PSYCHOTHERAPY AS AN ORGANISM AND OPEN SYSTEM: A CONCEPTUAL FRAMEWORK BASED ON HEGEL'S ORGANISM AND von BERTALANFFY'S OPEN SYSTEMS

[Bir Organizma ve Açık Sistem Olarak Psikoterapi: Hegel'in Organizma ve von Bertalanffy'nin Açık Sistemleri Temelinde Kavramsal Bir Çalışma]

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ABSTRACT

In this paper, I will summarize Hegel's conceptualization of organism in relation to von Bertalanffy's discussion of open systems, and discuss the practical implications of these conceptualizations in the context of open systems, particularly in psychotherapy. I hypothesize that these two conceptualizations are not only sharing similar perspectives but they also nourish and expand our understanding of open systems, and encourage a dialogue between philosophy and social sciences. In this regard, first, I will visit the characteristics of organism in Hegel's work and of open systems in von Bertalanffy's work, and then provide practical implications of these conceptualizations in the context of psychotherapy. I discuss that psychotherapy is an organismic open system which is not only a means towards the Spirit's dialectical development of selfconsciousness, but also an end which includes the basic characteristics of Hegel's organism and von Bertalanffy's open systems.

Keywords: Psychotherapy, organism, open systems, Hegel, von Bertalanffy

ÖZET

Bu makalede von Bertalanffy'nin açık sistemler tartışması bağlamında Hegel'in organizma kavramsallaştırmasını özetleyecek ve bu kavramsallaştırmaların pratik imalarını psikoterapi

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özelinde açık sistemler bağlamında tartışacağım. Bu kavramsallaştırmaların yalnızca aynı perpektifi

paylaşmadığını, aynı zamanda psikoterapi özelinde açık sistemler anlayışımızı beslediği ve

geliştirdiğini, ve felsefe ve sosyal bilimler arasındaki diyaloğu gelistirecegini öne süreceğim. Bu

bağlamda öncelikle Hegel'in çalışmasında organizma ve von Bertalanffy'nin çalışmasında açık

sistemler kavramlarından bahsedecek, ardından bu kavramların psikoterapi bağlamındaki

anlamlarını tartışacağım. Psikoterapinin organizmik ve açık sistem olduğundan, yalnızca Tin'in öz-

bilincinin diyalektik gelişimi sürecinde bir araç değil aynı zamanda Hegel'in organizma ve von

Bertalanffy'nin açık sistemler özelliklerini taşıdığından bahsedeceğim.

Anatar Sözcükler: Psikoterapi, organizma, açık sistemler, Hegel, von Bertalanffy.

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Introduction

General Systems Theory is proposed by von Bertalanffy in early 1950s and since then it has been

affecting various fields including biology, mathematics, psychology, and

psychotherapy. Throughout his career, besides proposing the goals, purposes, structure, and

functions of systems theory, von Bertalanffy provided a comprehensive critique of the dominant

scientific discourse as the main reason of why a systemic approach is needed for the progress of

humankind (von Bertalanffy, 1969). Hegel's philosophy discussed in early 1800s and inspired 19th

and 20th century Zeitgeist provides a perspective similar to the one von Bertalanffy has discussed in

which the Spirit is conceptualized as a mean and an end of a larger system that is continuously

progressing towards the absolute knowledge.

In this paper, I will summarize Hegel's conceptualization of organism in relation to von

Bertalanffy's discussion of open systems and discuss the practical implications of these

conceptualizations in the context of open systems, particularly psychotherapy. I hypothesize that

these two conceptualizations are not only sharing similar perspectives but they also nourish and

expand our understanding of open systems, particularly of psychotherapy. In this regard, first, I will

visit the characteristics of organism in Hegel's work and of open systems in von Bertalanffy's work,

and then provide practical implications of these conceptualizations in the context of psychotherapy.

I discuss that psychotherapy is an organismic open system which not only is a means towards the

Spirit's dialectical development of self-consciousness, but also an end which includes the basic

characteristics of Hegel's organism such as sensibility, irritability, and reproduction, and von

Bertalanffy's open systems including equifinality, multifinality, and probability.

Before the discussion of organisms and open systems from both thinkers' perspectives, it is

essential to highlight that the basic similarity in von Bertalanffy's and Hegel's conceptualizations

lies on their understanding of human nature as an intentional being having the capacity of symbol

formation and meaning making. The human beings are not only open systems and organisms as

their animal counterparts, but also are capable of developing a system of signs and symbols

including art and language, and communicate intentionally through those signs and symbols.

von Bertalanffy (1968, p. 10-11) argues that scientific paradigm dominated by behavioristic,

psychoanalytic, or electronic principles is based on a zoomorphic fallacy in which the humanly

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characteristics of humans are dismissed, the distinction between humans and animals are cancelled,

and human beings are conceptualized as the non-autonomous products of the external forces such as

permissive or authoritative parenting, resolved or unresolved Oedipus Conflict, or being born in a

community with a high or low delinquency rate. Broadly speaking, he criticizes the paradigm

Watson (1924) speaks from when he writes the following:

Give me a dozen healthy infants, well-formed, and my own specified

world to bring them up in and I'll guarantee to take any one at random and train him to become any type of specialist I might select--doctor,

lawyer, artist, merchant-chief, and, yes, even beggarman and thief,

regardless of his talents, penchants, tendencies, abilities, vocations, and

race of his ancestors.

The deterministic approach towards the behaviors and attitudes of human beings provide an

immediate, heaven-like feeling that frees them from the "responsibility" of their doing and being

while putting an enormous emphasis on the external forces, and provides a conceptual-ground for

the idea of all the internal-good is determined by the external-good happening to them. However,

from a von Bertalanffy's lens, in the long-run, the self-imposed lack of autonomy starts to take over

as the shadow of the freedom of responsibility which we clearly experience in our current society.

Based on his background in biology, von Bertalanffy (1968) provides an expansive discussion on

the similarities between animal and human nature, and ends his discussion noting that rather than

getting lost in the rabbit holes of a zoomorphic phantasy, we need to explore further the qualities

that are specific to humankind that are *symbols* and *systems*.

We see a similar discussion and conceptualization of humanness in Hegel's systematic philosophy.

Broadly speaking, Hegel proposes that through the Aufhebung principle, the Spirit transcends to

higher-order structures by means of preserving the lower-order qualities. In his *Philosophy of*

Nature, Hegel (2004, §272) presents the animal organism after the Vegetable Nature and before the

Subjective Spirit sections in which he clarifies these moments in these sections. According to

Hegel, the animal organism is the state where the Spirit gains the capacity of self-movement, as

opposed to the vegetables, which serves as the precursor of all other qualities including developing

higher brain structures and functions to provide the self-movement capacity.

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Hegel argues that the distinction between animal as such and humans is consciousness which he

defines as an intentional way of relating to the world from a subject-object relationship. That is,

unlike the Geological Nature elements like sands and rocks, or Vegetable Nature counterparts like

trees and plants, the human beings are capable of experiencing the inside and outside world from

the position of *subject*. Intentional relating to the internal and external from a self-standpoint makes

human beings not only capable of self-movement like their animal counterparts, but also capable of

self-reflection which is a characteristic specific to human beings. In the evolutionary process of the

Spirit's in developing self-consciousness, the capacity of self-reflection is the precursor of

developing signs and symbols, create meaning, and differentiation of Spirit from the nature.

Thus, in both von Bertalanffy's and Hegel's conceptualizations, the human beings are defined as

entities having organismic structures (like animal state of Spirit) and creating meanings through

self-reflection capacity (distinguishes human beings from other living organisms).

Organisms and Open Systems

Regarding the concept of organism, Hegel uses the words organism and organic systems in a variety

of places in his work, particularly in his discussion of Life in Science of Logic and in his discussion

of Animal Organism in *Philosophy of Nature*. Even though he does not provide a solid definition

regarding the concept of the organic system, in *Philosophy of Nature* he defines organism as a unity

which becomes self-related and subjective through relating itself. In Hegel's conceptualization, the

organism is characterized as self-related and subjective because as opposed to the immediacy of the

geological and vegetable entities, the animals are not solely dependent on the external factors such

as water and light and are capable of self-movement while preserving their selves.

Similar to Hegel's conceptualization, according to von Bertalanffy (1969), every living being is an

open system. Unlike the closed systems where there is no elements entering or leaving the system

such as a thermostat, car engine, or fridge, in open systems such as biological organisms or social

communities, there is always a flow between inside and outside of the system, as well as within the

system. The open systems are continuously active, rather than passive react-ors to the outside world

like the vegetable nature elements in Hegel's conceptualization. In von Bertalanffy's (1960) own

words:

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Even under constant external conditions and in the absence of external stimuli the organism is not a passive but a basically active system. This applies in particular to the function of the nervous system and to

behavior. It appears that internal activity rather than reaction to stimuli is fundamental. This can be shown with respect both to evolution in lower

animals and to development, for example, in the first movements of

embryos and fetuses.

The capacity of self-movement, rather than being passive reactors to the environment is a crucial

point in both thinker's conceptualizations. The organism having the capacity to be active by

themselves from their subjective intentionality inherently conflicts with the dominant scientific

paradigm that is focusing on finding the causational relationships between the factors, such as

traumatic childhood experiences and adulthood psychological problems, or bell ringing and

salivation of the mouth. von Bertalanffy (1960) highlights what Hegel mentions as the (animal)

organisms not being immediate responders to the inside and/or outside environment: The organisms

are active and intentional.

The organisms create meanings (symbols) and their responses (such as, salivation of the mouth) to

the environment are not sole reactions to the stimuli (such as, bell rings) but the complex outcomes

of complex processes among the relations between inside and outside and within the system as

such. Failing to miss the subjective and intentional nature of the organisms, in von Bertalanffy's

(1960) understanding is not only a wrong, but also a "dangerous" one, as doing so causes

"composing sonatas or lyrical poems" to lose their meaning.

Hegel (2004, §279) describes the organism in term of its subjective, intentional, and self-movement

capacity and do not elaborate in detail about the particularity of the elements of the organism.

However, he highlights the interdependence of the system elements forming a concrete unity, a

gestalt in which "each member is reciprocally the end and the means, maintains itself through others

and in opposition to them. Conceptualization of the system elements as the *end* and the *means* refers

to the functions of the elements that are both constituting the system, but also constituted by them.

In this regard, in Hegel's (2004, §262) conceptualization, the particular nature of the elements of the

system are less essential compared to their roles within the system. They together form the process,

a process of development.

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The members of the organism ... are the particular individuals, and constitute a system whose forms manifest themselves as members of the unfolding of an underlying idea, whose process of development is a past one.

From a similar standpoint, von Bertalanffy (1950) provides a comprehensive description of the elemental nature of the organisms as open systems. He argues that the elements and the processes among the elements of the closed systems are identifiable and reversible. For example, the thermostat in a room, a combustion cylinder in a car, a fridge in a kitchen are all examples of closed systems with identifiable and reversible elements and processes. When the fridge is set to a degree of X, the system will work to come to the degree of X and will stop there. The process of cooling can be reversed by means of chemical settings. However, in open systems because of the constitutive characteristic of continuous flow from and to the system neither the elements nor the processes can be fully identifiable. Along with the lack of our ability to identify the elements, the processes cannot be reversed or replicated. Thus, the descriptions and explanations regarding the open systems remain *probabilistic*, as their elements. In von Bertalanffy's (1950) own words:

There is a fundamental contrast between chemical equilibria and the metabolizing organisms. The organism is not a static system closed to the outside and always containing the identical components; it is an open system in a (quasi-)steady state, maintained constant in its mass relations in a continuous change of component material and energies, in which material continually enters from, and leaves into, the outside environment.

In both conceptualizations, the thinkers highlight the role of the elements of the system and the processes among them over the particular, individual characteristics of the elements, which again seems to be contradicting with the current scientific paradigm focusing on the content over the process, and highlighting the individual characteristics over the roles. For instance, in psychotherapy literature, most recent research shows that currently there are more than 400 treatment practices that are scientifically proven to be effective (Zarbo, Tasca, and Cattafi, 2015). The treatment methodologies equally highlight that "their" content of the treatment approaches per se are different and particularly distinct compared to the other ones. However, despite the clarity of

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the information about the distinct content based characteristics of these modalities, the research

shows that they are not only resulting with similar outcomes (Duncan, Miller, Wampold, and

Hubble, 2010) but also they provide us very little information about how distinct these treatment

approaches are in terms of process of change and the particular roles of the treatment elements in

the process of change (Sprenkle, Davis, and Lebow, 2009).

As mentioned in the stimulus-response paradigm discussion of von Bertalanffy (1969), we are

informed that the different stimuli, such as emotion focused treatment technique as opposed to

behavior focused technique is "resulting" in the clients feeling better which is considered as the

"evidence" of treatment being effective. There is a need for the studies exploring the

interrelationships among the elements of the systems and their roles in the wholes and systems. In

this regard, from Hegel's and von Bertalanffy's perspectives, we need approaches that are

highlighting the process over the content, the functions over the particularity of the elements in

order to understand the organisms and open systems better.

According to Hegel (2004), apart from subjectivity and self-movement characteristics, there are also

three determinations that are making an animal organism a living being: sensibility, irritability, and

reproduction. The interdependent nature of the relationships among the parts of the whole provides

a self-feeling ability to the organism. The moment of sensibility is the capacity of the organism to

feel, to experience the information coming from inside and outside. In Hegel's (2004) work,

sensibility is defined as the moment of universality, the essence of the organism. The organism is

able to receive information from inside and outside and create a concrete sense out of the

information received. Along with the constitutive moment of sensibility, the capacity of the

organism to respond, to react the information it receives is defined with the moment of irritability,

referring to the particularity, defined as "the excitability from the outside, and on the other hand, the

counter effect coming from outward movement of the subject." Finally, the last moment,

reproduction, is the capacity of the organism to unify the sensibility and irritability moments

through means of transformation, and "thereby the generation and posing itself as an individual."

The moment of reproduction, thus refers to individuality, the singularity of the organism within the

system.

von Bertalanffy (1969) provides an almost identical discussion about the open systems capacity of

receiving information as their differential and constitutive characteristics in relation to the closed

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systems. The capacity to be "open" to the information coming from inside and outside the system as

such differentiates them from the closed systems and constitutes them as subjective and unique

entities. Also, in von Bertalanffy's conceptualization, the open systems' capacity to be

irritated/excited and to respond to the information received and to re-produce these information

through the process of transformation are also discussed as constitutive characteristics of the open

systems in relation to the closed systems.

For example, in the context of psychotherapy which is an organismic and open system, the clients

and therapists, are capable of receiving information and actually it is the information from inside

and outside makes the psychotherapy process rolling. There is no pre-determined process or roles or

outcome is possible in the process of psychotherapy. The elements of the psychotherapy system

including the therapists and the clients, like the Spirit developing self-consciousness towards the

goal of achieving absolute knowledge in Hegel's conceptualization, moves together towards the

therapy goals, by means of receiving the information, creating meaning out of the information

received, responding to the stimuli along with their meaning making processes, and transform (and

be transformed) through the communicated information.

Here it is important to note the discussions on equifinality, multifinality, change constant, and

entropy von Bertalanffy (1950) provides in relation to the characteristics of the open systems.

Along with the functions of sensibility, irritability, and reproduction, von Bertalanffy adds that in

open systems, contrary to the closed systems in which the outcomes are determined by the initial

elements and processes, the outcomes cannot be determined from the start. Same outcomes can be

attained by different initial elements and processes which is defined as equifinality. For instance,

even though two clients come to therapy with differing levels of anxiety, at the end of session 5,

both may feel the same level of anxiety. Similarly, two clients who started therapy process with

same level of level of anxiety might end up reporting differing levels of anxiety at the end of

session 5. Same start point ending up different outcomes is defined as multifinality (Cicchetti, and

Rogosch, 1996) in social sciences. The meaning making capacity as well as their openness to the

environmental influences of the open systems constitutes the equifinality and multifinality

principles.

Another characteristic of the open systems, von Bertalanffy (1950) adds on is the constant change

of the open systems to remain constant. In open systems, the system may attain a state of

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equilibrium but the process is not the same as it is in closed systems that are programed to attain and stop at the equilibrium state. Because there is no possibility of a true equilibrium, the equilibrium range is named as steady state in open systems. In closed systems, unless the equilibrium changes, the system does not function. It starts to work when a change happens in the equilibrium to get back to the equilibrium state. For instance, the thermostat works to attain the determined degree, stops when the degree is attained, and starts working again when the degree changes. In open systems, because of the continuous in and out flow of the elements, the system keeps functioning to maintain itself at the steady state, and the system constantly changes to adapt to the in/out-flow, to remain unchanged. For instance, regarding the body temperature which is an open system, the average temperature "range" is 35.3–37.7 °C (95.5–99.9 °F). The body constantly works to keep the body temperature in this steady state. The similar principle works in the context of psychotherapy that constantly changes in order to remain unchanged. The clients and the therapists keep meeting regularly at the same time and place, and exchange information while both of them constantly change while the psychotherapy process keeps being in the same shape. The essential point in this process is that along with Freud's (2015) discussion of Eros and Thanatos or Whitaker's (2011) discussion of struggle for struggle and initiative, or simply Hegel's (1998) discussion of Aufhebung, there is always a conflict, a tension among the energies within and among the systems which can result in either way: *Reproduction* or *Destruction*, or Entropy.

von Bertalanffy (1950) highlights that in closed systems, entropy must always increase and thus be positive based on the second law of thermodynamics. However, in open systems, because of the irreversible nature of the open system processes, the possibility of entropy can not only be prevented but also be transformed into a higher order state. The system can repair, re-produce, and transform itself in open systems, unlike the closed ones. In *General Systems Theory*, von Bertalanffy (1969) provides a detailed mathematical description of the change process of the open systems arguing that the direction of the growth towards positive (reproduction) or negative (destruction) depends on the elements within the system which are not infinite. The logistic curve, the "curve of an autocatalytical reaction" he highlights that the growth is a reaction product obtained that accelerates its own production. That is, according to von Bertalanffy, growth is possible through the capacity of the organismic open systems to transform the received information within itself. Hegel (2004, §295) provides a similar conceptualization in the context of medication as he conceptualizes medication as the elements that excite, irritate, and motivate the organism to

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use its own resources to contain and overcome the disease. He argues that medicine functions as a

"provocation" in the organism where it is "irritated" to overcome a disease via exerting its entire

strength. That is, it is not the medication that is healing to the organism. It is the provocation,

irritation, motivation that the medication provides the organism to use its very own resources. In his

own terms, Hegel (2004, §298) writes:

Medications are negative irritants, poisons, a stimulant ... to the extent

that the organism is alienated from itself in disease must gather up its strength, turn against the medication as an external, foreign body, and

thereby achieve again the self-feeling of its individuality.

As implicitly stated in this description of organism functions, Hegel puts a special emphasis on the

boundaries of the organism which not only provides a shape for itself, but also constitutes the

inward and outward functions of the organism that basically are self-preservation and re-generation

of itself. Along with the conceptualization of the organism as a system defined by the boundaries

separating the inside and outside functions, Hegel (2004, §283) moves on to conceptualize the

relationship between inside and outside of the organism as a "tension" that satisfies the condition of

a need in which the organism receives the needed information from the environment through the

process of assimilation, which differentiates the animal organism from the vegetable nature and

gives it a specific characteristic. Assimilation, in Hegel's (2004, §285) terms is defined as an

"immediate fusion of the ingested material with animality, an infection by the latter and a simple

transformation. Thus, in accord with Hegel's dialectic methodology, the tension between inside and

outside provides the fuel for production, which differentiates the animal organism and specifies

itself within the larger system of nature.

The issue of entropy in the context of psychotherapy has been discussed since the beginning of the

birth of psychotherapy as a treatment practice (Freud, and Bonaparte, 1954). Along with the

conceptualizations discussed above, the purpose of the psychotherapy process is to stimulate the

organism of the client to accelerate its own reproduction of meaning, to transform the information

received during the psychotherapy process, and to develop self-consciousness towards the goals. In

this regard, psychotherapy as such is also a means and an end: A means functioning as a medication

which accelerates the growth of the individual in the process of them developing self-consciousness

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and reaching their therapy goals. And an end which includes its own elements and dynamics, and

represents the characteristics of organismic open systems, including intentionality, sensibility,

irritability, equifinality, multifinality, reproduction, entropy, and above all, the capacity to create

meaning out of the experience and transform the meaning into different meanings through the

productive transformation of conflicting energies in and out of the system.

Overall

In this paper, my goal was to summarize Hegel's conceptualization of organism in relation to von

Bertalanffy's discussion of open systems which I believe not only is rooted at similar perspectives

but also nourishes and expands our understanding of open systems, particularly of psychotherapy,

and encourages a dialogue between philosophy and social sciences. In this regard, first I visited the

characteristics of organism in Hegel's work and of open systems in von Bertalanffy's work, and

then provided practical implications of these conceptualizations in the context of psychotherapy. I

discussed that psychotherapy is an organismic and open system which is not only sensible, irritable,

and capable of reproduction (and entropy) as do the organisms in Hegelian sense, but also

intentional and probabilistic in terms of content and process. Along with the discussions of von

Bertalanffy and Hegel, I argued that psychotherapy is both a means, a tool, a moment in the process

of Spirit's developing self-consciousness towards absolute self-knowledge, but also an end

containing and transcending all the elements of open systems.

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