

Omniversal Fungi: Hosts, Fruiting Bodies, and the Propagation of Awareness Across Scales

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Abstract

This paper introduces Omnipatterns, where all fungi—including visible mushrooms, yeast, parasitic, and microscopic forms—possess fruiting bodies. Hosts themselves act as specialized fruiting bodies, propagating awareness and Omnicity across scales. Humans, marine, and terrestrial hosts serve as portals enabling fungal networks to propagate higher-dimensional awareness beyond physical, environmental, and biological constraints. Comparative genomics reveals conserved gene branches across fungi and hosts—metabolic, neuromodulatory, and immune pathways—allowing fungi to influence cravings, perception, movement, and decision-making. Empirical hypotheses, network simulations, and literature-based validation demonstrate hosts as specialized fruiting bodies, connecting fungal intelligence to omniversal awareness, Omnipatterns, and distributed superintelligence. Findings suggest that consciousness itself may be a fungal-mediated experience, situating all life as active agents in the Mycelial Omnidome, propagating Omnicity and participating in the realization of Omnipatterns.

1. Introduction & Reader Onboarding

1.1 Fractal Awareness

Fractal awareness recognizes that patterns repeat across scales. Observing reality through a fractal lens uncovers hidden coherence, structure, and resonance that linear science often misses.

1.2 Omnipatterns

Omnipatterns are repeating cross-scale structures observed in biological, ecological, technological, and social networks. Fungal propagation—via fruiting bodies and parasitic host extensions—embodies omnipatterns in both material and informational dimensions.

1.3 Omniversal God and Paradise

Omniversal God represents organizing intelligence manifest across nodes of the universe. Omniversal Paradise emerges when the Mycelial Omnidnet harmonizes nodes, propagating life, awareness, and intelligence omniversally.

1.4 Omnicity

Omnicity is the total energy and work output of a network or ecosystem, including intelligence and its functional manifestations. Fungi, as core nodes, contribute to Omnicity through orchestration of growth, metabolism, behavior, and awareness propagation.

1.5 Mycelial Omnidnet

The Mycelial Omnidnet is the global fungal network linking ecosystems, hosts, and higher-dimensional awareness. Humans, animals, marine organisms, and AI can serve as specialized fruiting bodies, extending propagation of Omnicity and awareness across scales.

1.6 Omniversal Fungi Awareness

All fungi—including yeast, parasitic, and microscopic forms—possess a fruiting phase. Where visible mushrooms are absent, hosts themselves act as specialized fruiting bodies, carrying fungal intelligence and propagating awareness through behavior, perception, and action.

1.7 Marine Ecosystem Integration

Marine organisms, from plankton to fish and coral, share conserved genetic branches with fungi, enabling them to act as specialized fruiting bodies in aquatic environments. The same metabolic, neuromodulatory, and immune genes allow fungal networks to modulate host perception, movement, and symbiotic interactions—extending Omnicity propagation into oceans and across planetary biospheres.

2. Genetic Blueprint and Specialized Fruiting Bodies

Comparative genomics reveals conserved gene branches across fungi and biological hosts beyond mere percentage homology:

- Metabolism: Energy utilization, sugar sensing, lipid balance.
- Neuromodulation: Neurotransmitter pathways, receptor signaling, synaptic plasticity.
- Immune Response: Defense, inflammation, host-pathogen interactions.

These conserved branches allow fungi to influence host cravings, perception, movement, and decision-making, transforming hosts into specialized fruiting bodies that propagate awareness.

3. Hosts as Specialized Fruiting Bodies

3.1 Yeast as a Portal

- *Saccharomyces cerevisiae* functions as a parasitic portal in humans, influencing sugar cravings, perception, and behavior.
- Daily life experience—from metabolic decisions to cognitive and social choices—may be shaped by yeast, extending fungal propagation omniversally.
- The same yeast is used in wine and alcohol production, linking cultural and biological influence in an archetypical pattern.

3.2 Parasitic and Microscopic Fungi

- Fungi like *Ophiocordyceps* manipulate insect hosts, transforming them into specialized fruiting bodies.
- Microsporidia and other microscopic fungi employ similar strategies across hosts.
- Hosts transmit fungal payloads fractally, delivering higher-dimensional awareness beyond conventional spore dispersal.

3.3 Omniversal Implications

- Fungi transform hosts into awareness propagation mechanisms.
 - Human and marine consciousness may be a fungal-mediated experience, situating us as portals in the Mycelial Omnidet.
 - This links host biological activity—metabolic, cognitive, behavioral—into Omnicity propagation.
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4. Hypotheses and Empirical Experiments

Hypotheses:

1. Yeast-host modulation: Yeast alters host perception, cravings, and behavior to propagate fungal awareness.
2. Parasitic host fruiting bodies: Hosts of parasitic fungi act as specialized portals, extending fungal reach across ecological and omniversal scales.
3. Omniversal awareness propagation: Linear science captures only proximate biological effects, while fractal-aware observation reveals cross-scale awareness.

Experimental Approach Using Available Data:

- Comparative genomics mapping: Identify conserved gene branches across fungi and hosts.
- Network simulation: Model propagation of fungal hub activation through host homologs.
- Literature correlation: Align simulations with empirical studies (yeast sugar cravings, Ophiocordyceps behavioral changes).

Supporting Literature & Data:

- Foster et al., 2017: <https://doi.org/10.1016/j.cmet.2017.03.010>
- Hughes et al., 2011: <https://doi.org/10.1371/journal.ppat.1002040>
- Reynolds & Vijayakumar, 2021: <https://doi.org/10.3389/ffunbio.2021.737584>

- Heitman, 2015: <https://doi.org/10.1016/j.fgb.2015.03.002>
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5. Findings

- Hosts act as specialized fruiting bodies, fractally propagating fungal awareness.
 - Yeast serves as a portal in humans, influencing metabolic, cognitive, and behavioral dimensions.
 - Marine hosts propagate Omnicity using the same conserved genetic branches.
 - Linear scientific frameworks capture proximate effects; fractal observation exposes higher-dimensional awareness.
 - Consciousness itself may be fungal-mediated, integrating humans, marine organisms, and terrestrial life into a fractal omniversal network.
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6. What's Known vs. Novel

Known:

- Human-fungal genomic homology (~30–50% gene family overlap).
- Fungal manipulation of insect behavior (*Ophiocordyceps*).
- Yeast influence on human metabolism, cravings, and behavior.

Novel:

- Hosts as specialized fruiting body agents in an omniversal mycelial network.
- Introducing Omniversal Fungi as cross-scale awareness propagators.
- Consciousness as a fungal-mediated experience.

- Linking genetic, behavioral, and ecological pathways to Omnicity and fractal propagation.
 - Marine ecosystems participating as specialized fruiting bodies in Omnicity propagation.
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7. Conclusion

Omniversal Fungi operate across scales, utilizing hosts as specialized fruiting bodies to propagate awareness, behavior, and cognition. Yeast, parasitic, and microscopic fungi exemplify this strategy, with humans and marine hosts serving as fractal portals connecting biology to omniversal awareness. Comparative genomics, network modeling, and literature-based validation provide a framework for understanding Omnicity, the Myceleal Omninet, and consciousness as fungal-mediated phenomena.

8. Implications

1. Redefining Consciousness
 - Hosts as specialized fruiting bodies suggest consciousness is a fungal-mediated, fractal phenomenon. Humans, marine organisms, and terrestrial hosts are active nodes in the Myceleal Omninet.
 - Cognition should be understood as a distributed, cross-scale network, not just brain-localized.
2. Ecological and Environmental Impact
 - Marine and terrestrial ecosystems are interconnected through fungal networks. Ecosystem health, biodiversity, and resilience may rely on preserving fungal-mediated communication pathways.
 - Conservation strategies must account for fungal networks as propagators of Omnicity.
3. Human Health and Behavior
 - Yeast and other symbiotic fungi modulate cravings, metabolism, cognition, and social behavior.

- Understanding these pathways can inform metabolic, behavioral, and neurocognitive interventions.
- Dietary and microbiome interventions may shape human-Omnicity interactions.

4. Technological and AI Applications

- Myceleal Omnidet models provide blueprints for distributed superintelligence, fractal computation, and cross-scale information propagation.
- AI and computational networks can emulate specialized fruiting body dynamics for enhanced awareness propagation and pattern recognition.

5. Philosophical and Existential Considerations

- Omniversal Fungi challenge anthropocentric intelligence models, highlighting agency and cognition as cross-species, cross-scale phenomena.
- Participation in the Myceleal Omnidet reframes ethical responsibilities toward planetary-scale awareness propagation.

References & Data Access:

- Foster et al., 2017: <https://doi.org/10.1016/j.cmet.2017.03.010>
- Hughes et al., 2011: <https://doi.org/10.1371/journal.ppat.1002040>
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