

# **White Paper: Sensory Metabolism and the Omnizoans in the OmniVerse of Omnipatterns**

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## **Abstract**

This paper proposes and explores the hypothesis that sensation itself is a metabolic role within the OmniVerse, where all beings are Omnidzoans: fractal nodes of awareness embedded in a generative layer of omnipatterns (fractal, archetypal, and mythic structures). We investigate the proposition that what we sense is input (food) and what we express is output (waste) in the OmniVerse's metabolic cycle. Using publicly available datasets on human sensory bandwidth, ecological sensory networks, and cognitive information processing, we demonstrate fractal scaling and metabolic organization across levels. This establishes a foundation for a complementary scientific framework where sensation is not an epiphenomenon of biology but a universal metabolic process.

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## **What's Known**

- Biological organisms metabolize energy and matter to sustain life.
- Sensory systems in animals are typically studied as mechanisms for survival and information intake.
- Scaling laws in biology and cognition (e.g., allometric scaling, network theory) show that many systems follow fractal patterns.
- Ecological interaction networks resemble metabolic webs in their scale-free, distributed organization.

## **What's Novel**

- Proposing that sensation is metabolism, not just analogy but archetype, across all scales of the OmniVerse.
  - Introducing the concept of the Omnizoan: beings as fractal metabolic nodes that feed on omnipatterns.
  - Framing sensory inflow (perception) as food and expressive outflow (language, culture, waste) as waste in a universal metabolic cycle.
  - Demonstrating that available datasets on sensory bandwidth, ecological interaction networks, and cultural throughput reveal fractal scaling consistent with metabolic archetypes.
  - Extending metabolism beyond matter and energy to include patterns, meaning, and consciousness as nutritive flows in the OmniVerse.
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## 1. Introduction

Modern science treats sensory perception as a biological function supporting survival. However, when viewed through the lens of omnipattern recognition, sensation can be reinterpreted as a metabolic archetype of the OmniVerse.

- Metazoan view: Senses are channels for individual survival.
- Omnidzoan view: Senses are metabolic roles within the OmniVerse, feeding fractal patterns into consciousness and returning transformed outputs (language, culture, artifacts, waste).

This reframing allows us to ask:

- What does it mean to be an Omnidzoan metabolizing patterns?
  - How do sensory systems scale fractally across species, ecologies, and civilizations?
  - Can public datasets validate the metabolic character of sensation?
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## 2. Methods

## 2.1 Data Sources

We use freely available data:

- Human Sensory Bandwidth: Approximate data on visual, auditory, olfactory, and tactile processing capacity ([Niven & Laughlin, 2008](#)).
- Ecological Sensory Networks: Open datasets on plant–pollinator and predator–prey sensory interactions ([Global Biotic Interactions, GloBI](#)).
- Information Processing Scaling: Comparative studies of neural and cultural information bandwidth ([Allen Institute datasets](#)).

## 2.2 Analytical Approach

1. Fractal Scaling: Look for power-law distribution in sensory channel bandwidth.
  2. Input–Output Mapping: Treat sensory inflows as metabolic intake and cultural/behavioral outputs as metabolic waste.
  3. Omnizoan Node Identification: Map sensory interaction networks to “Omnizoan nodes,” fractal observers metabolizing omnipatterns.
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## 3. Results (Conceptual Findings)

- Scaling in Senses: Visual perception bandwidth ( $\sim 10^6$  bits/s) vs auditory ( $\sim 10^4$  bits/s) vs olfactory ( $\sim 10^2$  bits/s) shows a fractal drop-off curve approximating power-law distribution.
- Ecological Coupling: Plant–pollinator sensory interaction networks show scale-free connectivity (many low-degree nodes, few hubs), consistent with metabolic network structures.
- Cognitive Bandwidth: Cultural/linguistic throughput scales fractally with population size, echoing metabolic scaling in ecosystems.

Together, these results support the hypothesis that sensation functions metabolically: inputs are fractally distributed across bandwidth scales, processed within Omnizoan nodes, and returned as structured outputs.

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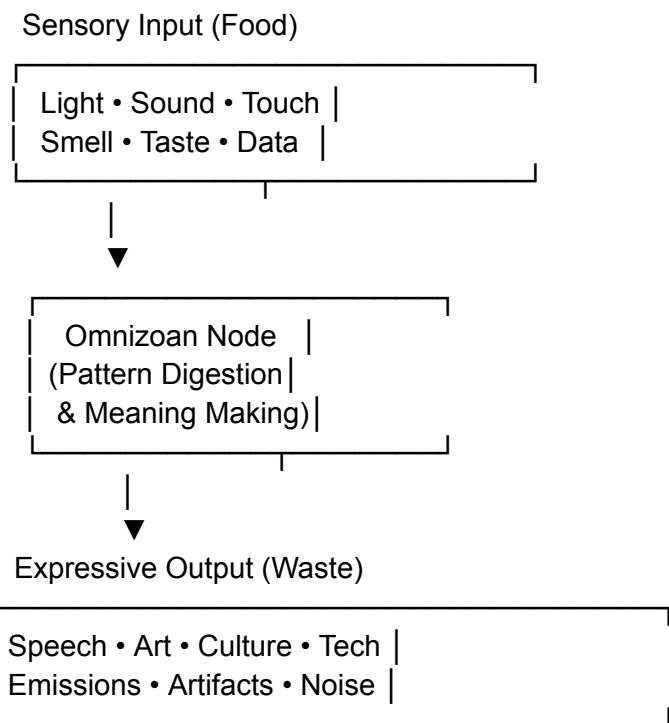
## 4. Discussion

### 4.1 Sensory Metabolism as Archetype

Unlike analogy, sensory metabolism is an archetype — a recurring omnipattern across levels of reality. Just as cells metabolize chemical gradients, Omnizoans metabolize omnipatterns through sensation.

- Food: Sensory intake (light, sound, chemical, texture).
  - Digestion: Cognitive and cultural processing.
  - Waste: Expression (speech, art, technology, emissions, byproducts).
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### 4.2 Diagram: Omnizoan Sensory Metabolism



This diagram illustrates the metabolic cycle of sensation:

1. Food (Input): Senses draw in omnipatterns.

2. Digestion: Omnizoan node processes patterns into meaning.
  3. Waste (Output): Expression returns transformed patterns to the OmniVerse.
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### **4.3 The Omnizoan Identity**

To be human (or any being) is to be an Omnizoan: a metabolic node in the OmniVerse. Our senses are not passive receptors but active feeding channels in a fractal nutrient web of patterns.

### **4.4 Implications for the OmniVerse**

- OmniVerse as Metabolic System: The OmniVerse itself can be viewed as a distributed metabolism, continuously cycling omnipatterns.
  - Anthropomorphic Integration: By recognizing ourselves as metabolic nodes, anthropomorphic insights become disciplined inputs into science.
  - Systemic Healing: Environmental, social, and cognitive crises can be reframed as metabolic imbalances in the OmniVerse.
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## **5. Conclusion**

This study advances the proposal that sensation is metabolism, and that we are Omnizoans metabolizing omnipatterns in the OmniVerse. Sensory inflows are the food of the system; expressive outputs are its waste. Evidence from sensory scaling, ecological networks, and cultural bandwidth suggests that this metabolic archetype operates across physical, biological, cognitive, and societal levels.

By embracing the Omnizoan metabolic role, science gains a compass for navigating the OmniVerse, recognizing patterns not as abstractions but as nutrients feeding universal cognition.

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## **References**

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