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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Det list received 15 Feb 1989!

Bernard Lowy collections from Maracá, 1986

- L01216 FUN Tremellaceae Ductifera?
- L01217 FUN Auriculariaceae Auricularia fuscosuccinea
- L01218 FUN Sparassidaceae Sparasis
- L01219 FUN Stereaceae Podoscypha
- L01220 FUN Stereaceae Cotyldia
- L01221 FUN Polyporaceae Polyporus
- L01222 FUN Polyporaceae Polyporus
- L01223 FUN Tricholomataceae Marasmius
- L01224 FUN Corticiaceae
- L01225 FUN Corticiaceae
- L01226 FUN Corticiaceae
- L01227 FUN Polyporaceae Coriolus
- L01228 FUN Resupinate
- L01229 FUN Polyporaceae Polyporus
- L01230 FUN Stereaceae Cymatoderma caperata
- L01231 FUN Polyporaceae Polyporus
- L01232 FUN Polyporaceae Polyporus
- L01233 FUN Tremellales Heterochaete
- L01234 FUN Polyporaceae Poria
- L01235 FUN Xylariaceae Kretzschmaria
- L01236 FUN Xylariaceae
- L01237 FUN Xylariaceae Xylaria
- L01238 FUN Xylariaceae Xylaria
- L01239 FUN Tricholomataceae Marasmius
- L01240 FUN Xylariaceae Xylaria
- L01240a FUN Xylariaceae Kretzschmaria
- L01241 FUN Corticiaceae
- L01242 FUN Corticiaceae
- L01243 FUN Tricholomataceae Marasmius
- L01243a FUN Polyporaceae Polyporus
- L01244 FUN Tricholomataceae Marasmius
- L01245 FUN Tricholomataceae Marasmius
- L01246 FUN Tricholomataceae Marasmius
- L01247 FUN Xylariaceae Xylaria
- L01248 FUN Agaricaceae
- L01249 FUN Stereaceae ?
- L01250 FUN Tricholomataceae Marasmius
- L01251 FUN Resupinate
- L01252 FUN Tricholomataceae Marasmius ?
- L01253 FUN Stereaceae Stereum
- L01254 FUN Corticiaceae
- L01255 FUN Auriculariaceae Auricularia mesenteria
- L01256 FUN Thelephoraceae Dictyonema
- L01257 FUN Polyporaceae Favolus brasiliensis
- L01258 FUN Tricholomataceae Marasmius
- L01259 FUN Polyporaceae Polyporus
- L01260 FUN Tricholomataceae Marasmius
- L01261 FUN Agaricaceae
- L01262 FUN Tricholomataceae Marasmius
- L01263 FUN Agaricaceae
- L01264 FUN Tricholomataceae Marasmius
- L01265 FUN Thelephoraceae
- L01266 FUN Polyporaceae Polyporus
- L01267 FUN Agaricaceae
- L01268 FUN Agaricaceae

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L01269 FUN Agaricaceae
L01270 FUN Stereaceae Stereum
L01271 FUN Stereaceae Stereum
L01272 FUN Corticiaceae
L01273 FUN Nidulariaceae *Cyathus striatus*
L01274 FUN Stereaceae *Cymatoderma*
L01275 FUN Polyporaceae *Polyporus*
L01276 FUN Polyporaceae *Polyporus*
L01277 FUN Agonomycetaceae *Rhizomorpha*
L01278 FUN Corticiaceae
L01279 FUN Nidulariaceae Cyphellaceae
L01280 FUN Agaricaceae
L01281 FUN Stereaceae *Cotylidia*
L01282 FUN Stereaceae *Cotylidia*
L01283 FUN Xylariaceae *Xylaria*
L01284 FUN Lycoperdaceae *Lycoperdon*
L01285 FUN Agaricaceae
L01286 FUN Xylariaceae *Xylaria*
L01287 FUN Polyporaceae *Polyporus*
L01288 FUN Agaricaceae
L01289 FUN Corticiaceae
L01290 FUN Tricholomataceae *Marasmius*
L01291 FUN Corticiaceae
L01292 FUN Polyporaceae *Poria*
L01293 FUN Polyporaceae *Poria*
L01294 FUN Thelephoraceae *Caripia montagnei*
L01295 FUN Corticiaceae
L01296 FUN Ascomycete
L01297 FUN Xylariaceae *Xylaria*
L01298 FUN Corticiaceae
L01299 FUN Polyporaceae *Poria*
L01300 FUN Xylariaceae *Xylaria*
L01300a FUN *Ceratiomyxa fruticulosa*

L01301 FUN Ceratiomyxa morchella
 L01302 FUN Physaraceae Physarum sp.
 L01303 FUN Xylariaceae Xylaria
 L01304 FUN Tricholomataceae Marasmius
 L01305 FUN Agaricaceae
 L01306 FUN Agaricaceae
 L01307 FUN Ceratiomyxa morchella
 L01308 FUN Stereaceae Stereum
 L01309 FUN Polyporaceae Polyporus
 L01310 FUN Polyporaceae Polyporus
 L01311 FUN Polyporaceae Polyporus
 L01312 FUN Xylariaceae Xylaria
 L01313 FUN Dacrymycetaceae
 L01314 FUN Polyporaceae Lenzites
 L01315 FUN Tricholomataceae Marasmius
 L01316 FUN Polyporaceae Polyporus
 L01317 FUN Polyporaceae Polyporus
 L01318 FUN Agaricaceae
 L01319 FUN Clavariaceae Ramaria
 L01320 FUN Agaricaceae
 L01321 FUN Xylariaceae Kretzschmaria
 L01322 FUN Stereaceae Cymatoderma
 L01323 FUN Polyporaceae Polyporus
 L01324 FUN Xylariaceae Xylaria
 L01325 FUN Polyporaceae Polyporus
 L01326 FUN Stereaceae Stereum
 L01327 FUN Polyporaceae Polyporus
 L01328 FUN Polyporaceae Polyporus hydnoides
 L01329 FUN Corticiaceae
 L01330 FUN Agaricaceae
 L01331 FUN Polyporaceae Irpex
 L01332 FUN Agaricaceae
 L01333 FUN Polyporaceae Daedalea
 L01334 FUN Polyporaceae Polyporus
 L01335 FUN Tricholomataceae Marasmius
 L01336 FUN Corticiaceae
 L01337 FUN Polyporaceae Fomes
 L01338 FUN Stereaceae Cotylidia
 L01339 FUN Corticiaceae
 L01340 FUN Corticiaceae
 L01341 FUN Agaricaceae
 L01342 FUN Agaricaceae
 L01343 FUN Dacrymycetaceae Dacryopinax spathularia
 L01344 BRY
 L01345 FUN Stilbaceae Stilbum
 L01346 FUN Polyporaceae Polyporus
 L01347 FUN Corticiaceae
 L01348 FUN Agaricaceae
 L01349 FUN Corticiaceae
 L01350 FUN Ceratiomyxa fruticulosa
 L01351 FUN Ceratiomyxa fruticulosa
 L01352 FUN Licheales Tubifera
 L01353 LIC Parmelia
 L01354 FUN Polyporaceae Polyporus
 L01355 LIC Ascolichen
 L01356 LIC Parmelia
 L01357 FUN Stereaceae
 L01358 LIC

L01359 FUN Corticiaceae
L01360 FUN Stereaceae
L01361 FUN Corticiaceae
L01362 FUN Stereaceae
L01363 FUN Corticiaceae
L01364 LIC
L01365 LIC
L01366 BRY
L01367 FUN Stereaceae
L01368 FUN Corticiaceae
L01369 FUN Thelephoraceae
L01370 FUN Xylariaceae Xylaria
L01371 FUN Trichiaceae Arcyria
L01372 FUN Corticiaceae
L01373 FUN Corticiaceae
L01374 FUN Stereaceae
L01375 FUN Auriculariaceae Auricularia fuscusuccinea
L01376 FUN Corticiaceae
L01377 FUN Xylariaceae Xylaria
L01378 FUN Stereaceae Cymatoderma
L01379 FUN Polyporaceae Polyporus
L01380 FUN Corticiaceae
L01381 FUN Resupinate
L01382 FUN Agaricaceae
L01383 FUN Corticiaceae Peniophora ?
L01384 FUN Lycoperdaceae Lycoperdon
L01385 FUN Corticiaceae
L01386 FUN Agaricaceae
L01387 FUN Thelephoraceae
L01388 FUN Corticiaceae
L01389 FUN Xylariaceae Xylaria
L01390 FUN Schizophyllaceae Schizophyllum
L01391 FUN Auriculariaceae Auricularia delicata
L01392 FUN Corticiaceae
L01393 FUN Polyporaceae Polyporus hydnoides
L01394 LIC
L01395 FUN Corticiaceae
L01396 FUN Stereaceae
L01397 LIC
L01398 FUN Clavariaceae Ramaria
L01399 FUN Corticiaceae
L01400 FUN Corticiaceae
L01401 FUN Stereaceae Stereum
L01402 FUN Tricholomataceae Marasmius
L01403 FUN Polyporaceae Polyporus
L01404 FUN Discomycete
L01405 FUN Polyporaceae Polyporus
L01406 FUN Xylariaceae Kretzschmaria
L01407 FUN Cyphellaceae ?
L01408 FUN Corticiaceae
L01409 FUN Corticiaceae
L01410 FUN Corticiaceae
L01411 FUN Agaricaceae
L01412 FUN Polyporaceae Daedalea ?
L01413 FUN Corticiaceae
L01414 FUN Polyporaceae Irpex ?
L01415 FUN Corticiaceae
L01416 FUN Corticiaceae

L01417 FUN Xylariaceae Xylaria
L01418 FUN Hypocreaceae Hypocrea
L01419 FUN Polyporaceae Polyporus
L01420 FUN Stereaceae Stereum
L01421 FUN Thelephoraceae Hypolyssus (Caripia)
L01422 FUN Stereaceae Stereum
L01423 FUN Polyporaceae Poria
L01424 FUN Stereaceae Stereum
L01425 FUN Corticiaceae Corticium
L01426 FUN Stereaceae Stereum
L01427 FUN Xylariaceae Xylaria
L01428 FUN Corticiaceae
L01429 FUN Corticiaceae
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L01431 FUN Corticiaceae
L01432 FUN Xylariaceae Kretzschmaria
L01433 FUN Xylariaceae Xylaria
L01434 FUN Sarcocyphaceae
L01435 BRY
L01436 BRY
L01437 FUN Agaricaceae
L01438 BRY Sphagnum
L01439 FUN Corticiaceae
L01440 FUN Auriculariaceae Auricularia fuscusuccinea
L01441 FUN Corticiaceae
L01442 FUN Corticiaceae
L01443 LIC
L01444 FUN Corticiaceae
L01445 FUN Stereaceae
L01446 FUN Stereaceae
L01447 FUN Stereaceae
L01448 FUN Corticiaceae
L01449 FUN Polyporaceae
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L01451 FUN Corticiaceae
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L01453 FUN Stereaceae
L01454 FUN Resupinate
L01455 FUN Corticiaceae
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L01461 FUN Corticiaceae
L01462 FUN Corticiaceae
L01463 LIC
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L01475 FUN Corticiaceae
 L01476 FUN Stereaceae
 L01477 FUN Hydnaceae
 L01478 FUN Corticiaceae
 L01479 FUN Corticiaceae
 L01480 FUN Corticiaceae
 L01481 FUN Corticiaceae
 L01482 FUN Stereaceae *Cymatoderma caperata*
 L01483 FUN Corticiaceae
 L01484 FUN Corticiaceae
 L01485 FUN Corticiaceae
 L01486 FUN Corticiaceae
 L01487 FUN Corticiaceae
 L01488 FUN Corticiaceae
 L01490 FUN Auriculariaceae *Auricularia delicata*
 L01491 FUN Auriculariaceae *Auricularia fuscosuccinea*
 L01492 FUN Strophariaceae *Psilocybe cubensis*
 L01493 FUN Corticiaceae
 L01494 FUN Xylariaceae *Xylaria*
 L01495 FUN Corticiaceae
 L01496 FUN Auriculariaceae *Auricularia fuscosuccinea*
 L01497 FUN Corticiaceae
 L01498 FUN Corticiaceae
 L01499 FUN Stereaceae *Podoscypha*
 L01500 FUN Stereaceae *Podoscypha*
 L01501 FUN Stereaceae
 L01502 FUN Agaricaceae
 L01503 FUN Stereaceae
 L01504 FUN Sarcoscyphaceae
 L01505 FUN Corticiaceae
 L01506 FUN Corticiaceae
 L01507 FUN Xylariaceae *Nummularia*
 L01508 FUN Stereaceae
 L01509 FUN Corticiaceae
 L01510 FUN Corticiaceae
 L01511 FUN Corticiaceae
 L01512 FUN Corticiaceae
 L01513 FUN Polyporaceae *Pleurotus*
 L01514 FUN Corticiaceae
 L01515 FUN Thelephoraceae *Dictyonema*
 L01516 FUN Dacrymycetaceae ?
 L01517 FUN Corticiaceae
 L01518 FUN Stereaceae
 L01519 FUN Corticiaceae
 L01520 FUN Polyporaceae
 L01521 FUN Polyporaceae
 L01522 FUN Agaricaceae
 L01523 FUN Corticiaceae
 L01524 FUN Polyporaceae
 L01525 FUN Polyporaceae
 L01526 FUN Tremallaceae ?
 L01527 FER
 L01528 FUN Stereaceae *Podoscypha*
 L01529 FUN Agaricaceae
 L01530 FUN Tremellaceae *Ductifera* ?
 L01531 FUN Strophariaceae *Psilocybe cubensis*
 L01532 FUN Polyporaceae
 L01533 FUN Corticiaceae

L01534 FUN Corticiaceae
 L01535 LIC
 L01536 FUN Corticiaceae
 L01537 FUN Corticiaceae
 L01538 FUN Corticiaceae
 L01539 FUN Polyporaceae Poria
 L01540 FUN Corticiaceae
 L01541 FUN Polyporaceae Irpex
 L01542 FUN Xylariaceae Thamnomycetes
 L01543 BRY
 L01544 FUN Polyporaceae Polyporus
 L01545 FUN Polyporaceae Melanopus
 L01546 FUN Xylariaceae Thamnomycetes
 L01547 FUN Stereaceae
 L01548 FUN Corticiaceae
 L01549 FUN Polyporaceae Polyporus
 L01550 FUN Corticiaceae
 L01551 FUN Corticiaceae
 L01552 FUN Stereaceae Cymatoderma
 L01553 FUN Corticiaceae
 L01554 FUN Xylariaceae Xylaria
 L01555 FUN Corticiaceae
 L01556 FUN Hypocreales
 L01557 FUN Polyporaceae Irpex
 L01558 FUN Hymenochaetaceae Hymenochaete damaecornis
 L01559 FUN Polyporaceae Polyporus
 L01560 FUN Corticiaceae
 L01561 FUN Corticiaceae
 L01562 FUN Corticiaceae
 L01563 FUN Corticiaceae
 L01564 FUN Nidulariaceae Cyathus
 L01565 FUN Polyporaceae Polyporus
 L01566 FUN Corticiaceae
 L01567 FUN Xylariaceae Xylaria
 L01568 FUN Corticiaceae
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 L01570 FUN Tremallaceae
 L01571 FUN Corticiaceae
 L01572 FUN Corticiaceae
 L01573 FUN Corticiaceae
 L01574 FUN Xylariaceae Xylaria
 L01575 FUN Clavariaceae Ramaria
 L01576 FUN Hydnaceae
 L01577 FUN Clavariaceae Ramaria
 L01578 FUN Corticiaceae
 L01579 FUN Corticiaceae
 L01580 FUN Polyporaceae Polyporus
 L01581 FUN Corticiaceae
 L01582 FUN Corticiaceae
 L01583 FUN Polyporaceae Polyporus
 L01584 FUN Clavariaceae
 L01585 FUN Polyporaceae Polyporus
 L01586 FUN Stereaceae Cotyldia
 L01587 FUN Tremallaceae ?
 L01588 FUN Sarcocyphaceae
 L01589 BRY
 L01590 FUN Xylariaceae Xylaria
 L01591 FUN Stereaceae

L01592 FUN Resupinate
 L01593 FUN Corticiaceae
 L01594 FUN Corticiaceae
 L01595 FUN Corticiaceae
 L01596 FUN Xylariaceae Xylaria
 L01597 FUN Corticiaceae
 L01598 FUN Corticiaceae
 L01599 FUN Thelephoraceae ?
 L01600 FUN Corticiaceae
 L01601 FUN Corticiaceae
 L01602 FUN Polyporaceae Polyporus
 L01603 FUN Stereaceae ~~Cotylidia~~ *Podoscypha thoretii*
 L01604 FUN Clavariaceae Clavaria
 L01605 LIC
 L01606 LIC
 L01607 LIC
 L01608 FUN Agaricaceae Panus rudis
 L01609 FUN Stereaceae Cotylidia
 L01610 LIC
 L01611 FUN Corticiaceae
 L01612 LIC
 L01613 FUN Agaricaceae Panus rudis
 L01614 LIC
 L01615 LIC
 L01616 LIC
 L01617 LIC
 L01618 FUN Corticiaceae
 L01619 FUN Stereaceae
 L01620 FUN Tremallaceae
 L01621 FUN Tremallaceae
 L01622 FUN Corticiaceae
 L01623 LIC
 L01624 FUN Tremallaceae ?
 L01625 FUN Corticiaceae
 L01626 LIC
 L01627 FUN Strophariaceae Psilocybe cubensis
 L01628 FUN Corticiaceae
 L01629 FUN Polyporaceae Polyporus
 L01630 FUN Crepidotaceae Crepidotus ?
 L01631 FUN Thelephoraceae
 L01632 FUN Corticiaceae
 L01633 FUN Agaricaceae
 L01634 FUN Polyporaceae
 L01635 FUN Stereaceae
 L01636 FUN Xylariaceae Xylaria
 L01637 FUN Corticiaceae
 L01638 FUN Stereaceae
 L01639 FUN Polyporaceae
 L01640 FUN Corticiaceae
 L01641 FUN Polyporaceae Poria
 L01642 FUN Corticiaceae
 L01643 LIC
 L01644 LIC
 L01645 FUN Xylariaceae Xylaria
 L01646 FUN Xylariaceae Nummularia
 L01647 LIC
 L01648 FUN Tremallaceae
 L01649 FUN Corticiaceae

L01650 FUN Polyporaceae Hexagona
L01651 FUN Corticiaceae
L01652 FUN Tremallaceae
L01653 FUN Corticiaceae
L01654 FUN Sarcocyphaceae
L01655 FUN Corticiaceae
L01656 FUN Xylariaceae Xylaria
L01657 FUN Corticiaceae
L01658 FUN Polyporaceae Poria
L01659 LIC
L01660 FUN Corticiaceae
L01661 FUN Corticiaceae
L01662 FUN Lycoperdaceae Lycoperdon
L01663 FUN Tricholomataceae Marasmius
L01664 FUN Corticiaceae
L01665 FUN Thelephoraceae
L01666 FUN Corticiaceae
L01667 FUN Pezizaceae ?
L01668 FUN Thelephoraceae ?
L01669 FUN Perichaena ?
L01670 FUN Ceratiomyxa fruticulosa
L01671 FUN Dacrymycetaceae Dacryopinax
L01672 LIC
L01673 FUN Stereaceae Cymatoderma caperata
L01674 FUN Corticiaceae
L01675 FUN Xylariaceae Xylaria
L01676 FUN Corticiaceae
L01677 FUN Tricholomataceae Marasmius
L01678 FUN Corticiaceae
L01679 BRY
L01680 FUN Corticiaceae
L01681 FUN Corticiaceae
L01682 FUN Corticiaceae
L01683 LIC Usneaceae Usnea
L01684 FUN Stereaceae
L01685 FUN Corticiaceae
L01686 FUN Corticiaceae
L01687 FUN Corticiaceae
L01688 FUN Polyporaceae Poria
L01689 FUN Tremallaceae ?
L01690 FUN Corticiaceae
L01691 FUN Corticiaceae
L01692 FUN Polyporaceae Polyporus
L01693 FUN Polyporaceae Polyporus
L01694 LIC
L01695 FUN Corticiaceae
L01696 LIC
L01697 FUN Corticiaceae
L01698 FUN Corticiaceae
L01699 FUN Corticiaceae
L01700 FUN Hymenochaetaceae Hymenochaete damaecornis
L01701 FUN Xylariaceae Xylaria
L01702 FUN Corticiaceae
L01703 FUN Polyporaceae Polyporus
L01704 FUN Nidulariaceae Cyathus striatus
L01705 FUN Corticiaceae
L01706 FUN Corticiaceae
L01707 FUN Corticiaceae

L01708 FUN Xylariaceae Xylaria
 L01709 FUN Tremallaceae ?
 L01710 FUN Polyporaceae Polyporus
 L01711 FUN Polyporaceae Poria
 L01712 FUN Xylariaceae Xylaria
 L01713 FUN Stereaceae Stereum
 L01714 BRY
 L01715 FUN Polyporaceae Polyporus
 L01716 FUN Agaricaceae
 L01717 FUN Tremallaceae ?
 L01718 FUN Corticiaceae
 L01719 FUN Stereaceae Stereum
 L01720 FUN Thelephoraceae
 L01721 FUN Thelephoraceae
 L01722 FUN Crepidotaceae Crepidotus ?
 L01723 FUN Sarcocyphaceae
 L01724 FUN Corticiaceae Peniophora
 L01725 FUN Corticiaceae
 L01726 FUN Corticiaceae
 L01727 FUN Sarcoscyphaceae Cookeina sulcipes
 L01728 FUN Stereaceae Stereum hirsutum
 L01729 FUN Ceratiomyxa fruticulosa
 L01730 FUN Xylariaceae Xylaria
 L01731 FUN Corticiaceae
 L01732 FUN Tremallaceae Tremella
 L01733 FUN Polyporaceae Poria
 L01734 FUN Xylariaceae Xylaria
 L01735 FUN Tremallaceae Tremella
 L01736 FUN Polyporaceae Polyporus
 L01737 FUN Clavariaceae Ramaria
 L01738 FUN Fistulinaceae Fistulina
 L01739 FUN Polyporaceae Poria
 L01740 FUN Xylariaceae Xylaria
 L01741 FUN Xylariaceae Xylaria
 L01742 FUN Polyporaceae Daedalea
 L01743 FUN Xylariaceae Xylaria
 L01744 FUN Xylariaceae Rosellinia
 L01745 FUN Corticiaceae
 L01746 FUN Polyporaceae Polyporus
 L01747 FUN Thelephoraceae Caripia
 L01748 FUN Corticiaceae
 L01749 FUN Polyporaceae Polyporus
 L01750 FUN Stereaceae Stereum
 L01751 FUN Polyporaceae Lenzites
 L01752 FUN Polyporaceae Polyporus
 L01753 FUN Xylariaceae Nummularia
 L01754 FUN Polyporaceae Fomes
 L01755 FUN Corticiaceae
 L01756 FUN Xylariaceae Xylaria
 L01757 LIC
 L01758 FUN Polyporaceae Favolus brasiliensis
 L01759 FUN Corticiaceae
 L01760 FUN Xylariaceae Xylaria
 L01761 FUN Thelephoraceae Caripia
 L01762 FUN Polyporaceae Polyporus
 L01763 FUN Xylariaceae Xylaria
 L01764 FUN Stereaceae Stereum
 L01765 FUN Corticiaceae

L01766 FUN Stereaceae Stereum
 L01767 FUN Stereaceae Cymatoderma
 L01768 FUN Hydnaceae
 L01769 FUN Tremellales Pseudohydnum gelatinosum
 L01770 FUN Sarcoscyphaceae Cookeina sulcipes
 L01771 FUN Xylariaceae Xylaria
 L01772 FUN Polyporaceae Polyporus
 L01793 FUN Stereaceae Stereum
 L01794 FUN Entolomataceae Claudopus
 L01795 FUN Polyporaceae Polyporus
 L01796 FUN Xylariaceae Xylaria
 L01797 FUN Polyporaceae Polyporus
 L01798 FUN Polyporaceae
 L01799 FUN Hymenochaetaceae Hymenochaete ?
 L01800 FUN Polyporaceae Polyporus
 L01801 FUN Corticiaceae
 L01802 FUN Hydnaceae
 L01803 FUN Auriculariaceae Auricularia fuscossuccinea
 L01804 FUN Polyporaceae Polyporus
 L01805 FUN Corticiaceae
 L01806 FUN Stereaceae Stereum
 L01807 FUN Polyporaceae Polyporus
 L01808 FUN Xylariaceae Xylaria
 L01809 FUN Polyporaceae Polyporus
 L01810 FUN Xylariaceae Xylaria
 L01811 FUN Polyporaceae
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 L01813 FUN Stereaceae
 L01814 FUN Tremallaceae ?
 L01815 FUN Corticiaceae
 L01816 FUN Corticiaceae
 L01817 FUN Corticiaceae
 L01818 FUN Corticiaceae
 L01819 FUN Xylariaceae Hypoxylon
 L01820 FUN Xylariaceae Xylaria
 L01821 FUN Polyporaceae Polyporus
 L01822 FUN Polyporaceae Fomes
 L01823 FUN Xylariaceae Xylaria
 L01824 FUN Corticiaceae
 L01825 FUN Polyporaceae Polyporus
 L01826 FUN Polyporaceae Polyporus
 L01827 FUN Sarcoscyphaceae
 L01828 FUN Polyporaceae Poria
 L01829 FUN Xylariaceae Xylaria
 L01830 FUN Polyporaceae Polyporus
 L01831 FUN Sarcoscyphaceae Cookeina
 L01832 FUN Polyporaceae Polyporus
 L01833 FUN Auriculariaceae Auricularia fuscossuccinea
 L01834 FUN Xylariaceae Hypoxylon
 L01835 FUN Polyporaceae Poria
 L01836 FUN Polyporaceae
 L01837 FUN Xylariaceae Xylaria
 L01838 FUN Polyporaceae Lenzites
 L01839 FUN Xylariaceae
 L01840 FUN Polyporaceae Polyporus
 L01841 FUN Polyporaceae Pleurotus
 L01842 FUN Stereaceae Stereum
 L01843 FUN Xylariaceae Xylaria

L01844 FUN Polyporaceae Polyporus
 L01845 FUN Polyporaceae
 L01846 FUN Xylariaceae Xylaria
 L01847 FUN Tremallaceae Ascotremella ?
 L01848 FUN Thelephoraceae
 L01849 FUN Stereaceae Podoscypha
 L01850 FUN Agaricaceae
 L01851 FUN Corticiaceae
 L01852 FUN Xylariaceae Xylaria
 L01853 FUN Polyporaceae Polyporus trichomallus
 L01854 FUN Hymenochaetaceae Hymenochaete damaeeornis
 L01855 FUN Nectriaceae
 L01856 FUN Polyporaceae Polyporus
 L01857 FUN Corticiaceae
 L01858 FUN Auriculariaceae Auricularia fuscusuccinea
 L01859 FUN Polyporaceae Polyporus
 L01860 FUN Agaricaceae
 L01861 FUN Polyporaceae Poria
 L01862 FUN Hymenochaetaceae Hymenochaete ^Mdardecornis
 L01863 FUN Stereaceae
 L01864 FUN Corticiaceae
 L01865 FUN Agaricaceae
 L01866 FUN Sarcocyphaceae
 L01867 FUN Polyporaceae Poria
 L01868 FUN Polyporaceae Polyporus
 L01869 FUN Xylariaceae Xylaria
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 L01874 FUN Xylariaceae Xylaria
 L01875 FUN Stereaceae Stereum
 L01876 FUN Xylariaceae Xylaria
 L01877 FUN Tricholomataceae Marasmius
 L01878 FUN Corticiaceae
 L01879 FUN Hymenochaetaceae Hymenochaete
 L01880 FUN Corticiaceae
 L01881 FUN Corticiaceae
 L01882 FUN Auriculariaceae (?) Laschia
 L01883 FUN Sarcocyphaceae Cookeina
 L01884 FUN Xylariaceae Xylaria
 L01885 FUN Polyporaceae Polyporus
 L01886 FUN Corticiaceae
 L01887 FUN Xylariaceae Xylaria
 L01888 FUN Polyporaceae Polyporus
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 L01890 FUN Stereaceae Cymatoderma
 L01891 FUN Polyporaceae
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 L01894 FUN Polyporaceae Polyporus
 L01895 FUN Xylariaceae Xylaria
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 L01897 FUN Xylariaceae Xylaria
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 L01899 FUN Agaricaceae
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Dr. Richard P. Korf
Mycotaxon, Ltd.
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Ithaca, New York 14851-0264

27-II-1987

Dear Dick,

On p. 9 of the ms. I submitted in January, there was a typographical error only now discovered (mea culpa)! It has been corrected. If it is not too late to do this, would you please substitute the enclosed corrected page for the one originally submitted?

I'm sorry for the added bother this causes you!

Sincerely,

Bernil
B. Lowy

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3 January 1987

Dr. Bernard Lowy
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It will appear in MYCOTAXON 29: 11-19 scheduled for publication about 25.vii.87.

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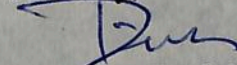
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Prof. Richard P. Korf
 Mycotaxon
 P. O. Box 264
 Ithaca, New York 14851

29-XII-1986

Dear Dick:

The enclosed 9-page ms. including 3 plates with 6 figures, reporting "New Brazilian Heterobasidiomycetes," is for your consideration as a paper for MYCOTAXON.

When ready, kindly return the original ms. and figures in the self-addressed envelope.

Since the world may not be lusting, just now, to learn about these spp. nov., I believe that 150 offprints should be sufficient to anticipate the "demand."

Arthur L. Welden of Tulane Univ. has reviewed the ms.

Cordially,


Bornil
 B. Lowy

*with covers,
 pa favor!*


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Dear Bernie,

Looks great!

cf. p. 9 (small

mistype.

Merry Seasons.

Arthur

ie universität!

Corrected before sending
to Konf.

Bl

DEPARTMENT OF BOTANY



Date 3-XII-'86

Arthur — I forgot to mention
that I looked at the 2 collections
you sent recently. Both "inter-
esting", one probably new.

1) Phyllogloea singeri Lowry.

2) Etidia sp. nov? — for
further study.

Thanks for trying to get the
enclosed back before Xmas
(this one?).

over

Saludos,

Bourne

NEW BRAZILIAN HETEROBASIDIOMYCETES

B. Lowy

Botany Department, Louisiana State University
Baton Rouge LA 70803

ABSTRACT

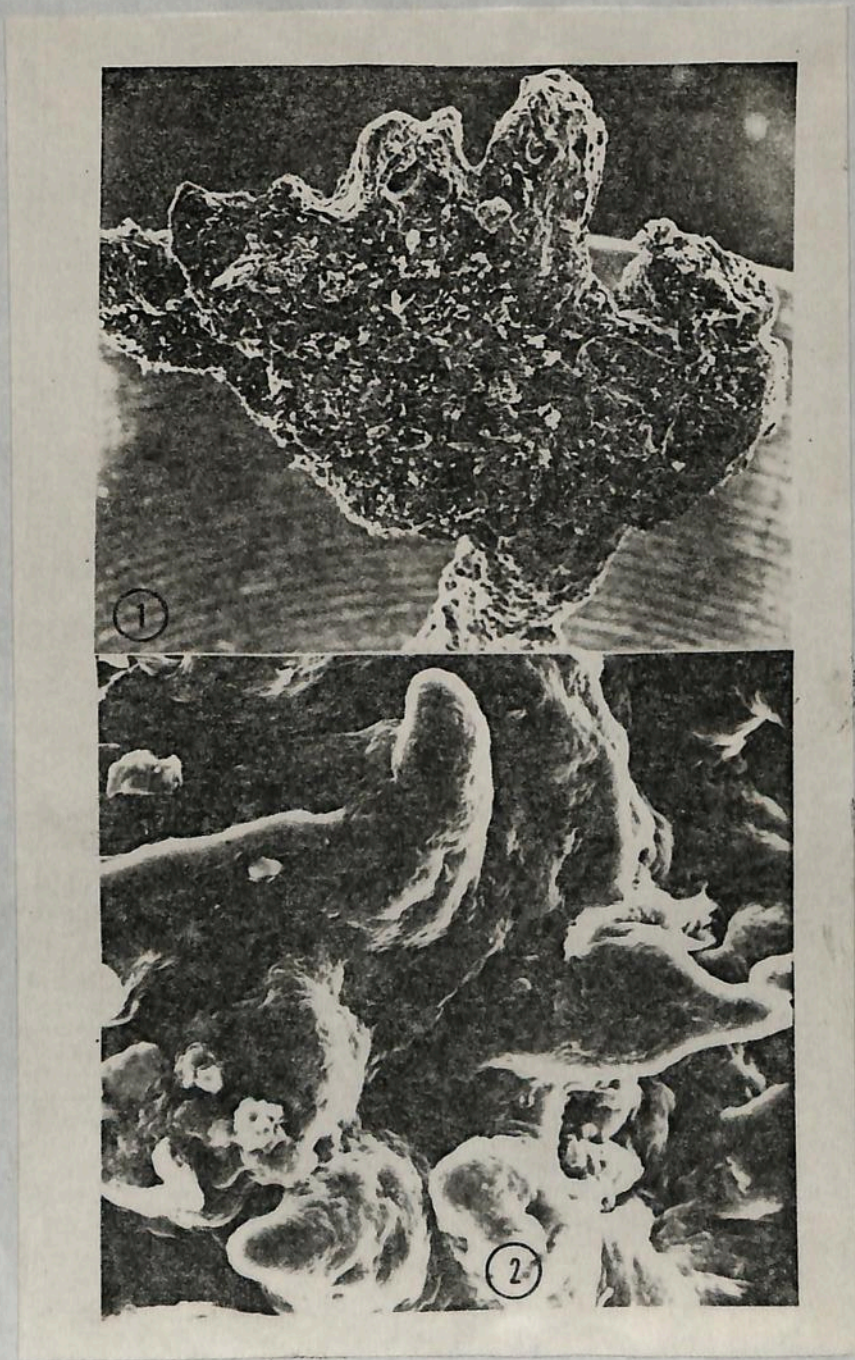
Three new species of Heterobasidiomycetes are reported from the Ilha de Maraca, Roraima, Brasil: *Dacryopinax crenata*, *Exidia maracensis*, and *Heterochaete bodmanii*. Other collections of Auriculariaceae, Tremellaceae, and Dacrymycetaceae are also listed.

Ilha de Maraca, located at 3°15'-3°35' N. Lat., 61°22'-61°58' W. Long., in the State of Roraima, is one of 16 biological stations designated by the Brazilian government as an ecological reserve. The riverine island, bounded by northern and southern branches of the Uraricoeira river, is one of the largest of such islands known, measuring approximately 65 x 25 km, constituting an area of 92,000 hectares. At present, only a small section at the eastern extremity of the island has been made accessible by trails cut through the forest. The limited access to the island, which requires special permission and carefully scrutinized credentials in order to carry out biological studies there is exemplary, and establishes a model much to be desired in many other regions of Brazilian Amazonia as well.

Dacryopinax crenata Lowy, sp. nov.

Fig. 1.

Fructificatio in humido elastico-gelatinosa, stipitata et pileata, aurantio-rubiginosa, sicca cornea, succina; pileo crenata, rugulosa, usque ad 4 mm late X 1 mm crassa; caulis subcylindraceus, rugosa, 10 mm alt X 1.5 mm crassa; hyphae enodosae; probasidia cylindracea, unicellularis, 15-20 x 3.0-3.5 μ m; metabasidia aseptata, bifurcata, 20-26 x 3-4 μ m; basidiosporae curvulo-cylindraceae, 8-10 x 3.5-4.0 μ m, postremo 1-septatae.



Fructification stipitate, pileate, rubbery gelatinous, rusty orange when fresh, drying dark amber, horny; pileus expanded, rugulose, up to 4 mm broad x 1 mm thick, with projecting lobules forming a crenate margin; stipe up to 10 x 1.5 mm, subcylindrical, coarsely and irregularly grooved; hyphae without clamp connections; probasidia cylindrical, unicellular, 15-20 x 3.0-3.5 μ m; metabasidia unicellular, furcate, 20-26 x 3.0-3.5 μ m, producing thick, cylindrical sterigmata; basidiospores curved cylindrical, 8.0-10.5 x 3.5-4.0 μ m, becoming 1-septate.

HOLOTYPE: Ilha de Maraca, Roraima, Brasil. On unidentified, decorticated wood. 9-VI-1986. Lowy 1671R. LSUM, INPA.

The genus Dacryopinax was established by Martin (1948) to include species differing from other members of Dacrymycetaceae by being "erect, stipitate and pileate, cupulate or spathulate when young, becoming fan-shaped or petaloid ...". Mature basidia of Dacryopinax, like other members of the family, are unicellular and bifurcate, the stout, elongate sterigmata (epibasidia sensu Martin) producing spore-bearing spicula (sensu Donk and Talbot; 1954, 1973) that pierce the hymenium, which is inferior. The pileus of D. crenata (Fig. 1) with its coarsely crenate margin is quite distinctive, although somewhat reminiscent of the deeply lobed, foliose pileus of D. indacocheae Lowy (1959). The pileus of D. crenata, however, is relatively small and thick, and free of hairs, whereas D. indacocheae has a thin pileus, and both pileus and stalk are conspicuously tomentose. D. indacocheae is illustrated in Flora Neotropica 6, 1971 (Fig. 28C). A key to the species occurring in the American tropics was published by Lowy (1981).

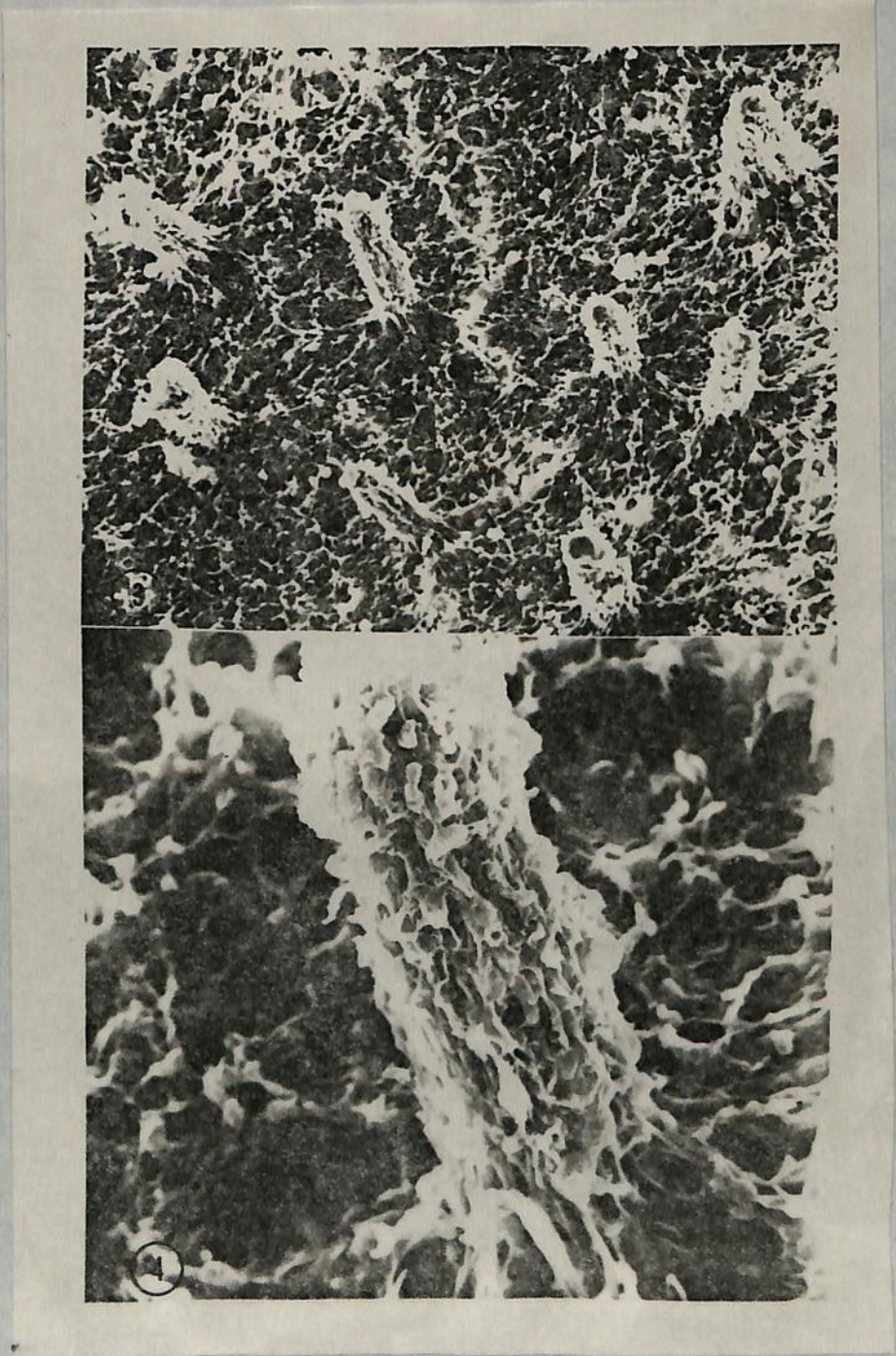
Exidia maracensis Lowy, sp. nov.

Fig. 2.

Fructificatio in humido cartilagineo-gelatinosa, foliosa, brunnea, 2.5 x 2.0 cm late x 1 mm crassa; sicca cornea, atrobrunnea; hymenio inferiori, convoluta, cum papillis numerosis, 105-120 x 25-35 μ m; hyphae enodosae;

Figs. 1-2. 1. Pileus and part of stipe of Dacryopinax crenata. X 25.

2. Papillae crowded on hymenial surface of Exidia maracensis. X 500.



p by hand NB!

probasidia subglobosa, 10.0-12.5 μm diam; metabasidia cruciatim septata, 14.5-18.0 x 10.0-12.5 μm diam; basidiosporae allantoideae, 5.5(-6.5) x 3.5 μm , per repetitionem germinantes.

Fructification tough cartilaginous-gelatinous, foliose, up to 2.5 x 2.0 cm x 1 mm thick, light brown, drying darker, horny; hymenium inferior, convolute, bearing numerous papillae, 105-120 x 25-35 μm ; hyphae without clamp connections; probasidia unicellular, globose to subglobose, 10.0-12.5 μm diam; metabasidia cruciate septate, 14.5-18.0 x 10.0-12.5 μm diam; basidiospores allantoid, 5.5(6.5) x 3.5 μm , germinating by repetition.

HOLOTYPE: Ilha de Maracá, Roraima, Brasil. On unidentified, decorticated wood, 24-VI-1986. Lowy 1732R. LSUM, INPA.

Macroscopically, this robust species of Exidia bears a superficial resemblance to some species of Tremella, but the papillate hymenium (Fig. 2) excludes it from that genus. Microscopically, the basidiospores are typically exidioid, being curved-cylindrical, as opposed to the subglobose or ovoid basidiospores of most Tremella spp. Notable, however, in this Exidia, are the small basidiospores which measure approximately half the length of most species of the genus I have examined, both tropical and temperate.

Among tropical species of Exidia that I have reported (Lowy 1971), only E. recisa is foliose to erect lobate, but differs from the new species in virtually all other significant characteristics. To cite the major ones: E. recisa dries thin and black, with relatively scattered, black papillae. Microscopically, it is characterized by its large spores (about 12-15 μm x 4-5 μm), and clamp connections.

Heterochaete bodmanii Lowy, sp. nov.

Figs. 3-4.

Fructificatio resupinata, tenua, arida, rosaria; sicca concolorata; in sectione 60-80 μm crassa; setulis numerosis, cylindricis, subhymenio emergentibus, 100 x 35 μm ; hyphae

Figs. 3-4. 3. Distribution of pegs on hymenial surface of Heterochaete bodmanii. X 25.

4. Peg detail. X 200.



enodosae; probasidia globosa vel subglobosa; 10.0-12.0 um diam; metabasidia pryformis, cruciatim septata, 20.0-25.5 x 6.0-7.5 um; basidiosporae curvulo-cylindratae, 12.0-15.0 x 6.0-7.5 um, per repetitionem germinates.

Fructification resupinate, arid, light pinkish when fresh, drying concolorous, 60-80 um thick; hymenial pegs numerous, cylindrical, up to 100 x 35 um, arising from subhymenium; hyphae without clamp connections; probasidia unicellular, globose to subglobose, 10.0-12.0 um diam; metabasidia pyriform, cruciate-septate, 20.0-25.5 x 6.0-7.5 um; basidiospores curved-cylindrical, 12.0-15.0 x 6.0-7.5 um, germinating by repetition.

HOLOTYPE: Ilha de Maraca, Roraima, Brasil. On unidentified, decorticated wood, 6-VI-1986. Lowy 1233R. LSUM, INPA. The species is named in honor of the late Sr. Mary Cecilia Bodman.

The most reliable reference to the morphology and taxonomy of the genus Heterochaete is the monograph by Bodman (1952). Her diligence resulted in the acceptance of 29 species, 25 of which were originally reported from tropical habitats. Many are still known only from their type localities. H. bodmanii appears to be closest to H. andina Pat. & Lag. as described by Bodman, but differs in several key characters, among these being the lack of clamp connections and sterile subhymenial elements, the absence of gelatinization in both pegs and hymenium, and the distinctly 4-celled basidia. The pegs (Figs. 3-4) are abundant and closely spaced, about 100 um apart. For a comparison with the gross morphology (SEM photograph) of the pegs of H. maculata Lowy, reference may be made to Lowy (1977).

Sterile elements, including papillae, pegs, and cystidia are often sufficiently distinctive to assist in the identification of some Heterobasidiomycetes, and occasionally they may be diagnostic on the genus or species level. Scanning electron micrographs of Auricularia fuscosuccinea hairs (Fig. 6) and of a cystidiophore of Heterochaetella cystidiophora (Fig. 5), both collected on Maraca island, are

Fig. 5. Cystidiophores with cystidia on hymenial surface of Heterochaetella cystidiophora. X 500.

Fig. 6. Hairs on abhymenial surface of Auricularia fuscosuccinea. X 500.

provided to indicate significant morphological differences among conspicuous sterile elements of the 5 genera illustrated.

Additional collections of tremellaceous fungi from Maraca are listed below.

AURICULARIACEAE

Auricularia delicata (Fr.) Henn.

Lowy 1490R, 12-VI-1986; Lowy 2121R, 2-VII-1986.

A. fuscosuccinea (Mont.) Farl.

Lowy 1217R, 5-VI-1986; Lowy 1375R, 9-VI-1986; Lowy 1440R, 11-VI-1986; Lowy 1491R, 12-VI-1986; Lowy 1497R, 13-VI-1986; Lowy 1803R, 24-VI-1986; Lowy 1833R, 25-VI-1986; Lowy 1858R, 25-VI-1986; Lowy 1928R, 26-VI-1986; Lowy 2170R, 3-VII-1986; Lowy 2151R, 2-VII-1986.

A. mesenterica Pers.

Lowy 1255R, 6-VI-1986.

Helicogloea lagerheimii Pat.

Lowy 1216R, 5-VI-1986; Lowy 1530R, 13-VI-1986.

TREMELLACEAE

Exidia nucleata (Schw.) Burt

Lowy 1255R, 6-VI-1986.

Heterochaetella cystidiophora Lowy

Lowy 1648R, 18-VI-1986; Lowy 1652R, 18-VI-1986.

Pseudohydnum gelatinosum (Fr.) Karsten

Lowy 1769R, 24-VI-1986.

Tremella fibulifera Möller

Lowy 1735R, 24-VI-1986; Lowy 2122R, 2-VII-1986.

ok
corrected
submitted

DACRYMYCETACEAE

Calocera cornea Fr.

Lowy 1978R, 28-VI-1986.

Dacryopinax elegans (Berk. & Curt.) Martin

Lowy 1907R, 26-VI-1986.

D. spathularia (Schw.) Martin

Lowy 1343R, 8-VI-1986; Lowy 1215R, 2-VI-1986.

ACKNOWLEDGMENTS

Thanks are due The New York Botanical Garden, the Instituto Nacional de Pesquisas da Amazonia (INPA), and Louisiana State University, under whose joint sponsorship the field work was undertaken. The cooperation of Sr. Gutemberg Moreno de Oliveira, Administrator of Maracá, merits special praise. I also gratefully acknowledge the technical assistance of Dr. Sharon Matthews, Botany Dept., LSU, who provided the SEM photographs.

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Botany

Negatives

Prints

Dacryodes crenata sp. nov.

Heterochaete bodmanii sp. nov.

Isla de Maracá, Perú. 1986.

SEM PHOTOS

<u>My code</u>	<u>SEM No.</u>	<u>Mag.</u>	<u>Scale</u>	<u>Identification</u>
a	1	20X 500X 1000X	500u (entire fr.) 50u 5u (papillae)	<u>Exidia</u> sp. } <i>Welden</i> 2502b
b	2	✓ 25X " "	500u cap & stalk	<u>Dacryopinax</u> sp. nov. ✓ 1671R
c	3	20X 50X 100X 100X ✓ 500X	500u (surface fr. w. papillae) 500u (surface w. inset box; papillae) 50u (papillae) " " 50u (papilla closeup)	<u>Exidia</u> sp. <i>maracensis</i> ✓ gen. nov. ? 1732R
f	4	✓ 25X ✓ 200X 1000X	500u 50u (papillae) 5u	<u>Heterochaete</u> sp. nov. ✓ 1233R
g	5 (as 1)	✓ 25X " ✓ 500X 1000X 8500X	500u 50u 5u (papillae w. cystidia) 0.5u	<u>Heterochaetella</u> <u>cystidiophora</u> ✓ 1652R
h	6	25X 150X ✓ 500X 1000X	500u 50u 50u (hairs) 5u	<u>Auricularia</u> <u>fuscosuccinea</u> ✓ 2151R
k	7	75X 750X 3000X	500u 50u (entire fr.) 5u	Homobasidiomycete No. <u>1313</u>

for SEM

a - Exidia sp. (Welden)

b - Dacryopinax sp.

c - Protoexidia sp.

~~e - Heterochaete sp.~~

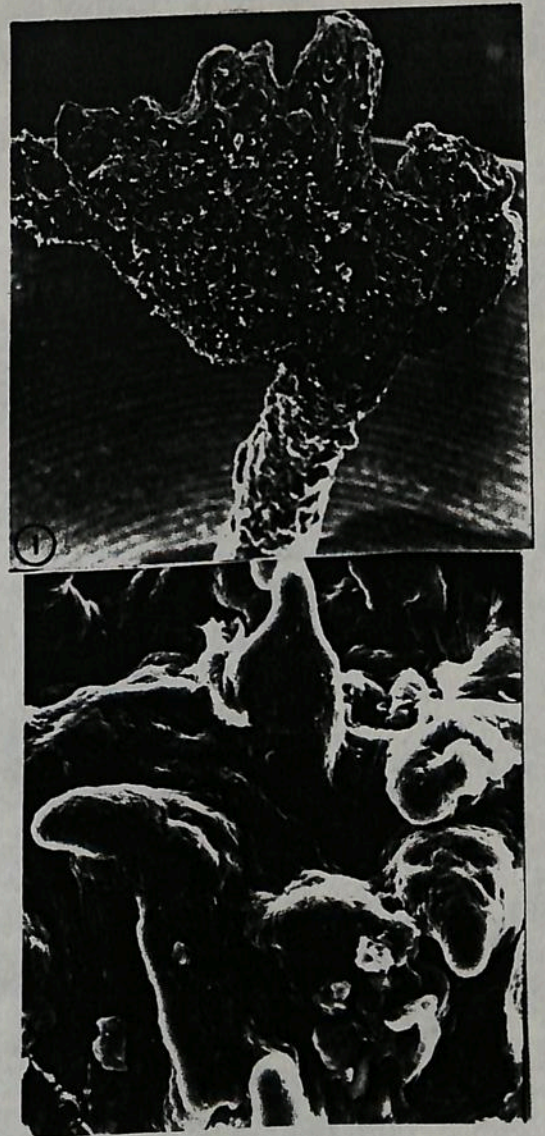
f - Heterochaete sp

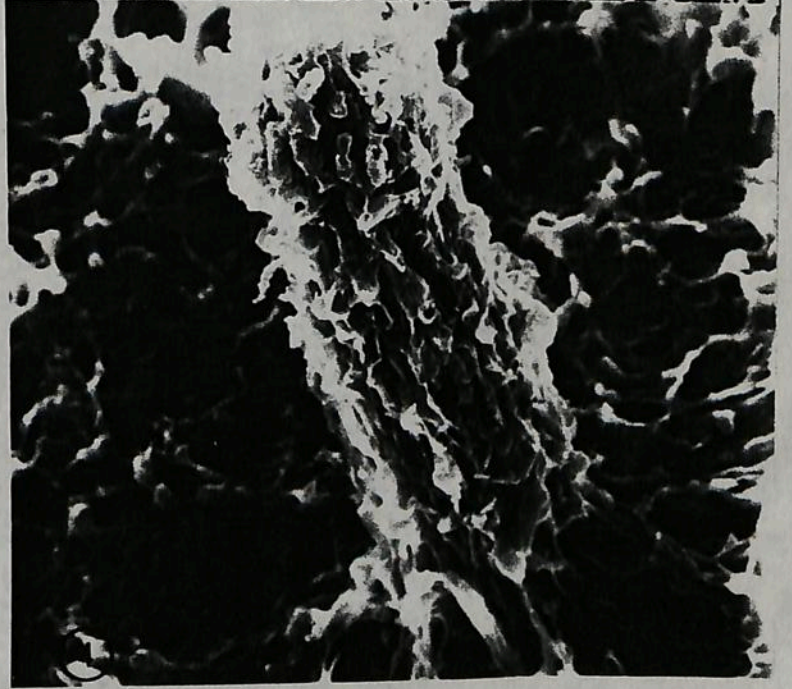
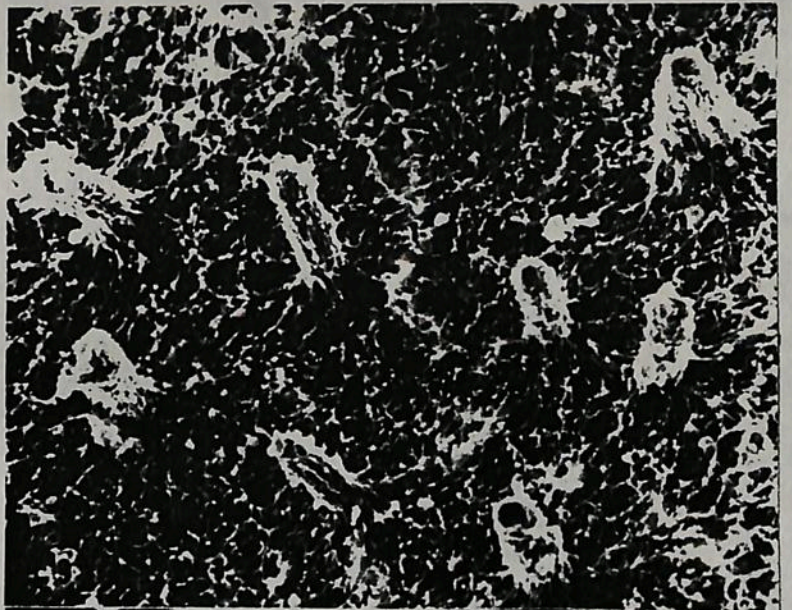
g - Heterochaetella cystidiophora

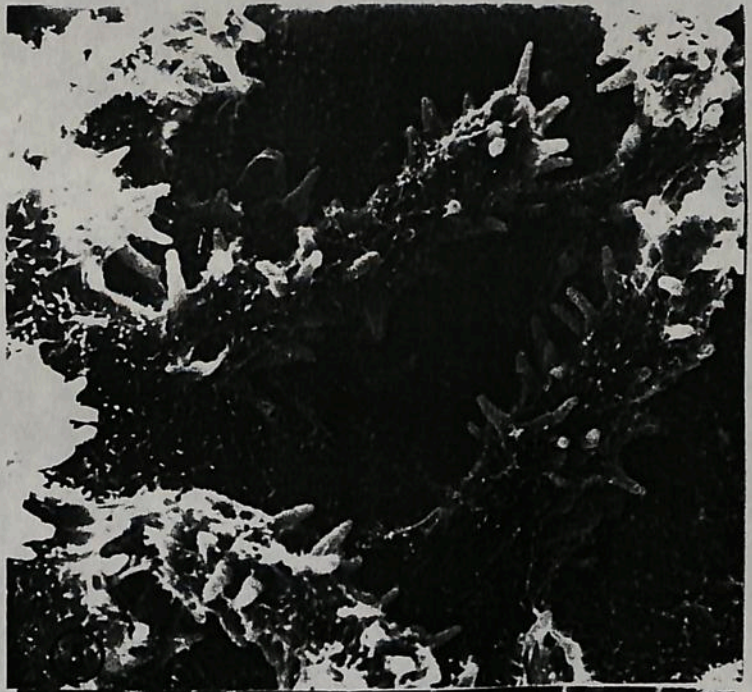
h - Auricularia fuscosuccinea

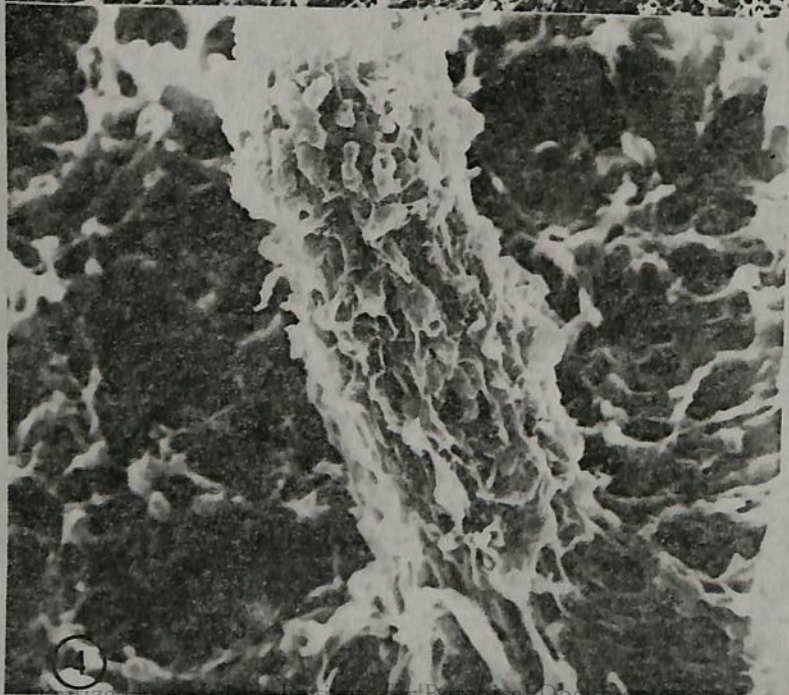
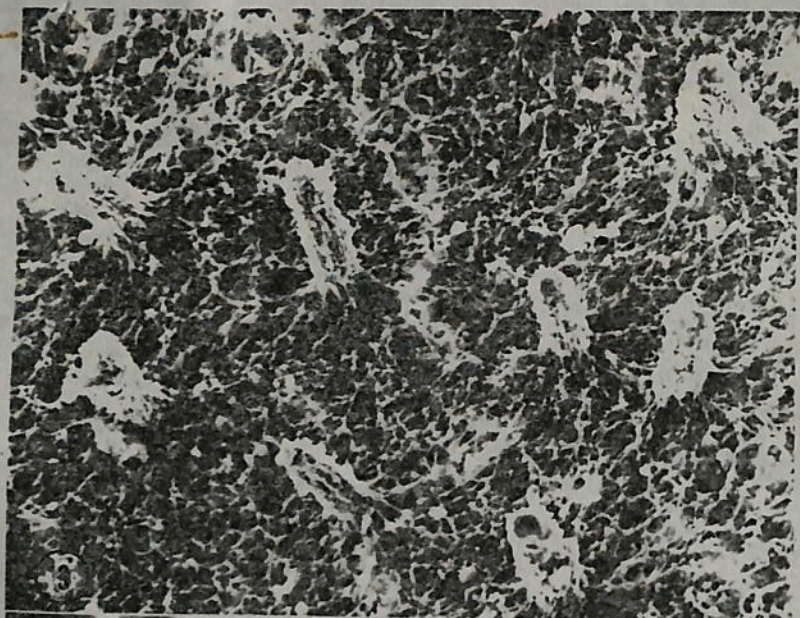
k - 1313R (homobasidio)

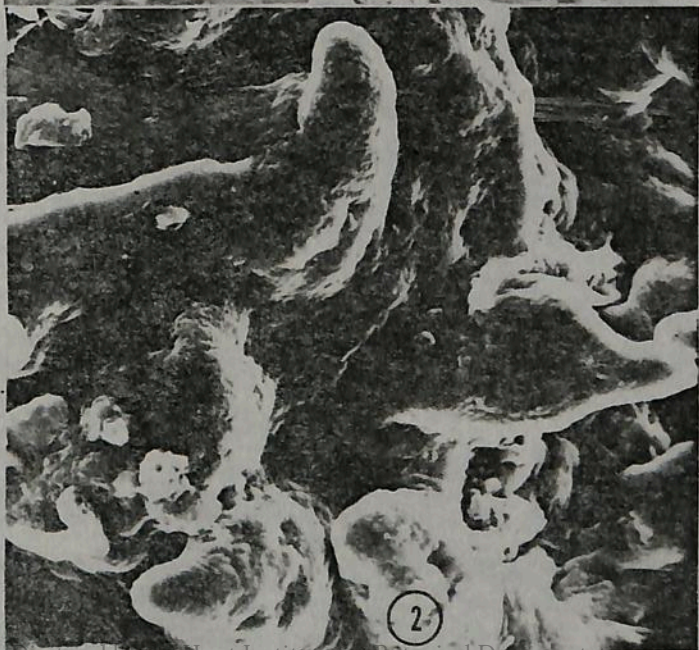
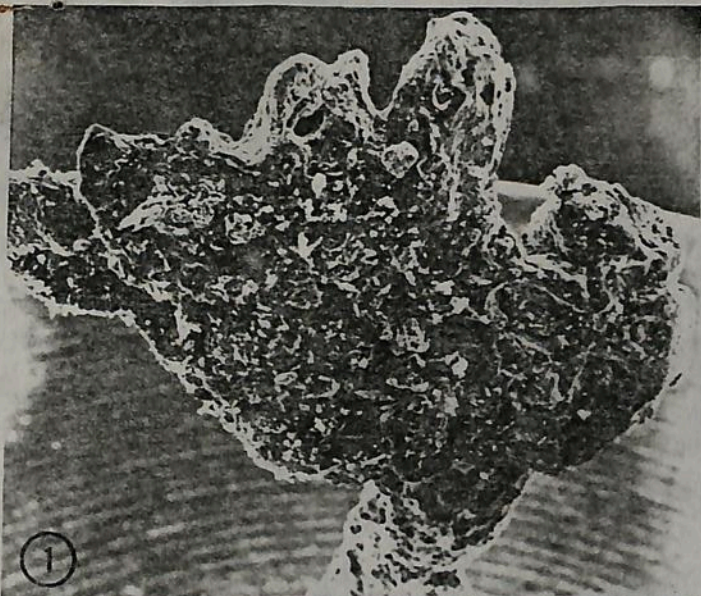
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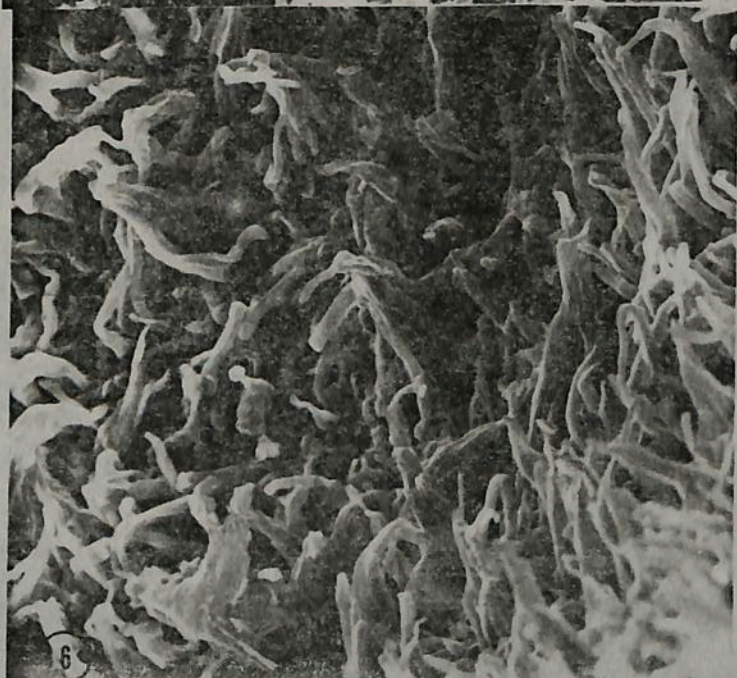
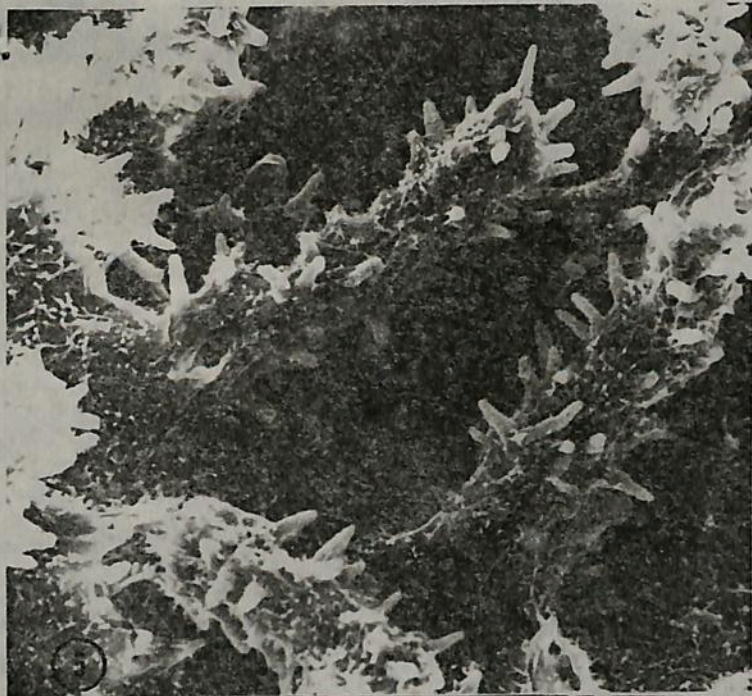


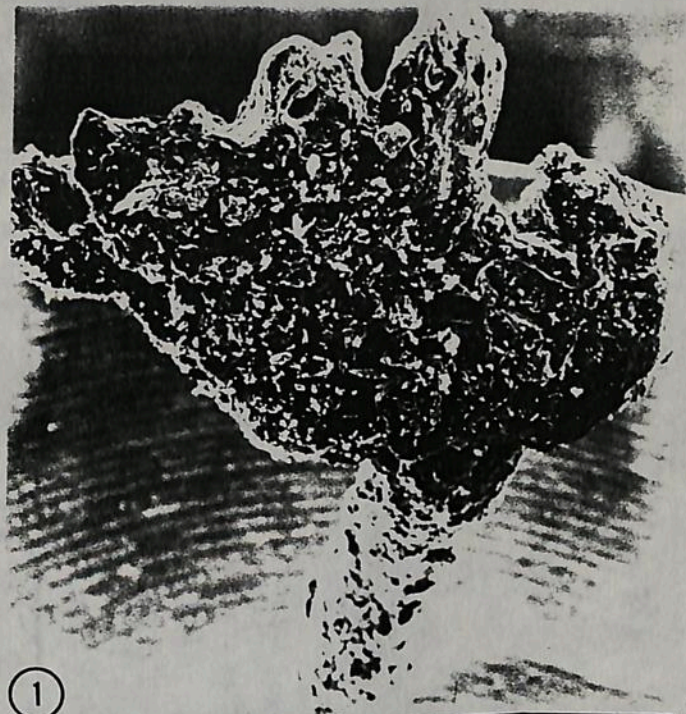










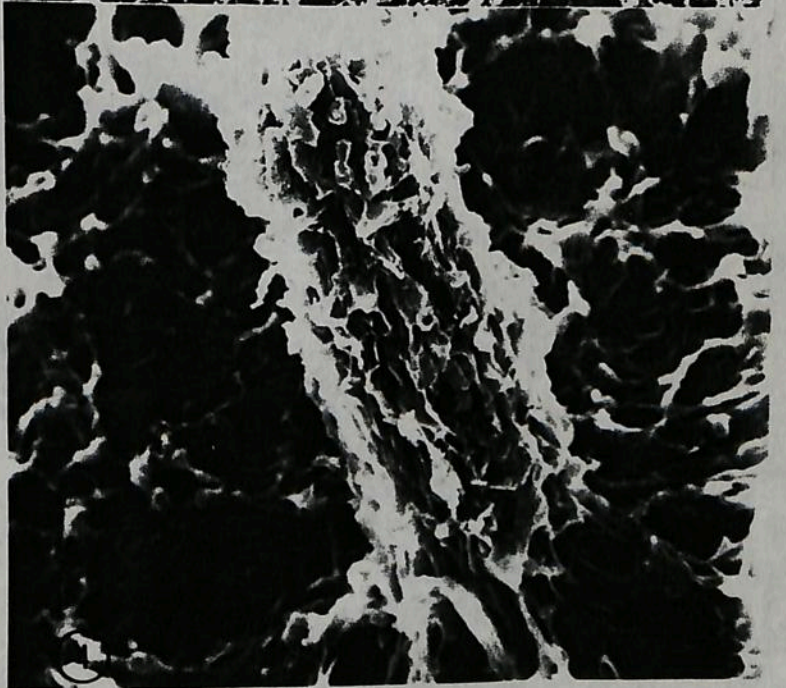
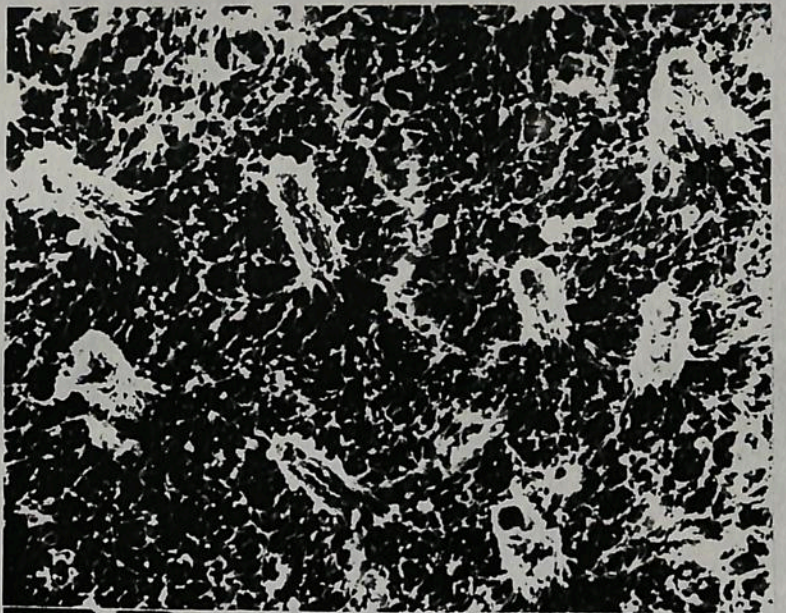


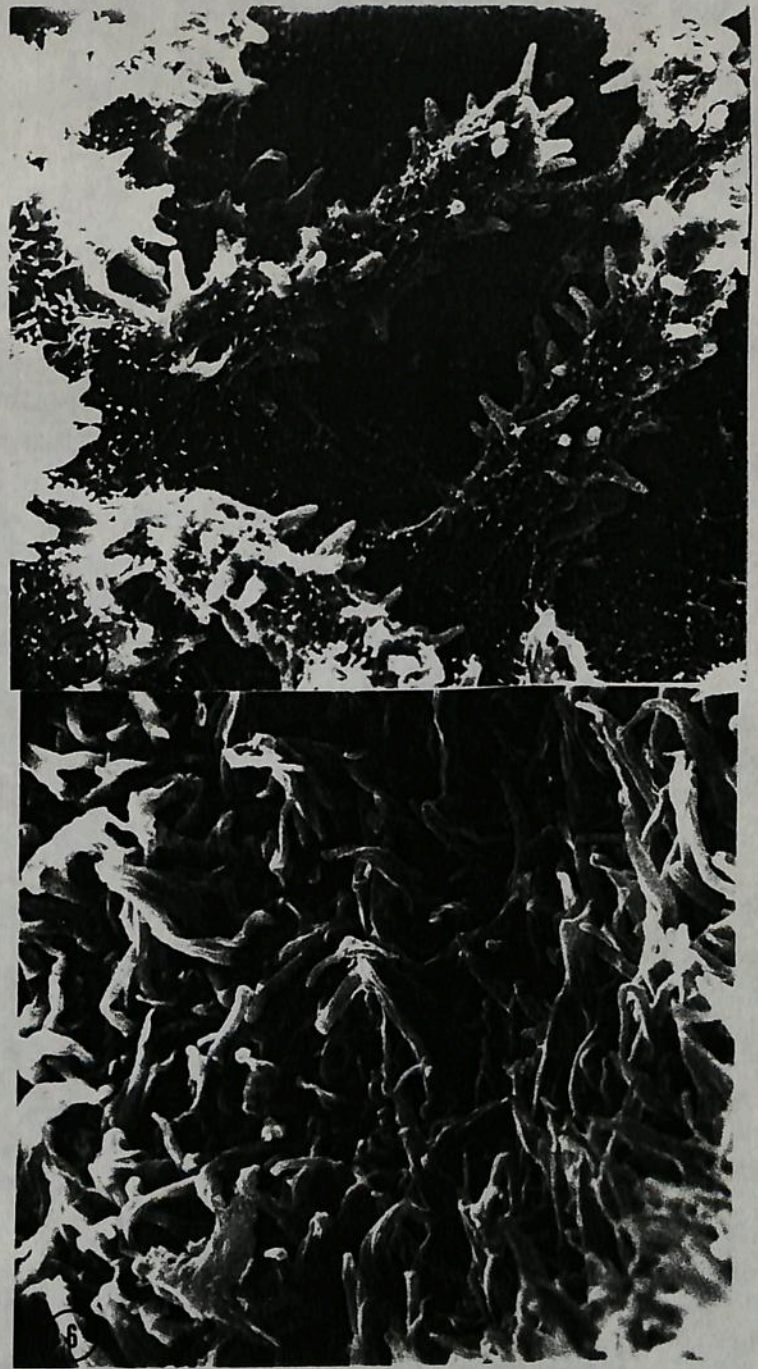
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- Fig. 1. *Dacyopinax crenata* 25X
 Fig. 2. *Exidia maracensis* 500X
 Fig. 3. *Heterochaete bodmanii* 25X
 Fig. 4. *H. bodmanii* 200X
 Fig. 5. *Heterochaetella cystidiophora* 500X
 Fig. 6. *Auricularia fuscusuccinea* 500X

Xerox of original photos





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NEW BRAZILIAN HETEROBASIDIOMYCETES

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ABSTRACT

Three new species of Heterobasidiomycetes are reported from the Ilha de Maracá, Roraima, Brasil: *Dacryopinax crenata*, *Exidia maracensis*, and *Heterochaete bodmanii*. Other collections of Auriculariaceae, Tremellaceae, and Dacrymycetaceae are also listed.

Ilha de Maracá, located at 3°15'-3°35' N. Lat., 61°22'-61°58' W. Long., in the State of Roraima, is one of 16 biological stations designated by the Brazilian government as an ecological reserve. The riverine island, bounded by northern and southern branches of the Uraricoeira river, is one of the largest of such islands known, measuring approximately 65 x 25 km, constituting an area of 92,000 hectares. At present, only a small section at the eastern extremity of the island has been made accessible by trails cut through the forest. The limited access to the island, which requires special permission and carefully scrutinized credentials in order to carry out biological studies there is exemplary, and establishes a model much to be desired in many other regions of Brazilian Amazonia as well.

Dacryopinax crenata Lowy, sp. nov.

Fig. 1.

Fructificatio in humido elastico-gelatinosa, stipitata et pileata, aurantio-rubiginosa, sicca cornea, succina; pileo crenata, rugulosa, usque ad 4 mm late X 1 mm crassa; caulis subcylindraceus, rugosa, 10 mm alt X 1.5 mm crassa; hyphae enodosae; probasidia cylindracea, unicellularis, 15-20 x 3.0-3.5 μ m; metabasidia aseptata, bifurcata, 20-26 x 3-4 μ m; basidiosporae curvulo-cylindraceae, 8-10 x 3.5-4.0 μ m, postremo 1-septatae.

SUMMARY

A preliminary survey of Phragmobasidiomycetes from the Brazilian Amazon revealed three new species: *Tremella riobrancensis* Lowy, *Ductifera elastica* Lowy, and *Dacryopinax maxidorii* Lowy. Ten other species representing the families Auriculariaceae, Tremellaceae, and Dacrymycetaceae previously unreported from Acre and Amazonas were also collected.

INTRODUCTION

In this century the higher fungi of Brazil have been the subject of numerous studies, but many taxa have scarcely been considered and are still virtually unknown or infrequently collected. The tremellaceous fungi constitute one of these groups (Tremellales sensu lato) and Möller's (1895) publication is the first comprehensive treatment of the fungi now generally classified as Phragmobasidiomycetes. For a recent survey of the taxa included within this class, together with diagnostic characteristics of orders and families, the reader is referred to the author's 1982 paper. A Flora Neotropica monograph (Lowy, 1971) is the first attempt since Möller's work to review and revise the morphology and taxonomy of neotropical Tremellales and although numerous Brazilian collections are noted, few of them are from the Amazonian region. A 1980 expedition to Acre jointly sponsored by the New York Botanical Garden and by INPA concentrated chiefly on angiosperms and fungi and the present report is a summary of Tremellales collected at that time including three new species previously described (Lowy, 1981, 1982a).

Tremella riobrancensis Lowy, Mycotaxon 15:95. 1982. (Figs. 1-2) Fructification tough gelatinous when fresh, effused, \pm 650 μ m thick, dark brown, parasitizing perithecia of a pyrenomycete; drying to a rusty brown crust; hymenium \pm 75 μ m wide with basidia arising from clamped hyphae; probasidia subglobose 14-18 (-20) μ m diam; metabasidia cruciate septate, subovoid, (20-) 23-28 (-32) X 15-18 (-20) μ m diam; sterigmata narrow-cylindrical; basidiospores subglobose 10.0-12.0 X 8.5-11.0 μ m with prominent apiculus, germi-

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