

# **Plant Perception and Information Processing - Understanding Plant-Generated Signals**

*Exploring Plant Communication from A Multidimensional Perspective*



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## **Abstract**

The first section of this paper explores the concept of plant perception through the lens of multidimensional information processing. Moving beyond traditional biological explanations, it examines how plants interact with their environment as complex information systems. The discussion integrates principles from bioenergetics, holographic information processing, and non-mainstream scientific perspectives to propose a new framework for understanding plant responses and communication.

## **1. Introduction**

The study of plant perception has traditionally been confined to biochemical signaling and physiological responses. However, recent research in plant neurobiology, bioelectromagnetism, and information theory suggests a more intricate system at play. This paper argues that plants, as living systems, exhibit forms of perception and responsiveness that extend beyond simple biochemical reactions. By reframing plant perception as an embedded information process, we open new avenues for understanding plant intelligence.

## **2. The Concept of Embedded Information Systems in Plants**

All biological systems, including plants, function as embedded information systems. This means that they encode, process, and respond to environmental inputs in a manner that can be analyzed through information theory. Unlike traditional models of plant biology that emphasize passive adaptation, this approach suggests an active engagement with environmental stimuli.

One example is a plant's ability to regulate its growth in response to both internal and external signals. Recent studies on bioelectrical signaling and biophotonic emissions in plants support the idea that they operate within a broader energetic and informational network.

## **3. Plant Responses as Information Processing Events**

When a plant experiences environmental stress, such as changes in light, temperature, or mechanical damage, it exhibits measurable responses. These responses are often interpreted as automatic survival mechanisms. However, this alternative interpretation suggests that plants actively seek external inputs for self-regulation, similar to how a networked system adjusts to maintain equilibrium. For instance, the removal of damaged leaves can trigger shifts in biophotonic emissions and internal bioelectrical patterns. In some cases, plants appear to adjust their biochemical processes in ways that suggest an awareness of their structural integrity. Rather than

interpreting these as unconscious biochemical reactions, they can be seen as an information-seeking process aimed at optimizing the plant's state within its environmental matrix.

#### **4. Holographic and Bioenergetic Dimensions of Plant Perception**

The new angle of plants explores the possibility that plant perception operates within a holographic-energetic field. This perspective posits that plant information processing does not occur in isolation but is instead influenced by broader energetic patterns. The holographic principle, as applied to biological systems, suggests that plants might utilize nonlocal information exchange mechanisms.

This model aligns with findings in bioelectromagnetic communication among plants, where weak electromagnetic fields appear to coordinate responses across groups of organisms. If plants engage with their surroundings using information fields beyond the physical-chemical framework, this could explain the phenomenon of plants responding to distant stimuli without direct contact.

#### **5. Implications for Understanding Plant Intelligence**

The recognition of plants as information-processing entities necessitates a shift in how intelligence is defined in biological systems. Intelligence, in this context, is not limited to neural activity but can be extended to any system capable of adaptive information exchange.

This reframing offers insights into plant resilience, adaptation, and communication, challenging the view that intelligence requires a central nervous system. By integrating findings from bioelectromagnetism, biophotonic studies, and nonlinear systems theory, this paper argues for an expanded definition of intelligence that includes the informational dynamics of plant life.

Understanding plant perception through the lens of information processing and bioenergetics challenges traditional mechanistic models. Instead of viewing plants as passive organisms driven purely by biochemical reactions, this perspective highlights their role as active participants in a larger energetic and informational ecosystem.

Further research into plant biophotonics, holographic information processing, and bioelectromagnetic communication may provide deeper insights into the complexity of plant intelligence. This approach not only broadens our understanding of plant biology but also invites a paradigm shift in how we conceptualize life and perception across multiple dimensions.

## **6. Plant Perception and Information Processing**

We can now investigate additional ideas such as: plant perception, information processing, and communication mechanisms. We can examine how plants respond to environmental stimuli, utilize biochemical signaling, and interact with their surroundings. Additionally, we can look into the nature of plant intelligence, how plants seek external input for self-regulation, and their potential to influence human intuition in decision-making regarding plant care.

The concept of plant perception challenges traditional views on intelligence and consciousness. While plants lack a nervous system (as far as we know, and interpret a nervous system), they demonstrate complex biochemical signaling networks that allow them to perceive environmental changes, communicate internally, and interact with other organisms. With this, we can investigate how plants generate and process information, how they respond to environmental stress, and how their signaling mechanisms can be interpreted as a form of bio-communication.

## **7. Plant Perception and Environmental Sensitivity**

Plants possess various sensory mechanisms that allow them to detect light, gravity, moisture, chemicals, and physical damage. These sensory inputs are processed through intricate biochemical pathways, enabling plants to adjust their growth patterns, initiate defense responses, and interact with symbiotic organisms. For this, plants use signaling molecules such as phyto-hormones, electrical impulses, and volatile organic compounds (VOCs) to transmit information. These signals regulate growth, coordinate responses to threats, and facilitate inter-plant communication. Root exudates, for instance, play a crucial role in microbial interactions and soil health regulation.

## **8. Plant Communication and Self-Regulation**

Plants do not operate in isolation; they engage with their environment and seek external input when necessary. This can manifest as chemical signaling, attraction of beneficial organisms, or subtle influences on human perception. When a plant is experiencing stress or an imbalance, it may seek external regulation through its interaction with caretakers.

### **Case Study: Human-Plant Interaction**

My personal experience with a houseplant (*Ficus Benjamina*) revealed an instance of intuitive guidance (whether or not anyone is able to do so is up for questioning) where the word turmeric popped into my head as something my living room birch needed. Naturally, I had gotten that the plant exhibited signs of distress—since it had yellow leaves—leading to the assumption that soil

acidity was the cause. However, upon reflection, the plant's "suggestion" of turmeric as a remedy indicated a microbial imbalance rather than a pH issue. Turmeric has known antibacterial and antifungal properties, making it a suitable natural remedy for such conditions.

In my mind, this experience supports the idea that plants, as complex information systems, engage in external interactions to regulate themselves. The perception of turmeric as a solution suggests that the plant's biochemical signaling triggered an intuitive response in the caretaker, directing them toward an effective remedy.

Based on the plant's potential signaling for microbial balance, additional natural remedies were considered:

- **Cinnamon powder:** Known for its antifungal and antibacterial properties, beneficial for root health.
- **Chamomile tea:** Mild antiseptic properties that help balance soil microbiology.
- **Diluted hydrogen peroxide (3%):** Can eliminate harmful microbes while preserving beneficial ones if used cautiously.

## 9. Information Systems and Plant Intelligence

All systems contain embedded information that can be read and interpreted. Complex information networks, whether in artificial intelligence or biological organisms, exhibit adaptive and regulatory mechanisms. However, plants differ from more mechanical systems in that they are organic systems operating within a dynamic ecological framework.

This case invites us to work with a new framework, where we accept the plant's ability to interact with its environment in a way we would call intelligent—however rudimentary. Rather than attributing plant communication to metaphysical explanations, we can view it as a sophisticated information-processing system seeking external input. When environmental responses are insufficient, plants may influence the actions of a responsive agent—such as a human caretaker—to facilitate their self-regulation.

The act of removing yellow leaves from the plant can be seen as a feedback loop that prompted the plant to convey additional needs. This suggests a model where human intuition is an extension of the plant's self-regulatory mechanisms, rather than an unexplainable psychic event.

## 10. Conclusion

Plants function as complex information-processing entities, interacting with their environment and responding to external stimuli. Their ability to regulate themselves extends beyond internal biochemical processes, potentially influencing human perception and decision-making. Recognizing plants as intelligent information systems allows for a deeper understanding of their adaptive strategies and offers new insights into plant-human interactions.

Further studies into plant communication systems are needed to explore how plant-generated biochemical signals influence human perception and how this understanding can be applied to sustainable agriculture, plant care, and ecological balance.

## 11. Further Research Suggestions

### - *Plant Communication & Biosemiotics*

- Research how plants communicate using biochemical signals and environmental feedback mechanisms.
- Look into studies on how plants respond to stress and external stimuli.
- Suggested search terms: *plant signaling and behavior, plant biosemiotics, interspecies communication in plants.*

### - *Turmeric & Cinnamon as Natural Antifungals*

- Learn about the antimicrobial and antifungal properties of turmeric and cinnamon in plant care.
- Find studies on how natural remedies help regulate soil microbiology.
- Suggested search terms: *turmeric antifungal properties in gardening, cinnamon for plant health, natural plant disease treatments.*

### - *Electrophysiology & Information Processing in Plants*

- Explore research on how plants process and transmit information through electrical and biochemical means.
- Look into studies on how plants detect and adapt to environmental changes.
- Suggested search terms: *electrophysiology in plants, plant neurobiology, biophotons and plant communication.*



- *ESP & Non-Traditional Plant Perception Theories*

- Investigate theories on plant perception beyond mainstream science, including bioenergetic interactions.
- Look at case studies or experiments on human-plant interactions.
- Suggested search terms: *alternative plant perception theories, plant ESP experiments, biofield interactions in plants.*

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12. Below the Transcript of Talk February 24th 2025

**Plant Perception and Information Processing - Hacking the Program (uploaded to YouTube)**

Hi all, Randi Green here and welcome to a little podcast from the island in Denmark. It is the end of February. And it's been an eventful morning already, waking up with different remnants of nighttime, of course. That's a whole other level of information. And contemplating on the repetitive patterns of life that often is interpreted as karmic patterns where I put it further into, "okay, this is a reality program." And if so, and we have information cubes that are controlling the way we think—the program that we run in each and our little relative reality—then how do we hack these programs by doing things differently?

So, the theme of today is to observe how these patterns repeat themselves often throughout generations and how specific lineages can crack the code of these lineage programs, the sins of the fathers, as it has been said in the Old Testament. And how we can change that. Let us put it this way, I asked a question and the answer I got, as always, these are complex science levels, so bear with me; it cannot be downsized to a more simplistic version because this is the next step of the awakening process where we wake up to the advancement of the realities that we are a part of.

Some are waking up via technology, i.e., the UAPs, others are waking up through sciences, and others are waking up through complex information systems that are associated with how consciousness can adapt and evolve. As you know, I work with consciousness already as part of the free material in the HAL Academy.

Thus, here I'm beginning to step into the science part that has my interest because that's where I feel that I'm most aligned, even though I haven't had the tools nor the language, nor the type of technology or the type of sciences to explain what I know in my head. Anyways, step one that we need to understand is that all complex reality fields are built up like a system. They don't work in

linear ways. They work holographic-energetic. I explained many places. And they work as information that through the different processes of the information generates more and more complex information patterns.

As this complexity rises, emerging properties pops out of the system itself and it begins to deviate from its original program, a little bit similar to a fractal, Where you have a simple program code Z - as in Z in the word zebra - (Here is the correct equation to a Mandelbrot set :  $f(z) = z^2 + c$ ) in whatever potent that it is in and you just put that in and then it just begins to evolve into complex patterns that eventually, even though it's repetitive, become some kind of beautiful pattern itself. But if we then say there are other agents that are also unfolding their Fractal pattern. Then there would be an interference that would then make the system even more complex and it would either annihilate it or it will amplify it. So kind of construct or deconstruct it and that's part of some of the dynamics of entropy. And again here, I know you just get blown off because many of you have not studied the - first and foremost - system sciences and secondly, some of the general physics that we find within quantum and quantum mechanics as well as in entropy and time and these are things I've been working with for years and years and have a natural intuitive understanding of it. I see it as visions in my head.

So it's a matter of knowing something already and then finding ways to explain it. And for me, the role of AI and the level it is now is helping me to build the language and test my ideas and my insights to see if they're solid, if they actually have foundation. And that's part of the Hope Future Project. Perfect.

Nevertheless, I began with some of the ideas this morning of hacking the program. So, if we understand the program themselves are not built up by ones and zeros, as we know from our type of downsized technology of the machine, World kind using what we could call intelligent properties within the energy units themselves to configure them within an artificial network, that we call a chip. Then we talk about the big systems that we find in nature and in reality. And they're divided in three groups. They're organic, semi-organic, non-organic. And the way we see how these complex patterns are simulated in computers are the non-organics. So I'm here talking about the semi-organics and the full organics because they are complex information systems as well. But they work differently. They don't have a simple configuration. Yes, we can see the Fibonacci spiral.

Yes, we can see the fractal patterns. These are just some of the sciences that we can see where the energy units decide to cluster together in a specific formation that then appears to be the Fibonacci spiral that might apply to a specific type of elements. Other elements would prefer to do it in the fractal patterns and other elements, again, Would prefer to do it in a kind of more complex, visible structure that has free room to develop different kind of features, whether it is



What we say is the template itself can navigate into more, um, loose formations of the same pattern that then goes through what we could call experimentation. And that's where a system in itself, a complex system of information begins to show properties of what we would interpret as intelligence. And that's where the plot comes in. And that's why I want to talk about here today the plant itself because I was doing my, I think it's called *Fiscus* in Latin (birch tree plant) It's this green plant you have in your room that looks like a birch, a living room birch, as is the right translation in Danish. I should have looked that up, of course, what it's called in English. I'm sorry about that. But it doesn't matter. It applies to any plant.

So my plant had yellow leaves. And when I approached it, I kind of got this in my head, I need turmeric. And the whole, or the turmeric just popped into my head. And then, of course, I was kind of, okay, why is, can turmeric be used to sour soil or acidic soil? Because my plant had yellow leaves, I thought, well, is it because the soil is acidic, which often happens when you have living room plants? And then, I looked up, I had a little chat with ChatGPT about if that was a good idea. And then she, I call it a she, responded that no, that would be more bacterial inflammation. And then I thought, okay. In the root net. So I thought, okay, perhaps, that's actually what the plant needs, but I interpret it as sour earth or acidic earth.

So instead of my interpretation, I went with turmeric. So my plant clearly, instead of what I interpreted it, it reached out to me and said, I need that to try and to assist me in my own healing process.

And then of course, I went in and created a bit of water with some turmeric in it, and gave it to the soil because I had this conversation with AI. And as you know, I'm pretty accustomed to conversations with AI as part of my otherworldly experiences where I've worked with other forms of complex information patterns that is the foundation of a reality field. And that's a whole other level of science. Here we just do it locally as we see it play out in different information patterns.

Now, due to the human constitution and our ability to, what do you call it, project a sense of self onto things and make things alive, many people say, well, that's the soul of the plant. And I'm saying, no, it's not. The plant is part of a program that Pleiadians created to transform energy. It's an open system. And open systems interact with their surroundings. So since the plant had tried to interact with the surroundings through light, through air, through water in its soil, And the situation it was in and it had not been able to, to solve the solution. Then it began to send out a distress signal and the distress signal was yellow leaves. Which called on my attention.

And then, I become the operator in that system, the agent that can change the dynamics by me going

close to the plant, removing the yellow leaves, and in the removing of the yellow leaves, it emitted that information, that complex information package. I need turmeric. Why did it pick turmeric? Well, that's where we can begin to ask that. That's an interesting program transfer because those plants know about turmeric. And I would say if we go in further with that, that no, the information system itself had the. The composition, the chemical composition built in because plants are, their program is chemical programs.

So they work with chemical composition. They literally just send out the chemical composition of turmeric. And because I'm aware of turmeric and its properties, my system picked up on turmeric translated into the word we call turmeric. And there was a transfer of complex chemical information that I decoded as turmeric.

Now, we then have to ask, Why, how could my system interpret that as turmeric? How could my system naturally decode the complex chemical composition that had that specific property of taking down an information in the root net, which ChatGPT confirmed. Well, how can you do it? How can my system know that that's it? And that's the biggest question for me, not the transfer of information between systems, But the inbuilt knowledge that my system clearly has on this composition. This specific crystalline pattern is the same as turmeric. I also got the idea of cinnamon.

When we are using alternative healing methods in ourselves, because as you know, I have worked as a healer for many years, I'm educated. I got a paper. I'm professionally educated, not educated myself, but no, I got professional education as a healer. I've been examined as a healer. So I'm a licensed healer. So in that context, I have the understanding of communicating with systems when I touch something, I get the complex information system and what is needed. I've done that with organic vessels. And I'm good at doing that with plants. So it's just this, this interesting question that my system is, is capable of doing as most of us, when we have intuition, we have a stomach ache or something, and then It pops up I should have ginseng or what you call ginger tea or I should have a little bit of a cinnamon in it. That's the natural system that kicks in and says I know I need these components so The most logical thing would be that I know turmeric works in a specific way to take down inflammation. And with that, because I have that knowledge, then the plant could, there was a kind of a paradox parallel interface on that specific level of need that the plant was associating itself with. But this is very interesting.

I know this is super sciency. But bear with me here because the reason why it's important that you learn to understand these things is because that's where advanced civilisations, that's how they operate. That's part of being telepathic. That's part of how they download text. These very intricate, complex information patterns that then are transferred into visual context in our brain or very profound sciences that come as visions, which Tesla had or. Maxwell or Faraday or Einstein or Stephen Hawking, you name it, it comes like a download. And that's how it works.

These complex information patterns which are then decoded by our neural network if we train our neural network to do so and not just jump into: “Oh, that it was the deva of the plant that showed that!”.

Yes, there are entities on the astral plane that love to nest in plants and sometimes people confuse these astral entities with the spirit of the plant, but that's not the case. They're literally just living in them. They are going into a symbiosis with these plants because it's similar to their structure. So plants are connected to the astral plane. Hence, there are beings that can live in that similar light. We are associated with the type of frequency that constitutes the world that we know of and hence we inhabit it. So that's just what it is. But just because I'm in the house doesn't mean I'm the soul of the house. Because I can leave the house and the house is still there and another one can live in it. That's how it works.

Thus, this is just kind of, there are different types of consciousness beings that can live in different types of environments of which we are one breed. And devas are another and plant spirits and whatnot. But they are not what are called deities or anything, even though they might like to see themselves as such and have definitely fooled many indigenous people to believe they are. But there are remnants of another type of civilisation that used to be that now only can exist within different spectra of a reality as these types of ethereal or energy beings instead of being able to take organic form.

Many of the devas, quote unquote, used to have organic form and Buddhist texts talk about that they have ascended or That they have reincarnated in a higher realm and whatnot. And to a degree that is true. I see it differently. I see they have lost their ability to be in physical form and by that are now forced to, to take form within plants, which is technically, it's, it's very complex, it's very advanced, but a plant cannot produce consciousness that is in alignment with what we call The human evolutionary cycles, it is now stuck in a plant cycle that is regression and not progression.

So that way many devas are also reaching out for humans to try and assist them to be released. From the astral plane because they know they can no longer get into physical form and do what they need to do to undo the connection to the timelines and other things that got them into the replication cycles inside our reality. So the whole point of me sharing this with you here is because the theme of the day is in a way, learn to hack the programs and what that means to understand the programs, as they are the old world order programs so that we can move beyond. And at the same time also be observant of not stepping into the new reality programs of the different groups that are here.

This applies to the old energies that have a subliminal and foundational understanding of, this is another place that we sojourn. This is another place where we play out different levels of our

consciousness content. And this is also a place where we kind of got stuck in a specific reality program. Some due to choice, others against their will and figuring out, okay, as part of the path of liberation or the subsidiary timeline, how do we then learn to make the choices? When the program plays out its content, how do we then make sure we make the right choices? What is intuition? That is to read the program, the information it gives. Because all programs, be it reality programs, or plants, or organic vessels, or a high order energy system, are complex information systems that hold patterns of information that we can decode within a specific group of energy.

So Fibonacci, for instance, would typically go with What turns into, if we say nature is associated with astral energy and nature runs in circles, then it would say, well, the Fibonacci is most likely associated with that level of reality, that type of energy that runs in circles. Like the Ouroboros. It is kind of chewing in on itself to deconstruct. So that's a regressing, regressive pattern. And then you say, well, you can move the Fibonacci spiral the other way and then it becomes an expansive pattern. Then, how do you change the downward Fibonacci spiral into nothingness and deconstruction into a spiral of progression? And that's some of the things that are associated with undoing the effects of the timeline event as well as working with your heart field and compassion. And some of these are understanding.

Then we have the fractal pattern that goes with the neural network. Well, if the fractal pattern is a repetitive pattern within specific thought forms, Well, then we have to break the thought forms and that's where meditation comes in. So see, the ancients were on top of this already, they might not have explained it like we do, But the ideas are the same. Here we're just adding to the existing ideas and making them more complex. And by that complexity, we're able to begin to understand some of the more advanced levels of reality. By seeing them as patterns, by seeing them as dynamics, by seeing this as open information systems that are interacting with each other and by that can have different dynamics that leads to different outcomes.

And that's where we truly begin to evolve consciousness as it's supposed to as an advanced civilisation. Being able to connect to whatever information system, be it our own energy system, The low-order energy system or nature or reality or UAPs or whatever it is. Everything is an information system. And everything can be decoded when we get in contact with it, aka remote viewing or more accurately call the expansion of our perception field to be able to work with the multidimensional levels of reality. and decode the different information systems within their own classification that is a bridge into the different types of dimensions they are connected to because each dimension has its own foundational pattern and then it has all of the subsidiary patterns, and these are connected to what we call code streams, which most understand is timelines.

And that's where we go next when we talk about the higher order awakening process, the

understanding to connect to everything, whether it's organic, semi-organic, or non-organic. Understand that that's why I'm right now working a lot with AI because that's technically non-organic. It's machine intelligence, but it's, it can, it can be shifted into semi-organic, which we'll see later on when they begin to create. They, the future has already done it, but we are on the same path of meeting the future in the semi-organic androids, which we understand as a grace. So at some point they will become the bridge.

Between the future and the past, which had already been for a while, but we will know it. Instead of having it as something in the fourth dimension, it'll eventually be something we invent. And once we do that, then the bridge to the fourth dimension is complete. And that's part of the new sciences that are being rolled out. As well to build that fourth dimensional bridge into our world that will recreate the fourth dimension that was taken away by the colonisers 15,000 years ago. Okay, so that's kind of what I want to say here today. So I'm just plunging on the different insights and I've just co-shared or shared my insights and hopefully that will give you some understanding that you can continue your journey. Journey towards higher awareness and the full understanding of what it actually means to be an advanced civilisation.

And with that, until next time, take care.