

ENDOPHYTIC FUNGI

http://bugs.bio.usyd.edu.au/Mycology/Plant_Interactions/Endophytes/inGeneral.shtml

Rhabdocline parkeri) WRSDFKGLWULEX Chaetomium globosum KHSUHV -

GRSKWHVFRORLH SODW WL VVXH DG UHPDL ZLWKL WKH... DIHZZHHNVRIPHUJHEHKKHFRORLHVUHPDL DVPSWRPDWLF DGVRPHLSHUHLDOSDUWVVDKDYHDYHUORJOLIH

abdocline parkeri produces a compound that reduces needle at- WDE... Phomopsis... Lecanicillium

GRSKWLFIXJL DUHIRXGL DOOGLYLVLVRVRIIXJLVRKDYHSUM... DQGHYHBPHQWRWRDDHRPRQ

Phomopsis... Lecanicillium... Lecanicillium lecanii

SHDQHSOQYHHEHHQDPHGIGORWHV DQHQRWHKYEHEHH... few cases of dispersal have been documented in the wild and the

Chaetomium globosum has been shown to... Presence of Lecanicillium lecanii appears to reduce the feeding

Neothyphodium... KRUL... EHHQHWUPL... DOHWWEHQVPRSRJH... ILKMFVWVPLSHUMWKHILURPKRWWRKRW

QRWHVSSHDW... HSRWEWEDJHQV... HPDQIHNSG

SULDGLSHUDHLWKHULYKHZQRURQHFWRUYSUREDOWKH... few cases of dispersal have been documented in the wild and the

REBGGHED... WEHGHEDWHGD... WDJH... DPHSDQV... HQRWHHDH... DQTEW... GREGYHW... SEDED... http://bugs.bio.usyd.edu.au/Mycology/Plant_Interactions/Endophytes/inGeneral.shtml

WHQVHHEG EHWZHQ... HD... HDGDYDDE... HQRW... DQWKS... WHJ... DQ... DQ... HREYHW... S... P... DGG... W... HQRW... RHD... RHPHQEWKSDQ... R... R...

NATIVE ORCHID TOUR Jamie Notman

MUHVLGHWRIWKHRUWKZHWVUFKLGRLHW... XSRERRV... DURXGWKHXUULFDHLGJH... VXP... ZLWKRIWKHV... JURXS... LWHUHV... WUDVSRUWDWLR

KHDGYHWXUHZLOOEHLR... FHWHUULJKWRDFHWUHHWRXWVLGHRIRUWHOHVMXVWE



HWUDEHLWRWKHSDUNEH

the group has arrived we will begin our native orchid

There will be a sign-up sheet at WK-NPHHWQ

MUSHROOM WALK REPORT

Brian Luther

Hohenbuehelia

Phylloporus rhodoxanthus
Clitocybe nuda

Kuehneromyces mutabilis
Baeospora myriodophylla

Baeospora myriodophylla which has plain brown caps and gorgeous deep

Plectania melastoma which has abundant sparkling rust-colored

myriadophylla which has plain brown caps and gorgeous deep

myriadophylla which has plain brown caps and gorgeous deep

FUNGAL SNARES AND OTHER STICKY ENDS

Else C. Vellinga

Mycena News

Marasmius
Pleurotus

Hohenbuehelia
Pleurotus

Hohenbuehelia species that do this have been known for a long

Nematocionus

Laccaria are able

Hohenbuehelia
Pleurotus

the soils of the grasslands and forests

There is a huge interest in using the nematode-trapping fungi as possible biocontrol agents for those nematodes that cause animal

Further reading:

species of Pleurotus

Canadian Journal of Botany

Mycologia

Further reading:

Canadian Journal of Botany

Mycologia

Mycologia

Mycologia

Science

Science



Pleurotus ostreatus

Tom Volk

WEDWHBQWREGHGHWGJHBNQPE
BQDQKPBBSRNVGHHYHQ
NWRHDEHWVHPWGRVWVWEDQWE
QWBNNEHRHO

QRESNWQW DGGVYVW
IWN:QWVDHGHYHSDWBNRQ
WHEVDQPGVWVDEWU
SDQWQPVHWDRHRQW

QKHDKDGDYDHYRJHHRHQDQRHV
ZHYYHPSHDWVHWRYHDMWQWV
KDWBQPRVHFWVKHHRQWV
BNYHEHRHMNDHPYHWK
MQVSNVWVWIDQWVGGHYHIIHWV
WDNWRVPHWVQDDPSBEDVWVYHVVHWHWG

and receive a long-distance
DQWVJHQDW
2WHVGHWHF
tion and diagnosis would be
TNDQVKS
HHRH



NASA

FUNGI ENLISTED TO CLEAN UP DEPLETED URANIUM

Kate Melville

Science A Go Go

QLFRYHUWKVFRGKDLPSRUWV LPSOLFVLRURU WKH
FOHRIDUVDHGFRLVULHVMHDFKHUKDHIRGSHYLGHQ
WKVILFDRENGHSHOHWHGKORLVRDLUDIRUPWKV
RGEHOHVLNHOWRQLWVRSODVDPDRUWKH
VHUXSO

HSHOHWHGKDLMSURGXWRIWKHHQLFKPHVSURFHMVGR
FUHVHKDQWKHLRWRSHKLFKLMGLQOHDVSRQ
QUHDWRUWLDPRWVZFHDHHDHJLYLQVHRXK
NLQWLFHQUJWREOVWKURXKWKHWRXKDPURIRVQKH
HSDWPHQRIQUJFRGHHUGHSOHWHGKQVREHWH
PVHULDQLWLUVHHDVDOBOHWRPQWLRQVWKHUV
QWLRQVSOHWWHGKQVRSYHULHVQRGWRQ
LPSQWKHUHLWFDHLQDHGRUMHSLVWRWKRLO



(WLPVHRIHSHOHWHGKDLQV
DRVWRWDPRUWKVVRQK
other regions around the world such as
WKNQVDWHDMHWHGHSOHWHG
uranium is linked to birth defects and
BQVWEDWHGKQVREHWH
HDM

There has been little investigation into
how an affected environment could be
HDQGXDIWHDVEXHHQ
KKGQ
Current Biology
UHMDFKHUVWKHVDYHULVRIHH

LFRWOQLQLFVHWKVDXHPDHOHWROHQDKLV
RUNSURYLGHHVQWKHUHPSOHRWKHLQVHGLEOHSURSHUVE
microorganisms in effecting transformations of metals and miner-
DQWKQVBNQRHQVQGHVIRHPGG
MDMIDHSHIHWVHGDEHRPBDJHQV
RWHQQVHWHEVDSVHGMQSDPPDQ
the establishment and survival of plants through their association

LWURRWVIQJDOEDVHGSSURDFHVMROGQRWEHQHJOHF
UHPHGLDWLRQDWWHPSWVIRUPHWDOSROOWHGVRLOVQ

QVHQHMVGVHUVHVDUFHUVIRQGWVWVHHOLLQJQDQSG
VPELRWLFBERUULDOITQJLEDQERORQLHGHSOHWHGUDQ
VUIDEHVDQGWUDQVIRUPWHPHWDOLQWRUDQOSRVSDWH
“The fungal-produced minerals are capable of long-term uranium
HWHQVNDKSSHYHQVWDRNRESQV
DQDQPRHWPVWVGHYHQVKSQVBN
IRHNVIRWKNVSDHGG

The process involves a combination of environmental and biologi-
EDVWVKNVDEHNRPHWDCHVVRWHGVK
DHSHWVQVKHQRHQVDMHWK
GHSOHWHGKQVREHWHQVQVQV
:QWKVKSBNDEKVDQ
SHWKGHSOHWHGKQVHYHQVRRHWKQVQV
produced include organic acids that convert the uranium into a
form that the fungi can take up or that can interact with other com-
SQVWEDWHQVQVHVDVNRHNRQ
with phosphate leads to the formation of the new uranium minerals
WQVJHWHGHSVHGDKVKNVQVQV

HBYHNVVWPHWQVWVQVQVPHWQV
NVRQVQVHDSDEHQRVHNRQ
HWHQVQVHMDKQVHGKQVQV
be relevant to the future development of various remediation and
HYHJHWDVQVHNRNSVHGQ

PRESIDENT’S MESSAGE

Patrice Benson

DPWSQJWKLVRDODFNEHUUVRPWKHEHOIURIWKKHWHW
GHVXOLHOUVLUDEFHHDURLWLHURDHRXJLVKUH
WRRDVZHHHGHGDYDFEDWLRDIWHUWKDWZRGHUIXOUVWV
DLDDWVKHXUNHXVHXPRDWK

LWBHPEHUVSDUWFLSDWHGDORJZLWKPFRORJLVWVUV
RVHSKPLUDWLWHYHUXGHOOVFKHOHHLGOVWVKHULHON
DGHODDZHWVHGDVHLEFOXGHGQKRSDLGDGPLVLR
WRVHHWKHKKLELWVZHOODVXUNHXVHXPPHPEHUVVQZV
VLJHGXSDEXWHLJKVHZPHPEHUVWRVZDVVGDHOLJKVIX
HSHULHEHIRUHYHUERGKDNVWRDOOZKRPDGHWKLVSVM
HVSHFLDOOVLHWHLDGDUODGHURIWKKXUNHIRUWKH
VXSSRUWQVGHYHORSPHWVGSODVQVDOODFFRXVWLVZDV
VXFFHVVDGVKRXOGEHFRPHDHDUOWUDGLWLR

We will be losing three dedicated and hard-working board mem-
EHVWPHU QCHYQVHDQVQV
QHPKQVQVQVQVQVQVQV

KPNVHQVQVQVQVQVQVQV
DIWHDVNRHQVQVQVQVQV
DVKHKKHHDWRVQVQVQVQVQV
DQVQVQVQVQVQVQVQVQV
DENNRKHVQVQVQVQVQV

YAHOO DISCUSSION GROUP

DVWRVWDLWRXFKRYHUVKHXVPPHUKHHPDLOGLVFXV
NPDVQVQVQVQVQVQVQVQV
QVQVQVQVQVQVQVQVQVQV
HYHQVQVQVQVQVQVQVQVQV
WKGHWVQVQVQVQVQVQVQV
SDJHRIWHQEOEURVWHU
<http://www.psms.org>

KURRPVHSRSLQKRLD
EEDDODRWKHP

Fungi EHGLOLFKILHOG FHOHEU
LWOKLORQWLRQWKWRYH
FRKMPKURRPGLEUWHYH
LQKRRKQVDRUG
LQOBHHRQGD

ULWWGRI5LFKHOGKRKROGV
ORFWRUWHLOFRORJWKHWRRI
PKURRPWKHSEOLKHUQHGLWRU
LQKLHIRIWKHOFORORUPDFDOHG Fungi

Fungi POHLWGHEW WKLPRQKQZOOSEOLKYH WLPHD
HDIRKMOQLMORHSHFLDWKHPHGLM KLV
HDVHFLDLMGALDODOZOEHGHGLFVHGWRWUAV
LQOGLQVKRHIRQLKSHFWHGSOBHWKHGHUWQ
VHJRGDG

KHPDLPHGVDVHEQSURIHVRDPFRORJLWV
DLNHQLWRIIHULQOOLEQGHKRWRDWLFOHROVRSLFK
BOWLYDLOPKURRPVIOOBHUUHYLHZG WHFKQFD
SSHUV

SWLFOHMKHLKDLMLQGHKURRPRYHRUHOV
6HROLWAGLWDLROHEUWLRORPSOHWHZWKUHFLSHQ
BRWKIRIDLIIHUHQRUWWKHVFLHQLFDORULHQHGR -
PHWHBNGDDQVIBHNOHV
DQMIHQVSHRIRIWDNH
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SRGFKRLFHIRUWULQGLQKHKPRUHODHKRZQ
SLQKHKRGQWKHPDNHWKHDKHDSUHSDHGWKLV
CHUYHWKLZWKIUHKEDJRYHQRVHGSRWDRHV

SRQYHDKRQGHUURVHOOWULPPHGOWLHG

2 TBs butter

KNON

SHHROMGHDVKNEM

KMDYHDP

Salt and pepper to taste

Dash of nutmeg

BKDWWKHQKRWVWKHQ
QKEXWHGKWKVKNVPRHIRWKKDWDD
SHHGHGSDSHGHVQVWPKPHDWDQWQHVK
SWDQVKKHVKWPKPHDWWHQHU

BWKPRQSDHQVpSDVKKHDPDQ
EPHIRVHWVKKHDPKEHHQENHGE\
WKPMDVWVSHSSHDQVPHJ

BPRHVRIRSDQHRVIGEGVW
RWKSDVWVWPKPRQKQDWDQMVHVKH
BW

Serves 6.

This will be the last newsletter until September.
Have a good summer!



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