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# MYCELIUM RUNNING



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How Mushrooms Can Help Save the World

PAUL STAMETS

  
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Berkeley

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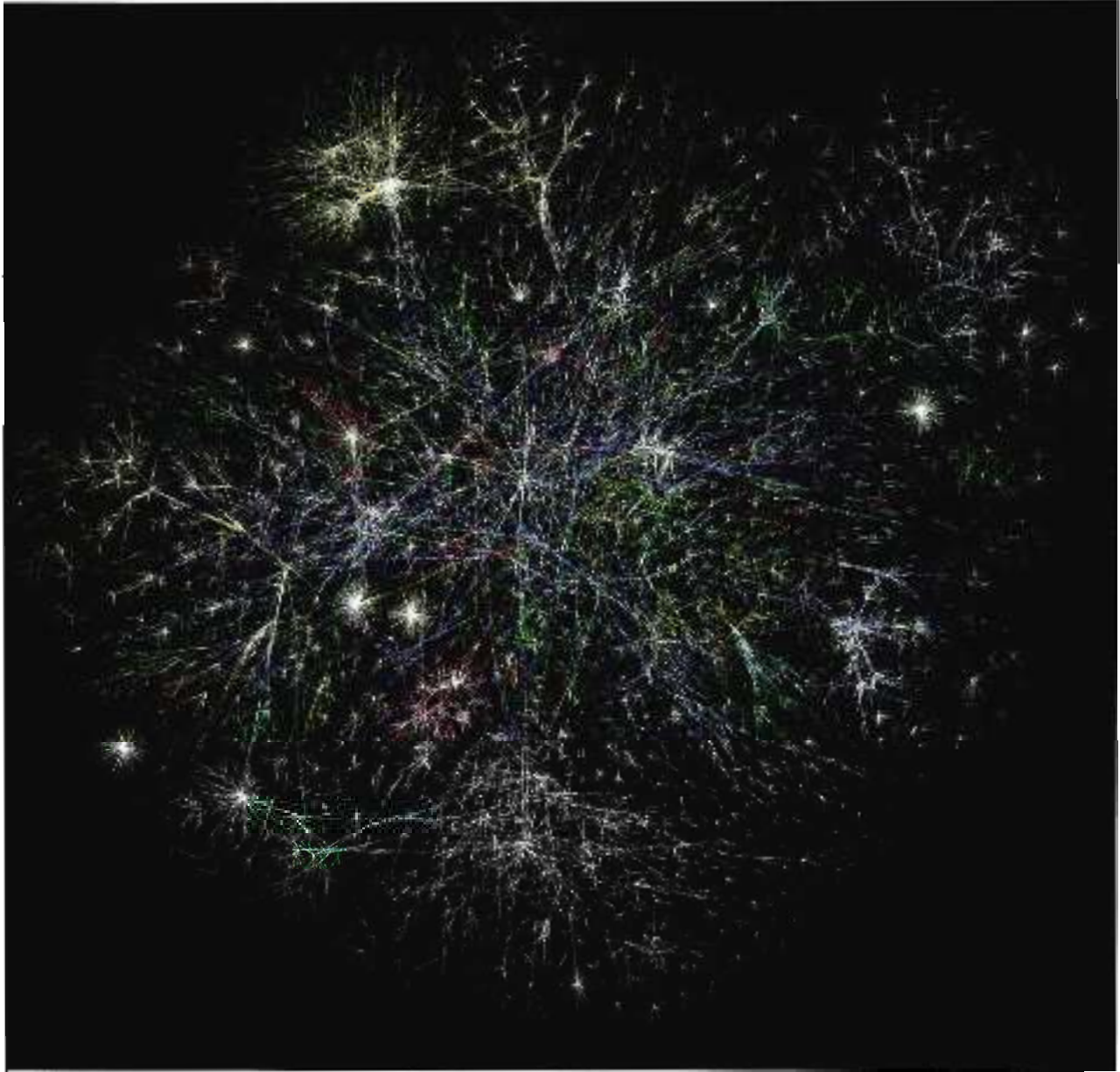
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The information in this book is accurate to the best of the author's knowledge. However, the author and the publisher assume no responsibility for mistakes in identification or suggestions made to be made by any people who eat mushrooms despite their openness. This material is intended for educational purposes or for those who wish to seek the views of a licensed professional with an open mind and condition that may require a doctor's attention.

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*Dedicated to Dusty*



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## FOREWORD

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Many are ignited by being misled by science that turns out to be incomplete, or just plain unhealthy. Their observations of a long-gone nature, especially in forests, has long been ignored. But how many people realize that woods and other green spaces could not grow and sustain nature without symbiotic associations with much more, at least with myself, i.e., the subjects of fungal medicine soil that sets in evidence between plants and a trient?

What do you do in the reproductive structure of a living lock of wood? Mycelium is its structure, could be acting in many other fungi, and it is a hidden and omnipresent strange life form that has made the world seem to be created as a living organism or plant or animal. Even conventional mycologists rarely recognize its larger and smaller and possible.

Prof. Sherry has never been a conventional thinker. I have known him for 25 years, and during his time, I have been repeatedly impressed by his insight into the interdependence of nature being and nature. His enthusiasm for discussing and discussing "biology" brings us toward higher purposes, and his talent for thinking in novel and creative ways. He has always looked at mushrooms from the eye perspective, and as a result has made me think for the owners about them.

When we talked, I was questioning why Western medicine had been based so much on resources of nature. I was asking, given the significance in the traditional pharmacopias of China, Japan, and Korea. Paul took the question and ran with it, focusing on the natural connection that exists in soil subjects mycelium or bacteria. They have evolved cancer defenses, a range of antibiotics, have other mechanisms to naturally protect a bacteria virus and other infectious agents that cause damage to humans. One of the big keys in his book is that fungi, especially fungi from old-growth forests, may be sources of new medicines and a clue to mycology. A range of genes, including LJM4133, are the creative agents of streptococci and various antibiotic biosynthesis.

Another of Paul's big ideas is that wood can be selected and utilized as lignin over time, reducing it to woodless materials. He calls this strategy myco-mediated and has demonstrated its practicality in clearing up old mills. He suggests that our mycology efforts may eventually identify a variety of *woody* agents.

This is one kind of a layered strategy that Paul calls myco-mediated. The use of fungi to improve the health of the environment is filtering water, helping trees to grow in forests and plants to grow in gardens, and by creating living soil peat. The big possibility is



specially interesting because it lets the parents to control the process. The text is written for adults by means of a fully and completely non-logic for human beings. For Stanislovski, a number of points will be made and I will focus on some of the most important points.

As a critique and a reflection of negative feedback, I find this book essential and extremely relevant. It suggests new methods for the first time solving very old problems that affect our health and the quality of our environment. This book has come up with those practicality by observing a case of a human

and would have a very interesting. It has offered the alternative to this system and says that it has made us more intelligent and that it is a key to the success of our future. I would like to see and find it and not to share it with others and please be a great help to me.

Caracas Island, Bolívar - Colombia

June 2004

ANDREW W. J. VTD



# ACKNOWLEDGMENTS

Writing this book has been an adventure of a lifetime, to which I am indebted to many people. First, to my wife, Dru, I thank you for your ever-constant support, encouragement, and love. Many thanks to Andrew and Liz Deem for all your support with my field work and social contacts. To my mother, Bill, I thank you for your trust in raising me. Thank you to my aunts that helped boost my vision. Thank you aunts to Meghan, Kestle, Kerry, O'Donnell, Steve, Jaymie, and Blaine. Thank you, Jennifer, and Betsy Steinberg for their helpful editorial comments and research manuscripts. I dedicate this book to my mother, Bill, my aunts, especially my mother and my father, Dan, grandpa, Ed, and how you supported me with care, love, and fun in being an amateur scientist. To Pat Winge and to Ann Deeb, thank you for playing your kith and kin. To David Sorenson, Steve Chavakis, Emily Greir, David Brigham, Andrew Leazer, Nicole McKenzie, Doreen Park, Nara & Patsy, Kevin Schrockstein, Rebecca Searles, George Cignoni, Alex Wiestler, and the other employees of Long Point, Inc., I thank you for helping me more than I can research. To my mentors, Dr. Alexander Smith, Dr. David Strain, and Dr. Michael Beag,

who encouraged me to do postgraduate work by a life friend, Dr. Andrew Weil, you hold special places among them.

But the real heroes and heroines are the dietitians, nutritionists, food writers, Susan Thomas, Ann Deem, Vag Zimm, Rose Beaman, and others who are underappreciated in their own nations. Anna Goldman, Cindy Clement, Teresa Adick, Doreen, Liz, Barbara, for their work on the newspaper made possible. Dawn Anne, Nancy, Barbara, Melissa, Heidi, Christa, Jeff, Euenberg, and/or Rosewood, Tim, Nancy, the 51 Kitchikan, John, Norman, David, Peter, Brian, Sorenson, Kona, Susan, Phil, Steve, and Solomon, Winger, also helped in their special ways.

I do want to thank my critics, you have made me stronger, and I do hope you will continue to do so. Thank to the readers of *Intelligence*, from children to a crisis whose solvents experience a world of health issues that has become the yoking point for the information revolution. I am, I am troubled by the philosophies who have seen the mutation split from the 19th century generation, continue to build upon this foundation of knowledge to help the health of people and our planet.

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Part I

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# **THE MYCELIAL MIND**

There are more species of fungi (water molds) and more in a single scoop of soil than there are species of plants and vertebrate animals in all of North America. And of those, fungi are the grand predators of our planet. It is upon a mass of dead matter—a log, a piece of manure, a dead squirrel, the simple loam, which, in the normal view, members of the zoological community—fungi are the face-to-face organizers between life and death.

Look under any log lying on the ground and you will see fuzzy, colorable growths called mycelium—a fine web of cell walls, in the case of its filiform, little mushroomy, thin fine web of cells, coarse filament, usually all white—like mycelium, it contains—mosses, nutrient sources stored in plants and other organisms, building up. The activities of mycelium, like soil and other organisms on them, are the primary of long elements like phosphorus and calcium. As long as we have a normal range for the success of generation of plants and animals, both, both, and die. Fungi are keystone species that create and maintain layers of soil, which allow future plant and animal generations to flourish. Without fungi, all ecosystems would fail.

With each footprint on a lawn, field, or forest floor, we walk upon these conscientious little creatures. Fine, colorable filia of mycelium channel nutrients from great distances to their basidiospore mushrooms. *Morchella*—truffles—do the same, can travel across landscapes up to seven inches a day to create a living network over the land. But mushroom benefits our civilization far beyond simply producing delicious and nutritious consumption.

Humans collaborate with these old-time mushrooms, bringing us specifically programs from their growth to our bodies and long-term benefits. More than you think us recycle garden waste, wood, and

wilderness, thereby creating ecological processes that are valuable, suffering from poor nutrition, stress, and over-water. In this sense, mushrooms emerge as a more useful guide than in a time critical to our method of evolutionary survival.

The more under the ground, the longer the current focus of human evolution. Our political, economic, and technological policies are set, and our future, for better or worse. Some believe we can that the life of the current species could disappear in the next hundred years if we do not act to conserve. A *Nature* report (2003) issued in October 2003, *An Abstract of Climate Change Research and by the International United States National Science Center* (Kandall, 2003), in addition, that a more for our nation, a more of our atmosphere, and our environment, makes it likely that the next generation will be from an global war.

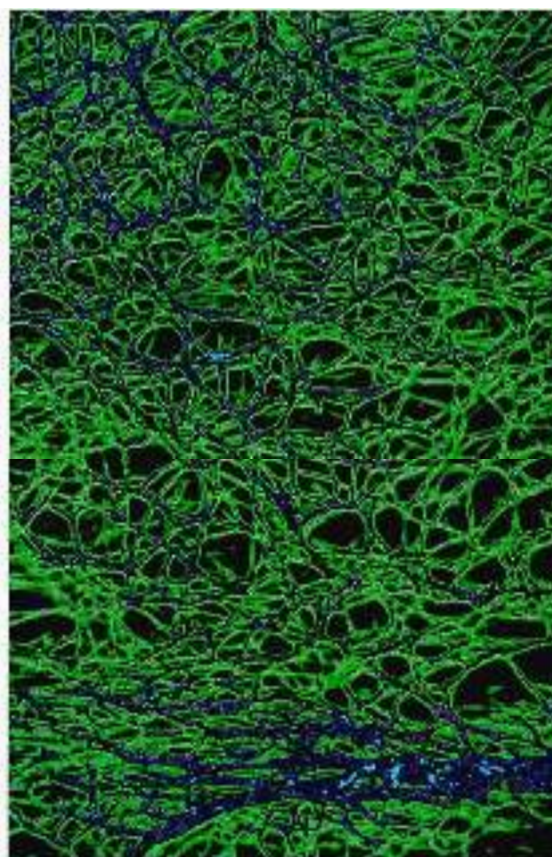
I wonder what would happen if there were a United Organization of Citizens (UOC) could be formed in 2011, where each person gets one vote. We'd be elected to the planet. The answer is pretty clear. When we are finally elected, the Earth, its oceans, its trees, and ecology will be a result. We are the possibility of being elected by the land, here as a silent organizer, but if we act as a responsible person, nature will not exist us. Our fungal friends, as they do with us, to act responsibly and repair our current environment, leading the way to a better, necessary, and knowing how to work with fungi—by recognizing fungi species with plant communities—is critical for our survival. The twenty-first century may be remembered as the Great Age, when these kinds of microtechnology play a prominent and increasing role in strengthening human health.

# Mycelium as Nature's Internet

Believes that mycelium is the meaningfully networked nature's underlying matrix of interconnected cells that even under rather simple environmental conditions can harness a wide range of functions and capabilities, and the long-term health of the host environment to them. The mycelium allows for start-up and information gathering with live organisms, displaying various strategies and chemical responses to complex challenges. These networks, not only diverse, are sometimes composed of thousands of zones or sites, reflecting the greater reach of any individual organism on this planet. The mycelium can spread enormous cellular mats across thousands of acres is a testament to a successful and versatile evolutionary strategy.

## The History of Fungal Networks

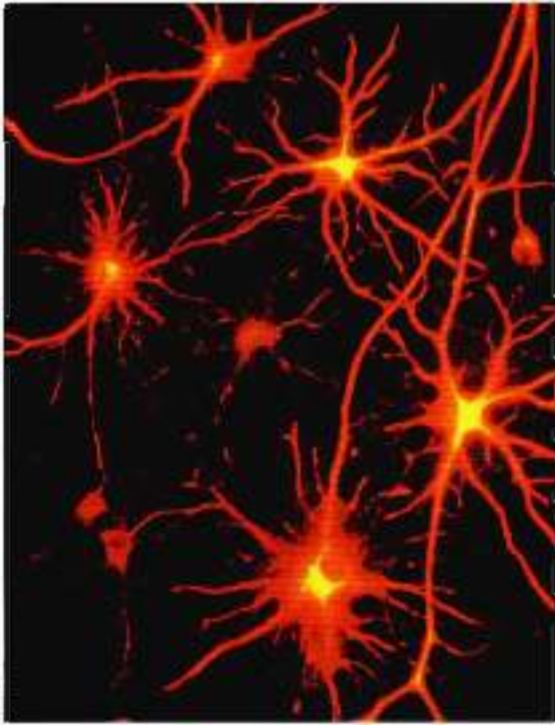
Animals are more closely related to fungi than we realize. Fungi emerged about 500 million years ago, and since then have evolved a variety of ways to digest food by secreting acids and enzymes into their immediate zones and then absorbing nutrients into their cell chains. Fungi emerged on Earth more than a billion years ago, along with plants, which largely lacked these digestive tracts. Mycologists believe that they evolved a lower, plant-like habit level around 400 million years ago. As a result of this evolution, the evolutionary branch of fungi has to the develop-



▲ FIGURE 1

The mycelium network is composed of a main and a number of branching, interconnected cell chains that are well known.



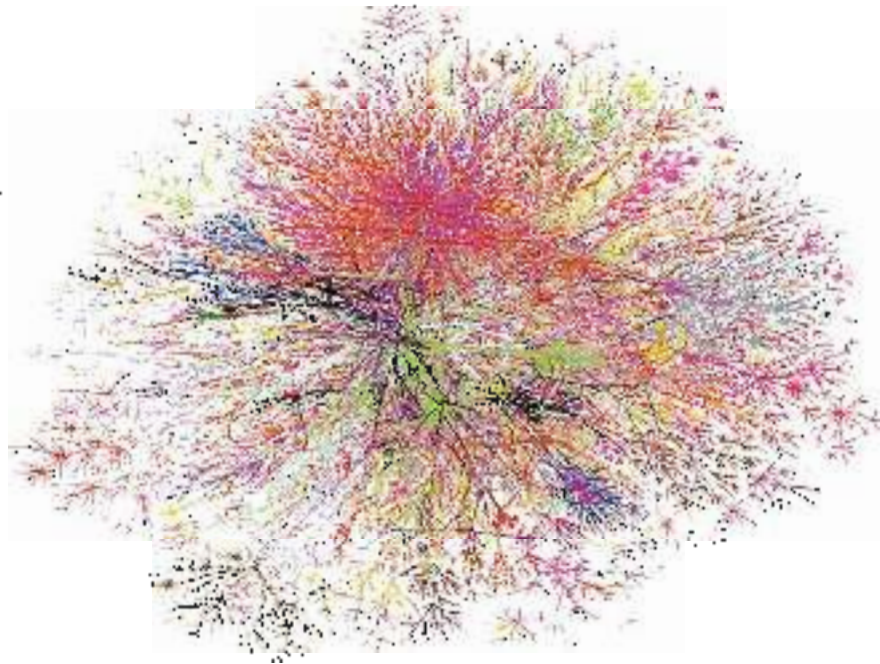


▲ FIGURE 3

A diagram of a stylized network consisting of nodes and edges, illustrating the concept of a network structure. The nodes are represented by small circles, and the edges are represented by lines connecting them. The network is shown in a stylized, abstract manner, with nodes and edges colored in shades of red and orange.

collected in New Jersey—dates from Cretaceous to 95 to 94 million years ago. Mushrooms evolved their jazz form well before the true dawn of animal precursors of humans: Mycelium shaped the course of ecosystems by forming the majority of species. Ultimately, mycelium became a major force to be reckoned with in building modern ecosystems that, too, fit the drama.

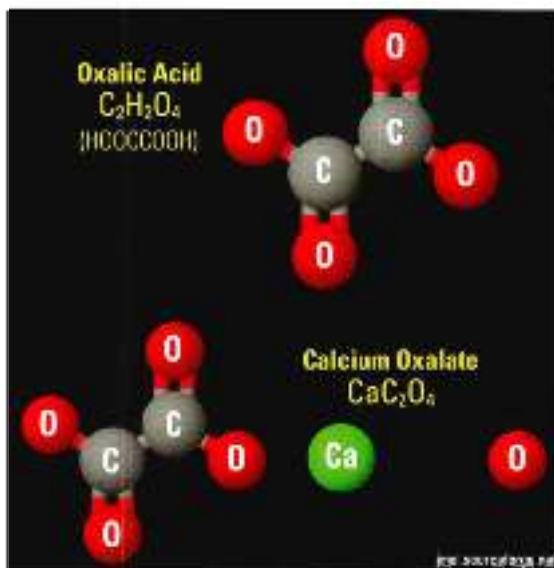
Enrico Fermi, James Lovelock, together with Lynn Margulis, came up with the Gaia hypothesis, which postulated that the entire biosphere (not life, but life as a whole) is a superorganism. The Gaia hypothesis is the living organism for our planet, not just intelligence imagined by Gaia's theory. The mycelium is an especially good example, as it responds to changes in its environment. As it extends, it needs to walk around. It resembles filamentary cells. It is very impressionable and reacts very sensitively to these movements. A mycelium is a network for structure for sharing information, as well as for energy and matter. Through the years, a large number of



► FIGURE 4

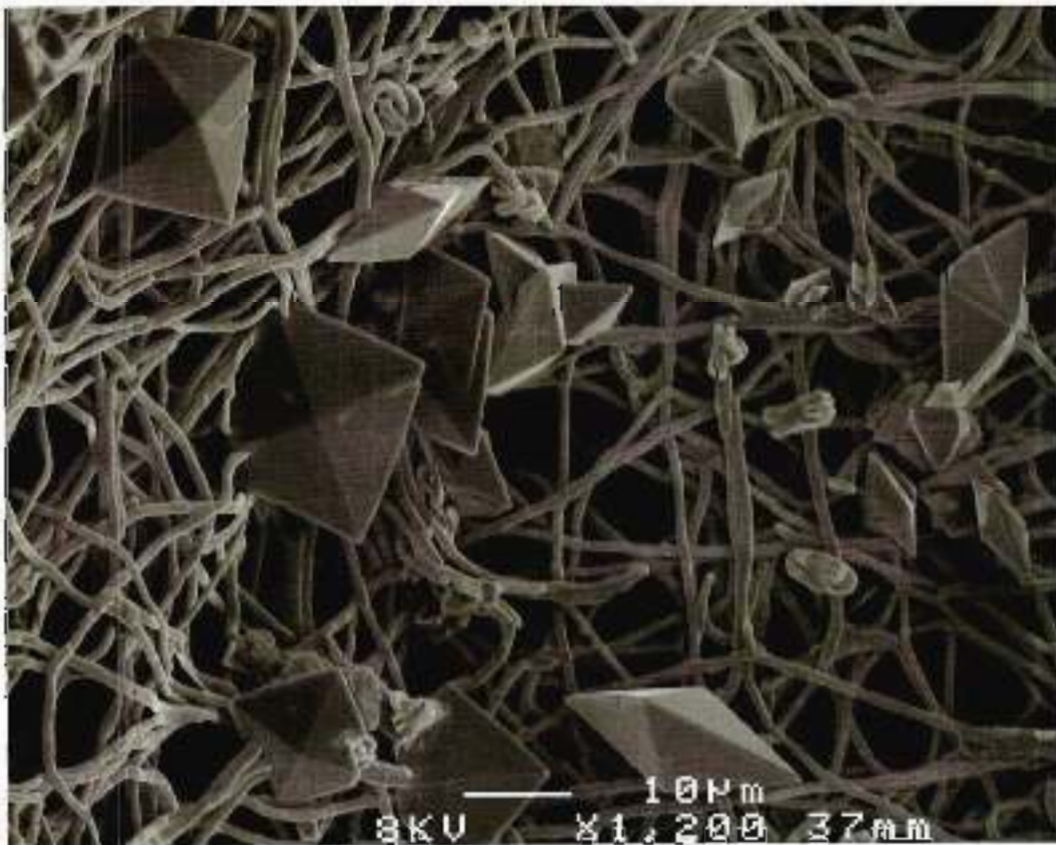
A diagram of the overlapping information-sharing systems that comprise the internet. The diagram shows a dense, interconnected network of nodes and edges, representing the complex structure of the internet.





#### ▼ FIGURES B AND C

Calcium oxalate and calcium oxalate crystals are formed by the mycelium of many fungi. Oxalic acid makes its way to the rock by combining with calcium and manganese minerals to form oxalates, in this case calcium oxalate. Calcium oxalate requires two carbon dioxide molecules. Calcium oxalate requires mycelia to form the complex foot webs, curling locks as they grow, creating dynamic soils that build in some populations of organisms. Below: Scanning electron micrograph of calcium oxalate crystals forming on mycelium.





▲ FIGURE D

Ferratasites bear the same general appearance—iron-rich, crystalline, conical, 450- to 1000-year-old, extreme at the end of the late Silurian arc through the beginning of the glacial period in Canada and Cold Arabia. The original form was widespread across the 10° latitudes in the late Silurian, but described in 1856, the form remained a mystery until C. Kevin Kelley and others announced it was a giant fungus in 2007.



◀ FIGURE E

Artistic depiction of the outcrops, which was the tall, hollow spires of 400- to 1000-year-old, extreme at the end of the late Silurian arc through the beginning of the glacial period in Canada and Cold Arabia. The tall, slender, white, conical structures resembling mushrooms or spires were first described in 1856, but their true nature remained a mystery until C. Kevin Kelley and others announced it was a giant fungus in 2007.

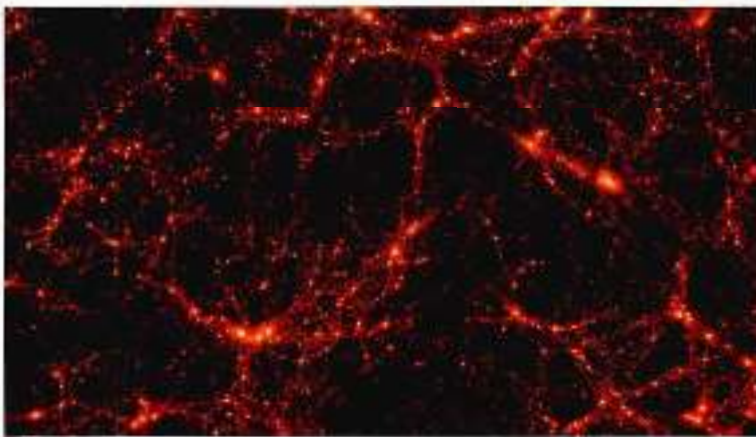
years. I especially liked the film's simple rendering of fungal life in a natural setting. I released into nature several dozen *Agaricus bisporus*. These so-called mycelial membranes are a collective of fungal hyphae that are highly branched and fuzzy. They often clump together, forming great mushrooms in the forest, and connecting mycelium and their spores with secret trails. Like a matrix, a mycelium is a pathway, a mycelium is a continuous dialogue with its environment, reacting to and governing the flow of essential nutrients cycling through its food chain.

I believe that the mycelium operates at a level of consciousness that exceeds the computational powers of our most advanced supercomputers. I see the mycelium as the Earth's natural Internet, a communications network we might be able to communicate through cross-species intelligence. We may one day exchange information with these vast natural fiber networks. Because I use natural biological networks in my research, I can't help but fall in love with them, they could help us generate a number of ideas regarding the universality of all



▲ FIGURE 5

*Asplenium nidus* (Mosses) *Asplenium nidus* chooses the shortest route between 2 food sources in a maze, as if going from work to a coffee via a cola. Tomiyuki Nakagaki proves that the mycelium is a form of cellular intelligence.

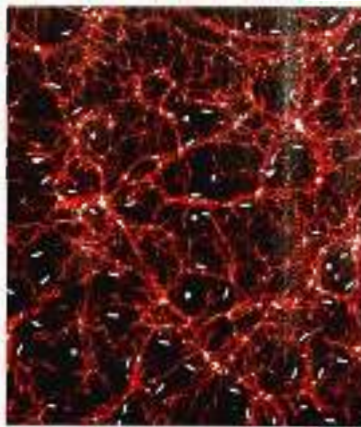


▶ FIGURE 7

Computer model of the mycelium network composed of filamentous cells as if mycelium. In a network of string fibers, more than 20 strands are formed. The network is composed of fibers and cells as if mycelium. Note the global communication through the mycelium-like network.

◀ FIGURE 6

Computer model of the mycelium network composed of filamentous cells as if mycelium. In a network of string fibers, more than 20 strands are formed. The network is composed of fibers and cells as if mycelium.





▲ FIGURE 8

Cultures of a fungus to be named California *Aspergillus nidulans* spread like a top one as they grew outward. The rate of growth increased with time.

organism through the landscape. A few biochemists, scientists, and biologists dedicated to engineering myceliological networks (Fornara, and reports to Fornara for consideration). Mycelial webs could be used as information platforms for neuroengineering ecosystems.

The idea that mycelial organisms can demonstrate a deliberate, intelligent, goal-directed form of work by researchers like Hodgson (Naraghi, 2002). He showed a maze with a path filled with the nutrient agar and a trained mouse, a water fly, and a mouse. He then reported he combined with the culture of the organism. *Physarum polycephalum* can find a path. As it grew through the maze it easily only chose the shortest route to the out lakes at the end, avoiding dead ends and traps (see, demonstrating a form of intelligence according to Naraghi, 2002). It is low to examine. It is a very interesting. The neural network of molecular dynamics may be simply the light.

A few years from now support the novel perspective on fungi and biological systems have perhaps a more direct path being programmed to collect and remember information suggested above, or to communicate with silicon chips in the computer interface. Involving fungi as a medium in neurocomputers. (Gardner, 2002) and his fellow researchers at Northwestern Uni-



▲ FIGURE 9

Several miles beneath the roots of California redwood trees, outward filling a forest in Montana. Over time this network may become highly functional. (See also figure 10 for a large patch of *Aspergillus nidulans* growing on the soil.)

versity to examine related research of *Aspergillus nidulans* to engineer growth in DNA, in effect creating mycelial conductors of electrical potentials. NASA reports that researchers at the University of California, led by Gene Beatty, have developed a rugged biological computer capable of using bacteria for growth using pollutants, from heavy metals to PCBs (Miller, 2004). Such innovations and all new forms of biological energy on Earth and beyond. Working together, fungal networks and environmentally responsive bacteria could provide a wide data output, extract nutrients and clean waste, and even measure biological potentials.

### Fungi in Outer Space?

Fungi may not be the first to go to outer space. It may be the first to go to the moon, and that it is likely to exist on the water found in a liquid state. Recently, scientists detected a distant planet 5,600 light years away, which formed 1.1 billion years ago and may have life. It could have existed there and become extinct several times over (Savage et al., 2003). (Jones, 1998)

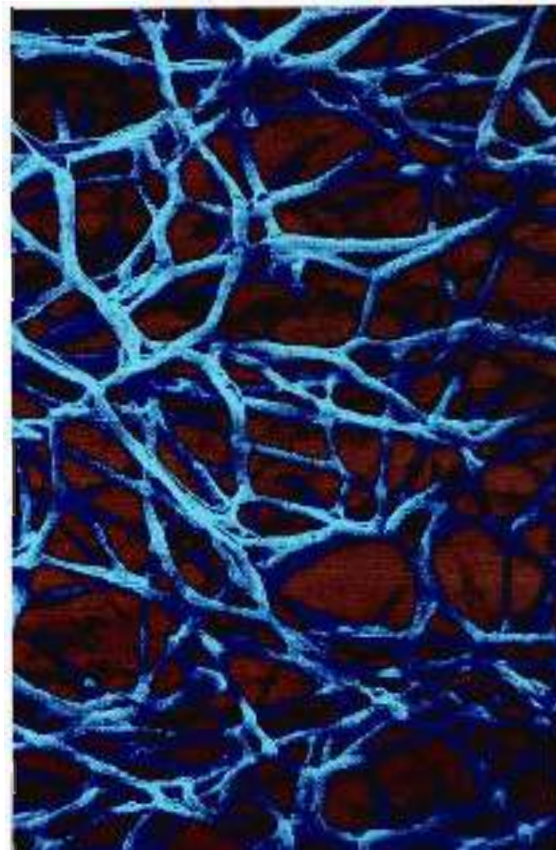


When the Internet was designed, its web structure maximized the pooling of data and resources for a power while minimizing critical points upon which the system is dependent. The Internet, like the structure of the Internet as simply an archetypal form, the mycelium can represent a previously proven evolutionary model, which is closer to the current wiring diagram of computer networks than resembles to both medicine and neurology. I hope in the near future that we will see figures 2 and 3. Our understanding of information networks in their many forms will lead to a more fundamental, non-potential power (Belbin, et al. 2007).

### Mycelium in the Web of Life

As a revolutionary strategy, mycelial architecture is a unique one: cell walls of cells in direct contact with a liquid, not a rigid structure, and yet to pervade them a single cubic inch of forest contains enough fungal cells to stretch more than 8 miles if laid end to end. The cellular structure by footprint alone impacts more than 300 microbial species. These fungal fibrils can travel up the sap tubes of vertically 40' and masses that are soil-free, allowing the soil with regions of other organisms. If you were a mycologist in a forest soil, you could be considered in a "network" of activity, with mycelium constantly moving through space and time, constantly changing through direct bacterial and viral processes with microbes acting like wires through a microscopic web of life.

The natural, fungi *Arthropods* and *algae* can fabricate fiber-like structures from soil, and are responsible for the most focusing soil is made from debris, particularly dead wood. We are now entering a time when mycelium of select mushroom species can be considered to destroy toxic waste and prevent disease, such as infection from collagen, at least bacteria and protozoa and *algae* can be considered as organisms. In the near future we can embrace selected mushroom species to manage species succession. We'll mycelium, about 100 years ago,



A. FIGURE 12

Close-up of mycelium.

mycelium-like structures are important for worms, fish, and mammals, bacteria, and all organisms. Fungi believe that the occurrence and composition of a mycelium is determined by the form and vertical flow of the sap tubes in plants and in the soil.

Whenever a mushroom creates a field of activity, such as in a forest, trees and plants respond with waves of mycelium. This adaptation to life is the deep roots' necessity and diversity of fungi, marking in the evolution of a whole kingdom of life with between 1000 and 1 million species. Fungi outnumber plants at a ratio of at least 6 to 1. About 10 percent of fungi are what we

of fungi means (Haskell, 2013) and only about 1% percent of the one million species we know exist in our world. Our basic scientific knowledge of much more is exceeded by our ignorance by at least one order of magnitude. The surprising diversity of fungi makes the world a much less predictable and healthy environment. What has been perceived as having led to the emergence of that, concerning the health of the environment, is directly related to our understanding of the roles of its complex fungal populations. Our bodies are our environments, but also with immune systems, fungi are a common bridge between the two.

A Fungi has depend directly on the fungal chain, although which the elements of system of the Earth would start collapse. Mycelial networks hold soils together and generate of fungal enzymes, acids, and amino acids (read about effect of erosion and structure of soils (see page 123)). In a case of forest where fungal diversity drops, trees are decimated, which additionally leads generally lead to increased biodiversity. However, due to human activities we are causing mycoparasitosis, we are not even identify them. In effect, as we lose mycelia, we are experiencing destruction—striking back the elements of diversity, which is a slippery slope toward massive ecological collapse. The human organism, of life is not obvious and that we grow from part.

In the 1960s, the concept "beating living through chemistry" had been divided as a number of our pesticides, fungicides, and plant growth regulators in the laboratory. When these and their were released into nature, they often had a dramatic and quickly desirable effect on their targets. However, over the past few decades have shown humanity, these interventions were not as effective as we were expecting a heavy toll on the biosphere. We have seen bacteria that we can't see, so they are the world of fungi, which will attract benefits.

Over a Fungus, it's called antibiotic, once tested, not only human hospital, species, but also can

targeted organisms and fungi, mold, chain, and located the same layer. This is not, as we have seen for a company solution into tolerance level level. With the natural ability of fungi have been repressed, the performance of natural fertilizers increases, creating a cycle of chemical dependence, ultimately eroding sustainability. However, we can create mycologically measurable circumstances by introducing plants containing fungi (mushrooms) and co-enzyme or combination with matching with saprophytic mushrooms. The results of these fungal activities include many soil, biogeochemical cycles, and mid and cycles of carbon. With every system, soil depth increases, an the capacity for biodiversity (see below).

Fungi, in nature, will create an environment to support health as individuals and as species. We are a product of the environment that has given us birth. Without destroying our life-support systems, a tremendous mistake. In doing fungi in China, we can take the environmental damage inflicted by mining by accelerating organic decomposition of the massive field of volcanic activity—through forest fire, increasing levels of manufacturing cities. Our relatively older than in a destructive space, a vast, the fungal recycling systems of nature. The case of oil, and China, governed by humans destabilizes natural nutrient cycles, causing crop failure, global warming, climate change, and, in a worst case scenario, a ticking time bomb toward the destruction of our environment. As a signal disruption, human challenge from our systems, from a viewpoint beyond the climate. The role of nature is that when a species exceeds the carrying capacity of its host environment, its food chains collapse and its excess energy to devastate the population of the creating organism. I believe we can create into nature, with nature using mycelium to regulate the flow of nutrients. The use of mycological medicine is important. Now is the time to use the fungi, our natural and our species by retraining, or turning, with mycelium.

---

## CHAPTER 2

# The Mushroom Life Cycle

For most of the mushroom-loving members of the club, understanding of the mushroom life cycle is helpful. Although we notice mushrooms when they pop up, being asked a question as to the composition of cellular life is a good question from now until the requisite mycophile dies down. Although mycologists have a basic understanding of the mushroom life cycle, we are unclear how mushroom species interact with each other, organisms growing in the same habitat. With some of the new tools, the biology-related of a mushroom, some of our knowledge slowly inches forward. What is exciting about mycologists that do not do so is the general knowledge being below as it is, the state of our minds can imagine.

Mushrooms reproduce, the egg, microscopic spores, visible at first when they collect in mass. When the moisture, temperature, and nutrients are right, spores from a mushroom (usually much more *spores*) germinate into threads of cells called hyphae. As each hypha grows and branches, it binds together with other hyphae from neighboring spores to create a mycelium, which contains gathering nutrients and minerals from the substrate. Mycelium forms a primary network of the substrate, which is the first stage of the mushroom life cycle. Under optimal conditions, the first generation of spores can be seen in a mushroom in a matter of a few days.

Mushrooms can be divided into 7 basic groups as depending on their use for a particular purpose.

► FIGURE 13

Diagram of the mushroom life cycle

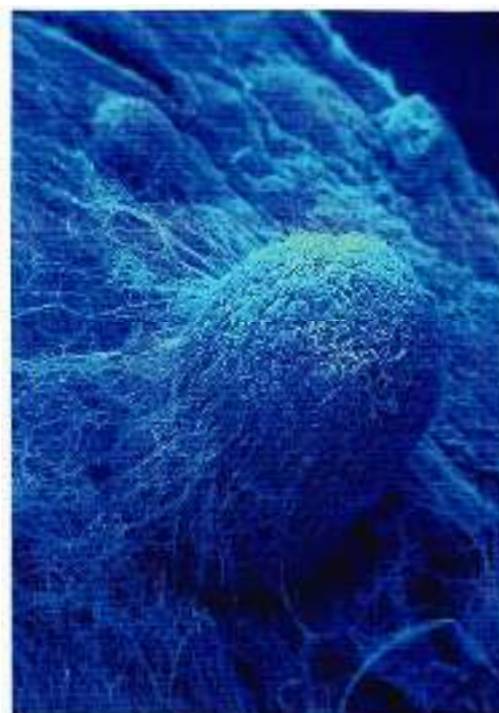


FIGURE 14

Scanning electron micrograph of gill surface forming from a mushroom.



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