „ *euchrous*, Pers.
 „ „ *asperellus*, Fr.
 „ (*Nolanea*) *pascuus*, Pers.
 „ „ *pisciodorus*, Cés.
 „ „ *piceus*, Kalchb.
 „ (*Eccilia*) *rhodocylix*, Lasch.
 „ (*Claudopus*) *variabilis*, Pers.
 „ „ *depluens*, Batsch.
 „ (*Pholiota*) *terrigenus*, Fr.
 „ „ *Cookei*, Fr.
 „ „ *erebius*, Fr.
 „ „ *togularis*, Bull.
 „ „ *durus*, Bolt.

Agaricus.

- „ (*Pholiota*) *præcox*, P.
 „ „ *pubidicus*, Bull.
 „ „ *ægerita*, Fr.
 „ „ *capistratis*, Cooke.
 „ „ *heteroclitus*, Fr.
 „ „ *squarrosus*, Müll.
 „ „ *spectabilis*, Fr.
 „ „ *aurivellus*, Batsch.
 „ „ *adiposus*, Fr.
 „ „ *mutabilis*, Schæff.
 „ „ *marginatus*, Batsch.
 „ „ *unicolor*, Fl. Dan.
 „ „ *pumilus*, Fr.
 „ „ *mycenoides*, Fr.
 „ (*Inocybe*) *lanuginosus*, Bull.
 „ „ *pyriodorus*, Pers.
 „ „ *scaber*, Müll.
 „ „ *lacerus*, Fr.
 „ „ *bongardii*, Weinm.
 „ „ *obscurus*, P.
 „ „ *rimosus*, Bull.
 „ „ *asterospora*, Quel.
 „ „ *cæsariatus*, Fr.
 „ „ *geophyllus*, Sow.
 „ „ *trechisporus*, Berk.
 „ „ *tricholoma*, A. and S.
 „ (*Hebeloma*) *fastibilis*, Fr.
 „ „ *firmus*, Pers.
 „ „ *versipellis*, Fr.
 „ „ *mesophæus*, Fr.
 „ „ *sinapizans*, Fr.
 „ „ *crustuliniformis*, Bull.
 „ „ *subtestaceus*, Basch.
 „ „ *longicaudus*, Pers.
 „ „ *petiginosus*, Fr.
 „ (*Flammula*) *lentus*, Fr.
 „ „ *carbonarius*, Fr.
 „ „ *alnicola*, Fr.
 „ „ *conissans*, Fr.
 „ „ *inopus*, Fr.
 „ „ *sapineus*, Fr.
 „ „ *liquiritiæ*, Pers.
 „ (*Naucoria*) *hamadryas*, Fr.
 „ „ *cucumis*, P.
 „ „ *anguineus*, Fr.
 „ „ *melinoides*, Fr.
 „ „ *pediades*, Fr.
 „ „ *semiorbicularis*, Bull.
 „ „ *scorpioides*, Fr.
 „ „ *erinaceus*, Fr.
 „ (*Galera*) *tener*, Schæff.
 „ „ *sparteus*, Fr.
 „ „ *pygmæo-affinis*, Fr.
 „ „ *hypnorum*, Batsch.

Agaricus.

- „ (*Galera*) *sphagnorum*, Pers.
 „ (*Tubaria*) *furfuraceus*, Pers.
 „ (*Crepidotus*) *alveolus*, Lasch.
 „ „ *mollis*, Schæff.
 „ „ *rubi*, Berk.
 „ (*Psalliota*) *arvensis*, Schæff.
 „ „ *campestris*, L.
 „ „ *sylvaticus*, Schæff.
 „ „ *echinatus*, Roth.
 „ (*Stropharia*) *æruiginosus*, Curt.
 „ „ *inunctus*, Fr.
 „ „ *obturatus*, Fr.
 „ „ *albo-cyaneus*, Desm.
 „ „ *squamosus*, Fr.
 „ „ *merdarius*, Fr.
 „ „ *stercorarius*, Fr.
 „ „ *semiglobatus*, Batsch.
 „ (*Hypholoma*) *sublateritius*, Fr.
 „ „ *capnoides*, Fr.
 „ „ *candolleanus*, Fr.
 „ „ *pyrotrichus*, Holm.
 „ „ *fascicularis*, Hud.
 „ „ *lacrymabundus*, Fr.
 „ „ *velutinus*, P.
 „ „ *appendiculatus*, Bull.
 „ „ *egenulus*, B. and Br.
 „ „ *leucotephrus*, B. and Br.
 „ (*Psilocybe*) *ericeus*, Pers.
 „ „ *udus*, Pers.
 „ „ *bullaceus*, Bull.
 „ „ *semilanceatus*, Fr.
 „ „ *comptus*, Fr.
 „ „ *spadiceus*, Schœff.
 „ „ *feniseccii*, P.
 „ (*Psathyra*) *conopileus*, Fr.
 „ „ *bifrons*, Berk.
 „ „ *corrugis*, P.
 „ „ *spadiceo-griseus*, Schæff.
 „ (*Panecolus*) *separatus*, L.
 „ „ *fimiputris*, Bull.
 „ „ *phalænarum*, Fr.
 „ „ *papilionaceus*, Fr.
 „ (*Psathyrella*) *gracilis*, Fr.
 „ „ *atomatus*, Fr.
 „ „ *crenatus*, Lasch.
 „ „ *disseminatus*, P.
 „ *Coprinus comatus*, Fr.
 „ „ *sterquilinus*, Fr.
 „ „ *atramentarius*, Fr.
 „ „ *niveus*, Fr.
 „ „ *micaceus*, Fr.
 „ „ *radians*, Fr.
 „ „ *lagopus*, Fr.
 „ „ *stercorarius*, Fr.

Coprinus ephemerus, Fr.
 „ *plicatilis*, Fr.
 „ *hemerobus*, Fr.
Bolbilius boltoni, Fr.
 „ *fragilis*, Fr.
 „ *titubans*, Fr.
Cortinarius.
 „ (*Phlegmacium*) *largus*, Fr.
 „ „ *multiformis*, Fr.
 „ „ *cumatilis*, Fr.
 „ „ *porphyropus*, Fr.
 „ „ *sebaceus*, Fr.
 „ „ *russus*, Fr.
 „ (*Myxacium*) *collinitus*, Fr.
 „ „ *mucifluus*, Fr.
 „ „ *elatior*, Fr.
 „ „ *delibutus*, Fr.
 „ „ *cristallinus*, Fr.
 „ (*Inoloma*) *camphoratus*, Fr.
 „ „ *pholideus*, Fr.
 „ (*Dermocybe*) *ochroleucus*, Fr.
 „ „ *diabolicus*, Fr.
 „ „ *anomalus*, Fr.
 „ „ *spilomeus*, Fr.
 „ „ *cinnamoneus*, Fr.
 „ „ *sanguineus*, Wulf.
 „ „ *raphanoides*, Fr.
 „ (*Telamonia*) *bulbosus* Fr.
 „ „ *torus*, Fr.
 „ „ *everneus*, Fr.
 „ „ *hinnuleus*, Fr.
 „ „ *hemitrichus*, Fr.
 „ „ *paleaceus*, Fr.
 „ (*Hydrocybe*) *armeniacus*, Fr.
 „ „ *castaneus*, Fr.
 „ „ *rigens*, Fr.
 „ „ *scandens*, Fr.
 „ „ *decipiens*, Fr.
 „ „ *fasciatus*, Fr.
Gomphidius glutinosus, Fr. Var. *roseus*.
 „ *viscidus*, Fr.
 „ *gracilis*, Berk.
Paxillus involutus, Fr.
 „ *leptopus*, Fr.
 „ *atro-tomentosus*, Fr.
 „ *panuoides*, Fr.
Hygrophorus cossus, Fr.
 „ *hypothejus*, Fr.
 „ *olivaceo-albus*, Fr.
 „ *pratensis*, Fr.
 „ *virgineus*, Fr.
 „ *niveus*, Fr.
 „ *russo-coriaceus*, B. and Br.

Hygrophorus fornicatus, Fr.
 „ *mucronellus*, Fr.
 „ *ceraceus*, Fr.
 „ *coccineus*, Fr.
 „ *miniatus*, Fr.
 „ *puniceus*, Fr.
 „ *conicus*, Fr.
 „ *calyptræformis*, Berk.
 „ *chlorophanus*, Fr.
 „ *psittacinus*, Fr.
 „ *unguinus*, Fr.
 „ *murinaceus*, Fr.
Lactarius scrobiculatus, Fr.
 „ *controversus*, Fr.
 „ *torminosus*, Fr.
 „ *turpis*, Fr.
 „ *insulsus*, Fr.
 „ *blennius*, Fr.
 „ *trivialis*, Fr.
 „ *uvulus*, Fr.
 „ *flexuosus*, Fr.
 „ *pyrogalus*, Fr.
 „ *piperatus*, Fr.
 „ *pargamenus*, Fr.
 „ *vellereus*, Fr.
 „ *deliciosus*, Fr.
 „ *pallidus*, Fr.
 „ *quietus*, Fr.
 „ *thejogalus*, Fr.
 „ *cremor*, Fr.
 „ *rufus*, Fr.
 „ *glyciosmus*, Fr.
 „ *volemus*, Fr.
 „ *serifluus*, Fr.
 „ *mitissimus*, Fr.
 „ *subdulcis*, Fr.
Russula nigricans, Fr.
 „ *delica*, Fr.
 „ *adusta*, Fr.
 „ *furcata*, Fr.
 „ *rosacea*, Fr.
 „ *lepida*, Fr.
 „ *virescens*, Fr.
 „ *rubra*, Fr.
 „ *sardonina*, Fr.
 „ *xerampelina*, Fr.
 „ *vesca*, Fr.
 „ *cyanoxantha*, Fr.
 „ *heterophylla*, Fr.
 „ *consobrina*, Fr.
 „ *fætens*, Fr.
 „ *fellea*, Fr.
 „ *queletii*, Fr.
 „ *emetica*, Fr.

- Russula ochroleuca*, Fr.
 „ *fragilis*, Fr.
 „ *integra*, Fr.
 „ *decolorans*, Fr.
 „ *alutacea*, Fr.
 „ *chamæleontina*, Fr.
Cantharellus cibarius, Fr.
 „ *aurantiacus*, Fr.
 „ *tubæformis*, Fr.
 „ *lobatus*, Fr.
Nyctalis parasitica, Fr.
Marasmius urens, Fr.
 „ *peronatus*, Fr.
 „ *oreades*, Fr.
 „ *erythropus*, Fr.
 „ *impudicus*, Fr.
 „ *ramealis*, Fr.
 „ *cauticinalis*, Fr.
 „ *rotula*, Fr.
 „ *graminum*, B. and Br.
 „ *epiphyllus*, Fr.
Lentinus lepideus, Fr.
 „ *vulpinus*, Fr.
 „ *cochleatus*, Pers.
Panus torulosus, Fr.
 „ *stypticus*, Fr.
Xerotus degener, Fr.
Schizophyllum commune, Fr.
Lenzites betulina, Fr.
 „ *flaccida*, Fr.
 „ *sepiaria*, Fr.

ORDER II. POLYPOREI.

- Boletus impolitus*, Fr.
 „ *satanus*, Lenz.
 „ *luridus*, Fr.
 „ *erythropus*, Pers.
 „ *verispellis*, Fr.
 „ *scaber*, Fr.
 „ *felleus*, Bull.
Fistulina hepatica, Fr.
Polyporus lentus, Fr.
 „ *schweinitzii*, Fr.
 „ *rufescens*, Fr.
 „ *perennis*, Fr.
 „ *squamosus*, Fr.
 „ *melanopus*, Fr.
 „ *picipes*, Fr.
 „ *varius*, Fr.
 „ *elegans*, Fr. Var. *nummularius*.
 „ *lucidus*, Fr.
 „ *quercinus*, Fr.
 „ *intybaceus*, Fr.
 „ *giganteus*, Fr.
 „ *sulphureus*, Fr.
 „ *salignus*, Fr.
 „ *epileucus*, Fr.
 „ *destructor*, Fr.
 „ *chioneus*, Fr.
 „ *cæsius*, Fr.
 „ *nidulans*, Fr.
 „ *rutilans*, Fr.
 „ *fumosus*, Fr.
 „ *adustus*, Fr.
 „ *amorphus*, Fr.
 „ *hispidus*, Fr.
 „ *cuticularis*, Fr.
 „ *spumeus*, Fr.
 „ *dryadeus*, Fr.
 „ *betulinus*, Fr.
 „ *pallescens*, Fr.
 „ *applanatus*, Fr.
 „ *fomentarius*, Fr.
 „ *igniarius*, Fr.
 „ *radiatus*, Fr.
 „ *ribis*, Fr.
 „ *conchatus*, Fr.
 „ *ulmarius*, Fr.
 „ *fraxineus*, Fr.
 „ *annosus*, Fr.
 „ *radiatus*, Fr.
 „ *versicolor*, Fr.
 „ *abietinus*, Fr.
 „ *ferruginosus*, Fr.
 „ *violaceus*, Fr.
 „ *viridans*, B. and Br.
 „ *terrestris*, Fr.
- Boletus luteus*, L.
 „ *elegans*, Schum.
 „ *flavus*, L.
 „ *laricinus*, Berk.
 „ *granulatus*, L.
 „ *bovinus*, L.
 „ *badius*, Fr.
 „ *sanguineus*, With.
 „ *piepratus*, Bull.
 „ *parasiticus*, Bull.
 „ *variegatus*, Fr.
 „ *sulphureus*, Fr.
 „ *pruinatus*, Fr.
 „ *chrysenteron*, Fr.
 „ *subtomentosus*, Linn.
 „ *pachypus*, Fr. Var. *amarus*.
 „ *edulis*, Bull.
 „ *æstivalis*, Fr.

Polyporus medulla-panis, Fr.
 " *obducens*, Fr.
 " *vulgaris*, Fr.
 " *sanguinolentus*, Fr.
 " *vaporarius*, Fr.
 " *molluscus*, Fr.
 " *vaillantii*, Fr.
 " *farinellus*, Fr.
 " *hybridus*, B. and Br.

Trametes suaveolens, Fr.
 " *gibbosa*, Fr.
 " *rubescens*, Fr.
 " *mollis*, Fr.

Dædalea quercina, P.
 " *unicolor*, Fr.

Merulius corium, Fr.
 " *aureus*, Fr.
 " *serpens*, Tode.
 " *pallens*, Berk.
 " *lacrymans*, Fr.

Solenia ochracea, Hoffm.

ORDER III. HYDNEI.

Hydnum imbricatum, L.
 " *repandum*, L.
 " *compactum*, Fr.
 " *zonatum*, Batsch.
 " *auriscalpium*, L.
 " *coralloides*, Scop.
 " *aureum*, Fr.
 " *ferruginosum*, Fr.
 " *alutaceum*, Fr.
 " *udum*, Fr.
 " *stipatum*, Fr.

Tremellodon gelatinosum, Pers.

Irpex obliquus, Fr.

Radulum orbiculare, Fr.

" *quercinum*, Fr.

Phlebia radiata, Fr.

Grandinia granulosa, Fr.

Odontia fimbriata, Pers.

ORDER IV. AURICULARINI.

Craterellus cornucopioides, Fr.

Thelephora caryophyllea, Fr.

" *clavularis*, Fr.

" *cristata*, Fr.

" *palmata*, Fr.

" *laciniata*, P.

" *byssoides*, P.

Stereum purpureum, Fr.
 " *hirsutum*, Fr.
 " *spadiceum*, Fr.
 " *sanguinolentum*, Fr.
 " *rubiginosa*, Fr.
 " *tabacina*, Fr.
 " *frustulosum*, Fr.
 " *rugosum*, Fr.
 " *pini*, Fr.
 " *acerina*, Fr.

Auricularia mesenterica, Bull.
 " *lobata*, Somm.

Corticium giganteum, Fr.
 " *lacteum*, Fr.
 " *læve*, Fr.
 " *sulphureum*, Fr.
 " *cæruleum*, Fr.
 " *ochraceum*, Fr.
 " *quercinum*, P.
 " *cinereum*, Fr.
 " *incarnatum*, Fr.
 " *nudum*, Fr.
 " *corrugatum*, Fr.
 " *comedens*, Fr.
 " *typhae*, Fcke.
 " *putaneum*, Fr.
 " *sambuci*, P.

Cyphella galeata, Fr.
 " *catilla*, W. G. S.
 " *capula*, Fr.
 " *curreyi*, Berk.

ORDER V. CLAVARIEI.

Sparassis crispa, Fr.

Clavaria botrytis, Pers.

" *amethystina*, Bull.

" *fastigiata*, D.C.

" *muscoides*, L.

" *coralloides*, L.

" *cinerea*, Bull.

" *cristata*, Holmsk.

" *rugosa*, Bull.

" *abietina*, Schum.

" *grisea*, P.

" *stricta*, P.

" *crispula*, Fr.

" *fusiformis*, Sow.

" *inaequalis*, Müll.

" *argillacea*, Fr.

" *vermiculata*, Scop.

" *contorta*, Holmsk.

" *fistulosa*, Fr.

" *incarnata*, Weinm.

Clavaria uncialis, Grev.
Calocera viscosa, Fr.
 „ *cornea*, Fr.
Pterula multifida, Fr.
Typhula erythropus, Fr.
 „ *gyrans*, Fr.
Pistillaria quisquilaris, Fr.

ORDER VI. TREMELLINI.

Tremella foliacea, P.
 „ *mesenterica*, Retz.
 „ *viscosa*, Berk.
 „ *epigæa*, B & Br.
 „ *moriformis*, Eng. Bot.
 „ *albida*, Huds.
 „ *torta*, Willd.

Exidia recisa, Fr.
 „ *glandulosa*, Fr.
Hirneola auricula-judæ, Berk.
Nematelia encephala, Fr.
 „ *virescens*, Corda.
Dacrymyces violaceus, Fr.
 „ *deliquescens*, Dub.
 „ *stillatus*, Nees.
 „ *chrysocomus*, Tul.

FAMILY II. GASTEROMYCETES.

ORDER VII. HYPOGÆI.

Melanogaster ambiguus, Tul.
Hymenogaster luteus, Vitt.
 „ *vulgaris*, Tul.
 „ *citrinus*, Vitt.
 „ *olivaceus*, Vitt.

ORDER VIII. PHALLOIDEI.

Phallus impudicus, Linn.
 „ *iosmos*, Berk.
Cynophallus caninus, Fr.
Clathrus cancellatus, Linn.

ORDER IX. TRICHOGASTRES.

Batarrea phalloides, P.
Tulostoma mammosum, Fr.
Geaster coliformis, P.
 „ *fornicatus*, Fr.
 „ *striatus*, D. C.
 „ *bryantii*, Berk.
 „ *limbatus*, Fr.

Geaster fimbriatus, Fr.
 „ *mammosus*, Chev.
 „ *rufescens*, Fr.
 „ *hygrometricus*, P.
Bovista nigrescens, P.
 „ *plumbea*, P.
Lycoperdon giganteum, Batsch.
 „ *cælatum*, Fr.
 „ *pusillum*, Fr.
 „ *seccatum*, Vahl.
 „ *gemmatum*, Fr.
 „ *pyriforme*, Schæff.
Scleroderma vulgare, Fr.
 „ *bovista*, Fr.
 „ *verrucosum*, P.

ORDER X. MYXOGASTRES.

Lycogala epidendrum, Fr.
Reticularia umbrina, Fr.
Æthaliium septicum, Fr.
Spumaria alba, D. C.
Ptychogaster albus, Corda.
Diderma vernicosum, P.
 „ *globosum*, Fr.
Didymium hemisphericum, Fr.
 „ *squamulosum*, A. & S.
 „ *congestum*, B & Br.
Physarum nutans, P.
 „ var. γ *aureum*.
 „ *album*, Fr.
Badhamia hyalina, Berk.
 „ *utriculosa*, Berk.
Craterium minutum, Fr.
 „ *leucocephalum*, Ditm.
Stemonitis fusca, Roth.
 „ *typhoides*, D. C.
 „ *ovata*, P.
 „ *obtusata*, Fr.
Dictydium umbilicatum, Schrad.
Cribraria argillacea, Pers.
 „ *aurantiaca*, Fr.
Arcyria punicea, P.
 „ *incarnata*, Pers.
 „ *cinerea*, Schum.
 „ *nutans*, Fr.
Trichia fallax, Pers.
 „ *clavata*, P.
 „ *turbinata*, With.
 „ *chryso sperma*, D. C.

Perichæna populina, Fr.
 „ *picea*, B. & Br.

Lycea cylindrica, Fr.
 „ *fragiformis*, Fr.

ORDER XI. NIDULARIACEI.

Cyathus striatus, Hoffm.
 „ *vernicosus*, D. C.

Crucibulum vulgare, Tul.

Sphærobohus stellatus, Tode.

Polyangium vitellinum, Ditm.

FAMILY III. CONIOMYCETES.

ORDER XII. SPHÆRONEMEI.

Leptostroma filicinum, Fr.

„ *juncinum*, Fr.

„ *spireæ*, Fr.

Phoma concentricum, Desm.

„ *hederæ*, Desm.

„ *lingam*, Desm.

„ *subordinaria*, Desm.

„ *depressum*, B. & Br.

„ *destructiva*, Plow.

„ *samarorum*, Desm.

„ *nebulosum*, Berk.

Leptothyrium juglandis, Lib.

„ *ribis*, Lib.

Actinothyrium graminis, Kze.

Sphæronema lycopersici, Plow.

Sphæropsis taxi, Berk.

„ *alismaticis*, Curt.

Dothiora sphæroides, Fr.

Diplodia mutila, Fr.

„ *cæspitosa*, B. & Br.

„ *ilicicola*, Desm.

„ *herbarum*, Lev.

„ *viticola*, Desm.

„ *syringæ*, Awd.

„ *sapinæ*, Fr.

„ *oospora*, Berk.

Hendersonia elegans, Berk.

„ *graminicola*, Lev.

„ *rosæ*, West.

„ *sarmentorum*, West.

Darlucula filum, Cast.

„ *typhoidearum*, B. & Br.

Vermicularia atramentaria, B. & Br.

Melasmia alnea, Lev.

Piggotia astroidea, B. & Br.

Septoria ulmi, Kze.

„ *dianthi*, Desm.

„ *graminum*, Desm.

„ *hederæ*, Desm.

„ *polygonorum*, Desm.

„ *epilobii*, West.

„ *fraxini*, Desm.

„ *castanæcola*, Desm.

„ *urticæ*, Desm.

„ *unedinis*, Rob.

Phyllosticta sambuci, Desm.

„ *primulæcola*, Desm.

Cheilaria carpini, Lev.

Ascochyta armoracæ, Fckl.

Excipula strigosa, Fr.

„ *petiolicola*, Fckl.

Dinemasporium graminum, Lev.

„ *fimeti*, Ph. & Plow.

Prosthemium stellare, Riess.

Asteroma rosæ, D. C.

„ *prunellæ*, Purt.

Discella carbonacæ, B. & Br.

„ *desmazierii*, B. & Br.

Ceuthospora lauri, Grev.

ORDER XIII. MELANCONIEI.

Melanconium bicolor, Nees.

„ *sphærospermum*, Link.

Stegonosporium cellulosum, Corda.

Asterosporium hoffmanni, M. & N.

Coryneum macrosporum, Berk.

„ *disciforme*, Kze.

„ *kunzei*, Corda.

„ *umbonatum*, Tul.

„ *beyerinickii*, Oud.

Pestalozzia guepini, Desm.

Cheirospora botryspora, Fr.

Nemaspora crocea, P.

ORDER XIV. TORULCAEI.

Torula pulveracea, Corda.

„ *stilbospora*, Corda.

„ *abbreviata*, Corda.

„ var. *sphæriæformis*.

„ *hysterioides*, Corda.

„ *herbarum*, Lk.

„ *sporendonema*, B. & Br.

Helicosporium vegetum, Nees.

Bispora monilioides, Corda.

- Sporidesmium scutellare*, B. & Br.
 „ *lepraria*, B. & Br.
Septonema elongatispora, Preuss.
Sporochisma mirabilis, B. & Br.
Coniothecium amentacearum, Corda.
 „ *betulinum*, Corda.
Echinobotryum atrum, Corda.
Gymnosporium physiciæ, Kuhn.
Acalyptospora nervisequia, Desm.

ORDER XV. UREDINEI.

Uromyces.

- „ (*Micruromyces*) *ficariæ*, Schum.
 „ „ *scilliarum*, Grev.
 „ (*Hemiuromyces*) *rumices*, Schum.
 „ „ *alchemillæ*, Pers.
 „ (*Auteuromyces*) *polygoni*, Pers.
 „ „ *betæ*, Pers.
 „ „ *salicorniæ*, D. C.
 „ „ *limonii*, D. C.
 „ „ *valerianæ*, Schum.
 „ „ *phaseoli*, Pers.
 „ „ *tripolii*, A. & S.
 „ (*Hetereuromyces*) *dactylidis*, Otth.
 „ „ *poæ*, Rbh.
 „ „ *junci*, Desm.
 „ „ *pisi*, Pers.

Puccinia.

- „ (*Leptopuccinia*) *buxi*, D. C.
 „ „ *annularis*, Straus.
 „ „ *verrucosa*, Schultz.
 „ „ *asteris*, Duby.
 „ „ *valantii*, Pers.
 „ „ *mulvaccarum*, Mont.
 „ „ *arenariæ*, Schum.
 „ „ *circææ*, Pers.
 „ (*Micropucciniæ*) *ægopodii*, Schum.
 „ (*Hemipucciniæ*) *baryi*, B. and Br.
 „ „ *scirpi*, D. C.
 „ „ *oblongata*, Link.
 „ „ *anthoxanthi*, Fckl.
 „ „ *iridis*, D. C.
 „ „ *polygoni*, A. and S.
 „ „ *suaveolens*, Pers.
 „ „ *bullata*, Pers.
 „ „ *pruni-spinosæ*, Pers.
 „ „ *hydrocotyles*, Pers.
 „ (*Pucciniopsis*) *bunii*, D. C.
 „ „ *fusca*, Rehl.
 „ „ *smyrni*, Corda.
 „ (*Eupuccinia*) *primulæ*, D. C.
 „ „ *menthæ*, Pers.

Puccinia.

- „ (*Eupuccinia*) *flosculosorum*, A. & S.
 „ „ *tragopogi*, Pers.
 „ „ *galii*, Pers.
 „ „ *adoxæ*, D. C.
 „ „ *pimpinellæ*, Link.
 „ „ *epilobii-tetragoni*, D. C.
 „ „ *violæ*, Schum.
 „ „ *calthæ*, Link.
 „ (*Hetereupuccinia*) *graminis*, Pers.
 „ „ *rubigo-vera*, D. C.
 „ „ *coronata*, Corda.
 „ „ *magnusiana*, Körn.
 „ „ *moliniæ*, Tul.
 „ „ *poarum*, Niels.
 „ „ *obscura*, Schros.
 „ „ *phragmitis*, Schum.
 „ „ *sessilis*, Schneider.
 „ „ *caricis*, Schum.

- Gymnosporangium sabinæ*, Dicks.
 „ *clavariæformis*, Jacq.
 „ *juniperinum*, Linn.

Triphragmium ulmariæ, Schum.*Phragmidium subcortatum*, Schiank.

- „ *fragariæ*, D. C.
 „ *rubi*, Pers.
 „ *violaceum*, Schultz.
 „ *rubi-idei*, Pers.

Melampsora betulinæ, Pers.

- „ *salicio-caprææ*, Pers.
 „ *heliscopica*, Pers.
 „ *hypericorum*, D. C.
 „ *lini*, Pers.
 „ *cerastii*, Pers.
 „ *circææ*, Schum.

Coleosporium euphrasiæ, Schum.

- „ *campanulæ*, Pers.
 „ *sonchi-arvensis*, Pers.
 „ *senecionis*, Pers.

Cæoma orchidis, A. and S.

- „ *mercurialis-perennis*, Pers.

Æcidium ari, Desm.

- „ *pedicularis*, Libosch.
 „ *bellidis*, P.
 „ *periclymeni*, Schum.
 „ *punctatum*, Pers.
 „ *grossulariæ*, Gmel.

ORDER XVI. USTILAGINEI.

Tilletia caries, Tul.*Ustilago carbo*, Tul.

- „ *candollei*, Tul.

Ustilago olivacea, Tul.
 " *longissima*, Tul.
 " *hypodytes*, Fr.
 " *salvei*, B. and Br.
 " *antherarum*, D. C.
 " *scabiosæ*, Sow.
 " *utriculosa*, Nees.

Sorosponim rudolphi, Tul.
Thecaphora hyalina, Fing.
Urocystis violæ, B. and Br.
 " *pompholygodes*, Schlech.

FAMILY IV. HYPHOMYCETES.

ORDER XVII. ISARIACEI.

Anthina flammea, Fr.
Ceratium hydroides, A. and S.
Pachnocybe subulata, Berk.

ORDER XVIII. STILBACEI.

Stilbum tomentosum, Schrad.
 " *vulgare*, Tode.
 " *fimentarium*, B. and Br.
Tubercularia granulata, Pers.
 " *nigricans*, Link.
 " *vulgaris*, Tode.
 " *persicina*, Desm.
Fusarium lateritium, Nees.
 " *roseum*, Link.
Myrothecium roridum, Tode.
Illosporium roseum, Fr.
 " *carneum*, Fr.
Ægerita candida, Pers.

ORDER XIX. DEMATIEI.

Arthrobotryum stilboideum, Ces.
Periconia caliciodes, Berk.
Sporocybe byssoides, Fr.
Stachybotrys atra, Corda.
Helminthosporium folliculatum, Corda.
 " *macrocarpum*, Grev.
 " *tiliæ*, Fr.
 " *rousselianum*, Mont.
 " *arundinacea*, Corda.
Macrosporium cheiranthi, Fr.
Helicoma mulleri, Corda.
Polythrincium trifolii, Kze.
Cladosporium herbarum, Link.

Cladosporium dendriticum, Wallr.
 " *bacilligerum*, Mont.
 " *lycopersici*, Plow.
Sporodum conopleoides, Corda.

ORDER XX. MUCEDINES.

Aspergillus glaucus, Link.
 " *niger*, Van Tieghem.
Nematogonium aurantiacum, Desm.
Botrytis agaricina, Ditm.
Ramularia obliqua, Cooke.
 " *armoraciæ*, Fckl.
 " *destructiva*, Ph. and Pl.
Polyactis cinerea, Berk.
Penicillium crustaceum, Fr.
 " var. β *coremium*.
Oidium aureum, Link.
 " *fulvum*, Link.
 " *fructigenum*, Schrad.
 " *balsamii*, Mont.
Dactylium dendroides, Fr.
 " *roseum*, Berk.
 " *lycopersici*, Plow.
Fusidium griseum, Link.
 " *flavo-virens*, Fr.
 " *geranii*, West.
 " *cylindricum*, Corda.
 " *asteris*, Ph. and Pl.
Sporotrichum sulphureum, Grev.
Zygodemus fuscus, Corda.
Bolacotricha grisea, B. and Br.
Myxotrichum deflexum, Berk.
Menispora ciliata, Corda.
Botryosporium pulchrum, Corda.

ORDER XXI. PERONOSPOREI.

Peronospora infestans, Mont.
 " *nivea*, Ung.
 " *parasitica*, Pers.
 " *sordida*, Berk.
Cystopus candidus, Lev.
 " *cubicus*, Straus.

ORDER XXII. SEPEDONIEI.

Sepedonium chrysospermum, Link.
Fusisporium Kuhneii, Fckl.
 " *solani*, Mart.

ORDER XXIII. TRICHODERMACEI.

DIVISION II. SPORIDIIFERA.

FAMILY V. PHYSOMYCETES.

ORDER XXIV. ANTENNARIEI.

Zasmidium cellare, Fr.

ORDER XXV. MUCORINI.

Ascophora mucedo, Tode.*Mucor caninus*, P.,, *fusiger*, Link.,, *clavatus*, Link.*Pilobolus crystallinus*, Tode.,, *roridus*, Schum.*Hydrophora stercorea*, Tode.*Acrostalagmus cinnabarinus*, Corda.*Endogone lactiflua*, B. and Br.

ORDER XXVI. SAPROLEGNIEI.

Saprolegnia ferox, Kutz.

FAMILY VI. ASCOMYCETES.

ORDER XXVII. ONYGENEI.

Onygena equina, Pers.

ORDER XXVIII. ELVELLACEI.

Morchella esculenta, Pers.,, *smithiana*, Cooke.,, *gigas*, Pers.,, *semilibera*, D. C.*Helvella infula*, Schæff.,, *crispa*, Fr.,, *lacunosa*, Afz.,, *elastica*, Bull.*Verpa digitaliformis*, Pers.*Mitrula cucullata*, Fr.,, *paludosa*, Fr.*Spathularia flavida*, Pers.*Leotia lubrica*, P.*Geoglossum glutinosum*, P.,, *viscosum*, P.,, *glabrum*, P.,, *hirsutum*, P.,, *difforme*, Fr.*Peziza*.,, (*Macropodes*) *acetabulum*, L.,, " *macropus*, P.*Peziza*.,, (*Macropodes*) *corium*, Weber.,, " *bulbosa*, Hedw.,, " *tuberosa*, Bull.,, (*Cochleatae*) *venosa*, P.,, " *badia*, P.,, " *cochleata*, Huds.,, " *succosa*, Berk.,, " *leporina*, Batsch.,, " *onotica*, P.,, " *aurantia*, Fr.,, " *fibrillosa*, Curr.,, (*Cupulares*) *repanda*, Wahl.,, " *cerea*, Sow.,, " *vesiculosa*, Bull.,, " *macrocalyx*, Riess.,, " *micropus*, Pers.,, " *isabellina*, W. G. S.,, " *cupularis*, L.,, " *argillacea*, Sow.,, " *mellea*, Cooke and Plow.,, " *sepiatra*, Cooke.,, " *purpurascens*, Pers.,, (*Humaria*) *rutilans*, Fr.,, " *laeti-rubra*, Cooke.,, " *melaloma*, A. and S.,, " *leucoloma*, Reb.,, " *chateri*, W. G. S.,, " *humosa*, Fr.,, " *schizospora*, Phillips.,, " *granulata*, Bull.,, (*Encalia*) *fascicularis*, A. and S.,, " *furfuracea*, Fr.,, (*Sarcoscypha*) *coccinea*, Jacq.,, " *radiculata*, Sow.,, " *hemispherica*, Wig.,, " *sepulta*, Fr.,, " *hirta*, Schum.,, " *trechispora*, B. & Br.,, " *scutelata*, Linn.,, " *stercorea*, P.,, " *theleboloides*, A. & S.,, " *cocotina*, Cooke.,, " *palearum*, Desm.,, " *crucipila*, Phil.,, " *dalmeniensis*, Cooke.,, (*Dasyscypha*) *virginea*, Batsch.,, " *calycina*, Schum.,, " *subtilissima*, Cooke.,, " *bicolor*, Bull.,, " *cerina*, P.,, " *clandestina*, Bull.,, " *albo-violasceus*, A. & S.,, " *corticalis*, P.,, " *schumacheri*, Fr.

Peziza.

- „ (*Dasyscypha*) *rufo-olivacea*, A. & S.
 „ „ *hyalina*, Pers.
 „ „ *sulphurea*, P.
 „ „ *apala*, B. & Br.
 „ „ *varicolor*, Pers.
 „ (*Tapesia*) *domestica*, Sow.
 „ „ *cæsia*, Pers.
 „ „ *prunorum*, Fckl.
 „ „ *fusca*, Pers.
 „ (*Hymenoscypha*) *firma*, Pers.
 „ „ *curreiana*, Tul.
 „ „ *duriæniana*, Tul.
 „ „ *echinophila*, Bull.
 „ „ *pseudotuberosa*, Rehm.
 „ „ *inflexa*, Bolt.
 „ „ *strobilina*, Fr.
 „ „ *cyathoidea*, Bull.
 „ (*Mollisia*) *clavus*, A. and S.
 „ „ *vinosa*, A. and S.
 „ „ *atrovirens*, Pers.
 „ „ *pteridis*, A. and S.
 „ „ *versicolor*, Fr.
 „ „ *cinerea*, Batsch.
 „ „ *lacustris*, Fr.
 „ „ *hepatica*, Batsch.
 „ „ *sphærioides*, Pers.
 „ „ *vulgaris*, Fr.
 „ „ *erumpens*, Grev.
 „ „ *flaveola*, Cooke.
 „ „ *typhæ*, Cooke.
 „ „ *plantaginis*, Fckl.
 „ „ *atrata*, Pers.
 „ „ *ulcerata*, Ph. and Pl.
 „ „ *epithalina*, Ph. and Pl.
 „ „ *fusarioides*, Berk.
 „ (*Durella*) *resinæ*, Fr.
Helotium aciculare, Fr.
 „ *æruginosum*, Fr.
 „ *virgultorum*, Fr.
 „ *conigenum*, Fr.
 „ *citrinum*, Fr.
 „ *pallescens*, Fr.
 „ *claro-flavum*, Berk.
 „ *salicellum*, Fr.
 „ *pruinatum*, Jerd.
 „ *herbarum*, Fr.
 „ *epiphyllum*, Fr.
 „ *punctatum*, Fr.
Patellaria atrata, Fr.
 „ *rhabarbarina*, Berk.
 „ *clavispora*, B. and Br.
 „ *proxima*, B. and Br.
 „ *lignyota*, Fr.

- Tympanis ligustri*, Tul.
Cenangium ferruginosum, Fr.
 „ *rubi*, Fr.
Ascobolus furfuraceus, P.
 „ (*Saccobolus*) *violaceus*, Boud.
 „ „ *neglectus*, Boud.
 „ (*Ascophanus*) *carneus*, Pers.
 „ „ *ciliatus*, Schm.
 „ „ *testaceus*, B. & Br.
Bulgaria inquinans, Fr.
 „ *sarcoides*, Fr.
Stictis pallida, Pers.
 „ *Berkeleyana*, Du R. and Lev.
 „ *versicolor*, Fr.
 „ „ var. *alba*.
 „ „ var. *viridis*.
Ascomyces tosquinetii, West.

ORDER XXIX. TUBERACEI.

- Tuber æstivum*, Vitt.
 „ *rufum*, Pico.
Elaphomyces variegatus, Vitt.
 „ *granulatus*, Fr.

ORDER XXX. PHACIDIACEI.

- Phacidium pini*, Schum.
 „ *coronatum*, Fr.
 „ *repandum*, Fr.
 „ *trifolii*, Boud.
 „ *ranunculi*, Desm.
Heterosphaeria patella, Grev.
Rhytisma maximum, Fr.
 „ *salicinum*, Fr.
 „ *acerinum*, Fr.
Stegia ilicis, Fr.
Trochila craterium, Fr.

PYRENOMYCETES.

FAMILY I. PERISPORIACEÆ.

SUB-FAMILY I. ERYSPHEÆ.

- Podosphaeria tridactyla* (Wallr.).
Sphærotheca pannosa, Lev.
 „ *castagnei*, Lev.
Phyllactinia suffulta (Reb.).
Uncinula aceris (D. C.).
Microsphaeria berberidis (D. C.).
 „ *grossulariæ*, Lev.

- Erysiphe lamprocarpa* (Wallr.).
 " *montagnei*, Lev.
 " *communis* (Wallr.).
 " *martii*, Lev.
 " *graminis*, D. C.

SUB-FAMILY II. PERISPORIÆ.

- Eurotium herbariorum*, Wigg.
Perisporium vulgare, Corda.

SUB-FAMILY III. CAPNODIÆ.

- Capnodium salicinum*, Mont.

FAMILY II. SPHÆRIACEÆ.

SECTION I. ALLANTOSPORÆ.

- Enchnoa infernalis* (Kunze and Fr.).
Calosphæria cupularis (Pers.).
 " *tristis* (Pers.).
Calosphæria princeps, Tul.
 " *dryina* (Curr.).
 " *vibratilis* (Fr.).
Quaternaria persoonii, Tul.
 " *dissepta*, Fr.
Valsa ceratophora, Tul.
 " *abietis*, Fr.
 " *sordida* (Nits.).
 " *syngenesia*, Fr.
 " *ambiens* (Pers.).
 " *salicina* (Pers.).
 " *nivea* (Hoffm.).
 " *leucostoma* (Pers.).
Eutypella microspora (C. and P.).
 " *prunastri* (Pers.).
 " *stellulata* (Fr.).
 " *acharii*, Tul.
 " *aspera*, Nits.
 " *lata* (Pers.).
 " *leioplaca* (Fr.).
 " *scabrosa* (Bull.).
 " *flavo-virescens* (Hoffm.).
 " *velutina* (Wallr.).
Cryptosphæria millepunctata, Grev.
Diatrype disciformis (Hoffm.).
 " *bullata* (Hoffm.).
 " *stigma* (Hoffm.).
Diatrypella verrucæformis (Ehr.).
 " *favacea* (Fr.).
 " *tocciana*, D. N.
 " *aspera* (Fr.).
 " *quercina* (Pers.).

SECTION II. PHÆOSPORÆ.

- Ceratostoma piliferum*, Fr.
Chætomium comatum (Tode).
 " *griseum*, Cooke.
Sordaria coprophila (Fr.).
 " *fimiseda*, Cés and D. N.
 " *curvula*, D. B.
 " *minuta*, Fckl.
 " *caudata* (Curr.).
Hypocopra fimicola (Rob.).
 " *discopsora* (Awd.).
 " *vesticola* (Berk.).
Coprolepa fimeti (Pers.).
 " *merdaria* (Fr.).
 " *equorum* (Fckl.).
Rosellinia aquila (Fr.).
 " *mammiformis* (Pers.).
 " *pulveracea* (Ehr.).
Authostoma melanotes (B. and Br.).
 " *cubiculare* (Fr.).
 " *xylostei* (Pers.).
 " *turgidum* (Fr.).
 " *gastrinum* (Fr.).
Xylaria polymorpha (Pers.).
 " *pedunculata* (Dicks).
 " *hypoxylon* (Linn.).
 " *carpophila* (Pers.).
 " *digitata* (Linn.).
Poronia punctata (Linn.).
Ustulina vulgaris, Tul.
Hypoxylon coccineum (Bull.).
 " *argillaceum* (Pers.).
 " *fuscum* (Pers.).
 " *minatum*, Cooke.
 " *multiforme*, Fr.
 " *rubiginosum* (Pers.).
 " *serpens* (Pers.).
 " *udum* (Pers.).
Daldinia concentrica (Bolt.).
Nummularia lutea (A. and S.)
 " *gigas*, Plow.
 SECTION III. HYALOSPORÆ.
Ceratostomella cirrhosa (Pers.).
Gnomoniella tubiformis (Tode).
 " *vulgaris* (Cés and D. N.).
 " *devexa* (Desm.).
 " *fimbriata* (Pers.).
Læstadia perpusilla (Desm.).
 " *carpineæ* (Fr.).

Ditopella fusipora (D. N.).
 „ *farcta* (B. and Br.).
Trichosphæria pilosa (Pers.).
Cryptosporella hypoderma (Fr.).

SECTION IV. HYALODIDYMEÆ.

Sphærella punctiformis (Pers.).
 „ *maculæformis* (Pers.).
 „ *hedericola* (Desm.).
 „ *salicicola* (Fr.).
 „ *cratægi*, Fckl.
 „ *brassicicola* (Duby.).
 „ *isariiphora* (Desm.).
 „ *rumicis* (Desm.).
 „ *pinoides* (B. and Blox.).
 „ *pteridis* (Desm.).
 „ *brunneola*, Fr.
 „ *atomus*, Desm.
 „ *scirpi-lacustris*, Awd.
 „ *eryngii*, Fr.
Stigmatea robertiana, Fr.
 „ *ægopodii*, Fr.
Didymella applanata (Niessl.).
 „ *superflua* (Fckl.).
 „ *fuckeliana*, Pers.
 „ *tosta* (B. and Br.).
 „ *bryoniæ* (Fckl.).
Gnomonia setacea (Pers.).
 „ *graphis*, Fckl.
Epicymatia vulgaris, Fckl.
Melanopsamma pomiformis (Pers.).
 „ *ruborum* (Lib.).
Bertia moriformis (Tode).
Lentomita ligneola (B. and Br.).
Venturia ditricha (Fr.).
 „ *glomerata*, Cooke.
 „ *potentillæ* (Fr.).
Melanconis stilbostoma (Fr.).
 „ *modiona*, Tul.
 „ *alni*, Tul.
 „ *thelebola* (Fr.).
Hercospora tillæ, Tul.
Diaporthe (Ch.) *strumella* (Fr.).
 „ *leiphæma* (Fr.).
 „ *nucleata* (Curr.).
 „ *detrusa* (Fr.).
 „ *cratægi* (Curr.).
 „ *sallicella* (Fr.).
 „ *hystrix* (Tode).
 „ *pyrrhocystis* (B. & Br.).
 „ *syngenesia* (Fr.).

Diaporthe (Ch.) *taleola* (Fr.).
 „ (Eu.) *spiculosa* (A. and S.).
 „ *badhami* (Curr.).
 „ *pulla*, Nits.
 „ *protracta*, Nke.
 „ *samaricola*, Ph. and Plow.
 „ *inquilina* (Wallr.).
 „ *acus* (Blox.).
 „ *arctii* (Lasch.).
 „ *discors*, Sacc.
 „ *tulasnei*, Nits.
 „ *dulcamariæ*, Nits.
 „ *pantherina* (Berk.).
 „ (Tet.) *sarothamni*, Awd.
 „ *wibbii*, Nits.
 „ *rostellata* (Fr.).
 „ *vepris* (De Laer).
 „ *lirella* (Moug.).
 „ *resicans*, Nits.
 „ *scobina*, Nits.
 „ *discutiens* (Berk.).
 „ *blepharodes* (B. & Br.).
 „ *ryckholtii* (West.).
 „ *importata*, Nits.
 „ *putator*, Nits.
 „ *spina*, Fckl.
 „ *quadrinucleata* (Curr.).

SECTION V. PHÆODIDYMEÆ.

Didymosphæria palustris (B. and Br.).
 „ *epidermidis* (Fr.).
 „ *diplospora* (Cooke).
 „ *acerina*, Rehm.
Massariella bufonia (B. and Br.).
 „ *vibriatilis* (Fckl.).
 „ *Curreyi* (Tul.).
Delitschia bisporula, Hans.
 „ *winteri*, Plow.
Valsaria insitiva (Cés and D. N.).
 „ *cincla* (Curr.).
 „ *anserina* (Pers.).
 „ *apiculata* (Curr.).

SECTION VI. PHÆOPHRAGMIÆ.

Massaria fedans, Fr.
 „ *inquinans* (Tode).
Leptosphæria doliolum (Pers.)
 „ *clivensis* (B. and Br.).
 „ *aparines* (Fckl.).
 „ *maculans* (Desm.).
 „ *agnita* (Desm.).

- Leptosphaeria acuta* (Moug.)
 „ *derasa* (B. and Br.).
 „ *michotii* (West.).
 „ *marram* (Cooke).
 „ *arundinacea* (Sow.).
 „ *typharum* (Desm.).
 „ *juncina* (Awd.).
 „ *nigrans* (Desm.).
 „ *nardii* (Fr.).
 „ *maritima* (C. and Plow.).
 „ *nosfoliæ* (Cooke).
 „ *clara* (C. and A.).
 „ *rusci* (Wallr.).
 „ *culmifraga* (Fr.).
 „ *graminis* (Fckl.).
 „ *rubelloides* (Plow.).
 „ *pontiformis*, Fckl.
- Clypeosphaeria notarisi*, Fckl.
 „ *hyperici*, Plow. and Phil.
- Chaetosphaeria phæostroma*, Fckl.
 „ *cupulifera* (B. and Br.).
 „ *innumera* (B. and Br.).
- Melanomma pulvis-pyrius* (Pers.).
 „ *fuscidulum*, Sacc.
 „ *obducens* (D. N.).
 „ *epochnii* (B. and Br.).
- Trematosphaeria pertusa* (Pers.).
 „ *anglica*, Sacc.
- Sporormia intermedia*, Awd.
 „ *lignicola*, Ph. and Pl.
- Aglaospora profusa* (Fr.)
- Pseudovalsa lanciformis* (Fr.).
 „ *longipes* (Tul.).
 „ *aucta* (B. and Br.)
- Kalmusia hemitepha* (B. and Br.).
 „ *hypotepha* (B. and Br.).

SECTION VII. HYALOPHRAGMIÆ.

- Massarina eburnea* (Tul.).
Metasphaeria bitorulosa (B. and Br.).
 „ *junci* (Ouds.).
 „ *sabuletorum* (B. and Br.).
Sphaerulina myriadea (D. C.).
Hypospila pustula (Pers.).
Lasiosphaeria hirsuta (Fr.).
 „ *helicoma* (Ph. and Pl.).
 „ *canescens* (Pers.).
 „ *rachodum* (Pers.).
 „ *mutabilis* (Pers.).

- Lasiosphaeria spermoides* (Hoffm.).
 „ *ovina* (Pers.).
 „ *scabra* (Curr.).
Melomastea friesii (Nits.).
Zignoëlla pulviscula (Curr.).
 „ *pæcilostoma* (B. and Br.).
Calospora innesii, Curr.

SECTION VIII. DICTYOSPORÆ

- Pleomassaria siparia* (B. and Br.).
Karstenula rhodostoma (A. and S.).
Pleospora vulgaris, Niessl.
 „ *herbarum* (Pers.).
 „ *rubicunda*, Niessl.
 „ *infectoria*, Fckl.
 „ *heleocharidis*, Karst.
 „ *scirpicola* (D. C.).
 „ *typhicola* (Cooke).
 „ *culmorum* (Cooke).
 „ *subriparia* (Cooke).
 „ *rubelloides* (Plow.).
Pyrenophora trichostoma (Fr.).
 „ *phæocomes* (Reb.).
 „ *calvescens* (Fr.).
Teichospora obducens, Fr.
Cucurbitaria berberidis, Pers.
 „ *laburni*, Pers.
 „ *elongata*, Fr.
 „ *spartii*, Nees.
 „ *rhamni*, Nees.
 „ *dulcamaræ*, Fr.
Fenestella princeps, Tul.
 „ *lycii* (Duby.).

SECTION IX. SCOLECOSPORÆ.

- Ophiobolus porphyrogonus* (Tode).
 „ *acuminatus* (Sow.).
 „ *herpotrichus* (Fr.).
Linospora capræ (D. C.).
Sillia ferruginea (Pers.).
Cryptospora suffusa (Fr.).

FAMILY III. HYPOCREACEÆ.

SECTION I. HYALOSPORÆ.

- Chilonectria cucurbitula* (Curr.).
Eleutheromyces subulatus (Tode).
Selinia pulchra (Wint.).
Polystigma rubrum (Pers.).

SECTION II. PHÆOSPORÆ.

- Sphæroderma epispærium* (Ph. & Pl.).
Melanospora parasitica, Tul.

SECTION III. HYALODIDYMIÆ.

- Hypomyces asterophorus*, Tul.
 „ *chrysospermus*, Tul.
 „ *lateritius* (Fr.).
 „ *rosellus* (A. and S.).
 „ *broomeanus*, Tul.
 „ *aurantius* (Pers.).
 „ *terrestris*, Plow. and Boud.
 „ *berkeleyanus*, Plow. and Cooke.
 „ *candicans*, Plow.
 „ *viridis* (A. and S.).
 „ *tulasneanus*, Plow.
 „ *violaceus* (Fr.).
 „ *linkii*, Tul.
 „ *cervinus*, Tul.
 „ *baryanus*, Tul.
Nectria cinnabarina (Tode).
 „ *ribis* (Fr.).
 „ *punica* (K. and S.).
 „ *sinopica* (Fr.).
 „ *coccinea* (Pers.).
 „ *ditissima*, Tul.
 „ *aquifolii* (Fr.).
 „ *sanguinea* (Sibth.).
 „ *epispæria* (Tode).
 „ *lichenicola* (Cés.).
 „ *lecanodes* (Cés.).
 „ *fibricola*, Plow.
 „ *peziza* (Tode).
 „ *mammoidea* (Ph. and Pl.).

Sphærostilbe aurantiaca, Tul.

Aponectria inaurata (B. and Br.).

- Hypocrea rufa* (Pers.).
 „ *lenta* (Tode).
 „ *rigens* (Fr.).
 „ *gelatinosa* (Tode).
 „ *aureo viridis*, Plow. & Cooke.
 „ *delicatula*, Tul.
 „ *lactea* (Fr.).
 „ *alutacea* (Fr.).

SECTION V. PHRAGMOSPORÆ.

- Calonectria plowrightiana*, Sacc.
 „ *ochraceo-pallida* (B. & Br.).
Gibberella pulicaris (Fr.).
 „ *flacca* (Wallr.).
 „ *saubinetii* (Mont.).
 „ *acervalis* (Moug.).

SECTION VI. DICTYOSPORÆ.

Pleonectria lamyii (Desm.).

SECTION VII. SCOLECOSPORÆ.

- Claviceps purpurea* (Fr.).
 „ *microcephala* (Wallr.).
 „ *nigricans*, Tul.
Cordyceps entomorrhiza (Dicks.).
 „ *militaris* (Linn.).
 „ *ophioglossoides* (Ehr.).
 „ *capitata* (Holmsk.).
Epichloe typhina (Pers.).

FAMILY IV. DOTHIDIACEÆ.

SECTION I. HYALOSPORÆ.

- Phyllachora ulmi* (Desm.).
 „ *graminis* (Pers.).
 „ *epitypha* (Cooke).
 „ *junci* (Fr.).
 „ *trifolii* (Pers.).
 „ *podagrariæ* (Roth).

SECTION II. HYALODIDYMIÆ.

- Dothidiella betulina* (Fr.).
Scirrhia rimosa (A. and S.).
 „ *depauperata* (Desm.).
Plowrightia ribesia (Pers.).

SECTION V. PHRAGMOSPORÆ.

Rhopoglyphus filicinus (Fr.).

FAMILY V. MICROTHYRIACEÆ.

FAMILY VI. LOPHIOSTOMACEÆ.

SECTION IV. HYALOPHRAGMIÆ.

- Lophiotrema hederæ* (Fckl.).
 „ *crenatum* (Pers.).
 „ *sexnucleata* (Cooke).
 „ *angustilatum* (B. and Br.).

SECTION V. PHÆOPHRAGMIÆ.

- Lophiostoma quadrinucleatum* (Karst.).
 „ *caulium* (Fr.).
 „ *arundinis* (Fr.).
 „ *macrostomum* (Tode).
 „ *bicuspidatum* (Cooke).

- FAMILY VII. HYSTERIACEÆ.
SECTION III. HYALODIDYMÆ.
Glonium lineare (Fr.).
- SECTION V. PHÆOPHRAGMIÆ.
Hysterium pulicare, Pers.
" *angustatum*, A. and S.
- SECTION VI. HYALOPHRAGMIÆ.
Gloniella typhæ (Fckl.).
Dichæna quercina (Pers.)
" *strobilina* (Fr.).
- SECTION VII. HYALODICTYÆ.
Gloniopsis curvata (Fr.).

- SECTION VIII. PHÆODICTYÆ.
Hysterographium fraxini (Pers.)
" *elongatum* (Wahl.).
- SECTION IX. SCOLECOSPORÆ.
Hypoderma virgultorum (D. C.)
Lophodermium pinastri (Schrad.)
" *juniperinum* (Fr.)
" *arundinaceum* (Schrad.)
" *culmigenum* (Fr.)
" *typhinum* (Fr.)
Lophium mytilinum (Pers.)
Colpoma quercinum (Pers.)
Acrospermum compressum (Tode.)
" *graminium* (Lib.).

NOTE ON THE CLASSIFICATION OF THE SPHÆRIACEI.

THE arrangement of the Sphæriaceous fungi in the above enumeration of Norfolk species differs very materially from that which has hitherto been employed by British botanists. We have, up to the present time, used a modification of the Friesian system. Useful as this has proved to us in times past, yet the continual augmentation of the Sphæriacei, not so much in this country as from abroad, has rendered the Friesian system so cumbrous as to be practically unworkable. The more so has this arisen from the great number of new genera into which the Sphæriæ have necessarily been divided by Continental botanists. The system here adopted is that of Professor Saccardo in his "Sylloge Fungorum," a work in which upwards of six thousand species of this group of fungi are described. Of course it is not presumed that this classification is perfect, but it is now possible to determine specimens of these fungi, which before was not the case. The system has been more or less severely criticised in this country, but as its adoption by the next generation of botanists may be regarded as a matter of certainty, I take the present opportunity of subjoining an outline of its main points.

PYRENOMYCETEÆ.

Fungi having their fructification in ascigerous perithecia.

Family 1.—PERISPORIACEÆ.—Simple. Perithecia membranaceous, coriaceous, or subcarbonaceous, astomatous, bursting irregularly.

Sub-Family 1. *Erysipheæ*. 2. *Perisporiææ*. 3. *Capnodicææ*.

Family 2.—SPHÆRIACEÆ.—Simple or compound. Perithecia membranaceous, coriaceous or carbonaceous, distinct from the stroma when any is present, black, dehiscing by rounded ostiola.

Section 1. *Allantosporææ*.—Sporidia continuous, cylindrical, curved, obtuse at both extremities (sausage-shaped), hyaline or olivaceous.

Section 2. *Phæosporæ*.—Sporidia continuous, ovoid or subnavicular, brown or fuliginous.

Section 3. *Hyalosporæ*.—Sporidia ovoid, oblong or fusiform, continuous, hyaline or subhyaline.

Section 4. *Hyalodidymæ*.—Sporidia ovoid, oblong or fusiform, uniseptate, hyaline or subhyaline.

Section 5. *Phæodidymæ*.—Sporidia ovoid, oblong or fusiform, uniseptate, fuliginous or dark brown.

Section 6. *Phæophragmiæ*.—Sporidia oblong or fusiform, two or many septate, olivaceous, yellow or brown.

Section 7. *Hyalophragmiæ*.—Sporidia oblong or fusiform, two or many septate, hyaline.

Section 8. *Dictyosporæ*.—Sporidia ovoid, oblong or subfusiform, transversely and longitudinally septate (muriform), brown, rarely hyaline.

Section 9. *Scolecosporeæ*.—Sporidia rod-shaped or filiform, often as long as the asci, nucleate or septate, hyaline or yellowish.

Family 3.—HYPOCREACEÆ.—Simple or compound. Perithecia subcarnose or ceraceo-membranaceous, never carbonaceous, generally reddish, rarely bluish or yellowish or pallid, ostiola subcentral rounded, stroma when present rather soft, carnosio-ceraceous, rarely floccose.

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| 1. <i>Hyalosporæ</i> . | 3. <i>Hyalodidymæ</i> . | 5. <i>Phragmosporæ</i> . | 7. <i>Scolecosporeæ</i> . |
| 2. <i>Phæosporæ</i> . | 4. <i>Phæodidymæ</i> . | 6. <i>Dictyosporæ</i> . | |

Family 4.—DOTHIDEACEÆ.—Compound. Stromate, pulvinate, effused or linear, coriaceous or carbonaceous, not carnosio, black, perithecia (loculi) confluent and homogeneous with the stroma, scarcely distinct from it, papillate or quite pertuse, sporidia often hyaline, rarely brownish.

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|------------------------|-------------------------|--------------------------|---------------------------|
| 1. <i>Hyalosporæ</i> . | 3. <i>Hyalodidymæ</i> . | 5. <i>Phragmosporæ</i> . | 7. <i>Scolecosporeæ</i> . |
| 2. <i>Phæosporæ</i> . | 4. <i>Phæodidymæ</i> . | 6. <i>Dictyosporæ</i> . | |

Family 5.—MICROTHYRIACEÆ.—Simple. Perithecia subsuperficial, blackened, membranaceous, or carbonaceous, dimidiate, applanate, pertuse, or astomatous.

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| 1. <i>Hyalosporæ</i> . | 3. <i>Hyalodidymæ</i> . | 5. <i>Phragmosporæ</i> . | 6. <i>Closterosporæ</i> . |
| 2. <i>Phæosporæ</i> . | 4. <i>Phæodidymæ</i> . | | |

Family 6.—LOPHIOSTOMACEÆ.—Simple. Perithecia subsuperficial, at first immersed, carbonaceous, rarely submembranaceous, black, ostiola compressed, more or less wide, very narrowly rimose, asci with paraphyses.

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|------------------------|---------------------------|--------------------------|---------------------------|
| 1. <i>Phæosporæ</i> . | 3. <i>Hyalodidymæ</i> . | 5. <i>Phæophragmiæ</i> . | 7. <i>Scolecosporeæ</i> . |
| 2. <i>Phæodidymæ</i> . | 4. <i>Hyalophragmiæ</i> . | 6. <i>Dictyosporæ</i> . | |

Family 7.—HYSTERIACEÆ.—Simple. Perithecia erumpent, superficial, horizontally oblong or linear, membranaceous, coriaceous, or carbonaceous, or rarely at first carnosio, mostly blackish, dehiscing by a fissure running the whole length of the perithecia.

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|-------------------------|--------------------------|---------------------------|---------------------------|
| 1. <i>Hyalosporæ</i> . | 4. <i>Phæodidymæ</i> . | 6. <i>Hyalophragmiæ</i> . | 8. <i>Phæodictyæ</i> . |
| 2. <i>Phæosporæ</i> . | 5. <i>Phæophragmiæ</i> . | 7. <i>Hyalodictyæ</i> . | 9. <i>Scolecosporeæ</i> . |
| 3. <i>Hyalodidymæ</i> . | | | |





