incognita, M. javanica, M. graminicola, M. arenaria, M. chitwoodi, M. hapla or *M. paranaensis*); *Heterodera* spp. (e.g. *H. oryzae, H. glycines, H. zeae* or *H. schachtii*); *Globodera* spp. (e.g. *G. pallida* or *G. rostochiensis*); *Rotylenchulus* spp. (e.g. *R. reniformis*); *Pratylenchus* spp. (e.g. *P. coffeae, P. Zeae* or *P. goodeyi*); *Radopholus* spp. (e.g. *R. similis*); *Hirschmaniella* spp. (e.g. *H. oryzae*); *Ancylostoma* spp. (e.g. *A. caninum, A. ceylanicum, A. duodenale* or *A. tubaeforme*); *Anisakid; Aphelenchoides* spp. (e.g. *A. Besseyi*); Ascarids; *Ascaris* spp., (e.g. *A. suum* or *A. lumbridoides*); *Belonolaimus* spp.; *Brugia* spp. (e.g. *B. malayi* or *B. pahangi*); *Bursaphelenchus* spp.; *Caenorhabditis* spp. (e.g. *C. elegans, C. briggsae* or *C. remanei*); *Clostridium* spp. (e.g. *C. acetobutylicum*); *Cooperia* spp. (e.g. *C. oncophora*); *Criconemoides* spp.; *Cyathostomum* spp. (e.g. *C. catinatum, C. coronatum* or *C. pateratum*); *Cylicocyclus* spp. (e.g. *C. insigne, C. nassatus* or *C. radiatus*); *Cylicostephanus* spp. (e.g. *C. goldi* or *C. longibursatus*); *Diphyllobothrium; Dirofilaria* spp. (e.g. *D. immitis*); *Ditylenchus* spp. (e.g. *D. dipsaci, D. destructor* or *D. Angustus*); *Enterobius* spp. (e.g. *E. vermicularis*); *Haemonchus* spp. (e.g. *H. contortus*); *Helicotylenchus* spp.; *Hoplolaimus* spp.; *Litomosoides* spp. (e.g. *L. sigmodontis*); *Longidorus* spp. (e.g. *L. macrosoma*); *Necator* spp. (e.g. *N. americanus*); *Nippostrongylus* spp. (e.g. *N. brasiliensis*); *Onchocerca* spp. (e.g. *O. volvulus*); *Ostertagia* spp. (e.g. *O. ostertagi*); *Parastrongyloides* spp. (e.g. *P. trichosuri*); *Paratrichodorus* spp. (e.g. *P. minor* or *P. teres*); *Parelaphostrongylus* spp. (e.g. *P. tenuis*); *Radophulus* spp.; *Scutellonerna*. spp.; *Strongyloides* spp. (e.g. *S. Ratti* or *S. stercoralis*); *Teladorsagia* spp. (e.g. *T. circumcincta*); *Toxascaris* spp. (e.g. *T. leonina*); *Toxocara* spp. (e.g. *T. canis* or *T. cati*); *Trichinella* spp. (e.g. *T. britovi, T. spiralis* or *T. spirae*); *Trichodorus* spp. (e.g. *T. similis*); *Trichuris* spp. (e.g. *T. muris, T. vulpis* or *T. trichiura*); *Tylenchulus* spp.; *Tylenchorhynchus* spp.; *Uncinaria* spp. (e.g. *U. stenocephala*); *Wuchereria* spp. (e.g. *W. bancrofti*); *Xiphinema* spp. (e.g. *X. Index* or *X. americanum*).

[0113] (2) a nematode capable of infesting humans such as, but not limited to: *Enterobius vermicularis*, the pinworm that causes enterobiasis; *Ascaris lumbridoides*, the large intestinal roundworm that causes *ascariasis; Necator* and *Ancylostoma*, two types of hookworms that cause ancylostomiasis; *Trichuris trichiura*, the whipworm that causes trichuriasis; *Strongyloides stercoralis* that causes strongyloidiasis; and *Trichonella spirae* that causes trichinosis; *Brugia malayi* and *Wuchereria bancrofti*, the filarial nematodes associated with the worm infections known as lymphatic filariasis and its gross manifestation, elephantiasis, and *Onchocerca volvulus* that causes river blindness. Transfer of nematodes to humans may also occur through blood-feeding mosquitoes which have fed upon infected animals or humans;

[0114] (3) a nematode capable of infesting animals such as, but not limited to: dogs (Hookworms e.g. *Ancylostoma caninum* or *Uncinaria stenocephala*, Ascarids e.g. *Toxocara canis* or *Toxascaris leonina*, or Whipworms e.g. *Trichuris vulpis*), cats (Hookworms e.g. *Ancylostoma tubaeforme*, Ascarids e.g. *Toxocara cati*), fish (herring worms or cod worms e.g. *Anisakid*, or tapeworm e.g. *Diphyllobothrium*), sheep (Wire worms e.g. *Haemonchus contortus*) and cattle (Gastro-intestinal worms e.g. *Ostertagia ostertagi, Cooperia oncophora*);

[0115] (4) a nematode that causes unwanted damage to substrates or materials, such as nematodes that attack foodstuffs, seeds, wood, paint, plastic, clothing etc. Examples of such nematodes include but are not limited to *Meloidogyne* spp. (e.g. *M. incognita, M. javanica, M. arenaria, M. graminicola, M. chitwoodi* or *M. hapla*); *Heterodera* spp. (e.g. *H. oryzae, H. glycines, H. zeae* or *H. schachtii*); *Globodera* spp. (e.g. *G. pallida* or *G. rostochiensis*); *Ditylenchus* spp. (e.g. *D. dipsaci, D. destructor* or *D. angustus*); *Belonolaimus* spp.; *Rotylenchulus* spp. (e.g. *R. reniformis*); *Pratylenchus* spp. (e.g. *P. coffeae, P. goodeyi* or *P. zeae*); *Radopholus* spp. (e.g. *R. Similis*); *Hirschmaniella* spp. (e.g. *H. oryzae*); *Aphelenchoides* spp. (e.g. *A. besseyi*); *Criconemoides* spp.; *Longidorus* spp.; *Helicotylenchus* spp.; *Hoplolaimus* spp.; *Xiphinema* spp.; *Paratrichodorus* spp. (e.g. *P. minor*); *Tylenchorhynchus* spp;

[0116] (5) virus transmitting nematodes (e.g. *Longidorus macrosoma*: transmits prunus necrotic ring spot virus, *Xiphinema americanum*: transmits tobacco ring spot virus, *Paratrichadorus teres*: transmits pea early browning virus, or *Trichodorus similis*: transmits tobacco rattle virus).

[0117] Fungal pests of particular interest include but are not limited to the following. In one embodiment of the invention, the fungus may be a mold, or more particularly a filamentous fungus. In other embodiments of the invention, the fungus may be a yeast.

[0118] In one embodiment the fungus may be an ascomycetes fungus, i.e. a fungus belonging to the Phylum *Ascomycota*.

[0119] In preferred, but non-limiting, embodiments of the invention the fungal cell is chosen from the group consisting of:

[0120] (1) a fungal cell of, or a cell derived from a plant pathogenic fungus, such as but not limited to *Acremoniella* spp., *Alternaria* spp. (e.g. *Alternaria brassicola* or *Alternaria solani*), *Ascochyta* spp. (e.g. *Ascochyta pisi*), *Botrytis* spp. (e.g. *Botrytis cinerea* or *Botryotinia fuckeliana*), *Cladosporium* spp., *Cercospora* spp. (e.g. *Cercospora kikuchii* or *Cercospora zaea-maydis*), *Cladosporium* spp. (e.g. *Cladosporium fulvum*), *Colletotrichum* spp. (e.g. *Colletotrichum lindemuthianum*), *Curvularia* spp., *Diplodia* spp. (e.g. *Diplodia maydis*), *Erysiphe* spp. (e.g. *Erysiphe graminis* f. sp. *graminis, Erysiphe graminis* f. sp. *hordei* or *Erysiphe pisi*), *Erwinia armylovora, Fusarium* spp. (e.g. *Fusarium nivale, Fusarium sporotrichioides, Fusarium oxysporum, Fusarium graminearum, Fusarium germinearum, Fusarium culmorum, Fusarium solani, Fusarium moniliforme* or *Fusarium roseum*), *Gaeumanomyces* spp. (e.g. *Gaeumanomyces graminis* f. sp. *tritici*), *Gibberella* spp. (e.g. *Gibberella zeae*), *Helminthosporium* spp. (e.g. *Helminthosporium turcicum, Helminthosporium carbonum, Helminthosporium mavdis* or *Helminthosporium sigmoideum*), *Leptosphaeria salvinii, Macrophomina* spp. (e.g. *Macrophomina phaseolina*), *Magnaportha* spp. (e.g. *Magnaporthe oryzae*), *Mycosphaerella* spp., *Nectria* spp. (e.g. *Nectria heamatococca*), *Peronospora* spp. (e.g. *Peronospora manshurica* or *Peronospora tabacina*), *Phoma* spp. (e.g. *Phoma betae*), *Phakopsora* spp. (e.g. *Phakopsora pachyrhizi*), *Phymatotrichum* spp. (e.g. *Phymatotrichum omnivorum*), *Phytophthora* spp. (e.g. *Phytophthora cinnamomi, Phytophthora cactorum, Phytophthora phaseoli, Phytophthora parasitica, Phytophthora citrophthora, Phytophthora megasperma* f. sp. *soiae* or *Phytophthora infestans*), *Plasmopara* spp. (e.g. *Plasmopara viticola*), *Podosphaera* spp. (e.g. *Podosphaera leucotricha*), *Puccinia* spp. (e.g. *Puccinia sorghi, Puccinia striiformis, Puccinia graminis* f. sp. *tritici, Puccinia asparagi, Puccinia recondite* or *Puccinia arachidis*), *Pythium* spp. (e.g. *Pythium aphanidermatum*), *Pyrenophora* spp. (e.g. *Pyrenophora tritici-repentens* or *Pyrenophora teres*), *Pyricularia* spp. (e.g. *Pyricu-*