

## Animal Physiology as the Water Cycle

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### ABSTRACT

*The following statements are a consequence of the perception of water as a living element of the human organism.*

*Water occurs in the system in two states – involved in production in cells and as regenerating outside the cells. The place of water regeneration is the cerebrospinal fluid. This represents a structure that evaluates, among other things, the content of water. This information then enters the control system via the thalamus.*

*Water regeneration is ensured by specialized brain glia cells. They are the key production units of the entire living system. Their organization into similarly focused units creates the cerebral hemispheres.*

**Keywords:** *Element, water, dissatisfaction, cell, management*

### Introduction

By studying various living systems, it is possible to observe their common properties. First of all, these are democratic systems, whose activity, changes and direction are built on solving the dissatisfaction of their elements.

Just as, for example, human society is built on man and solves his dissatisfaction, the system of animals and plants is built on the water molecule and its dissatisfaction.

These living systems must, above all, be able to evaluate this dissatisfaction. They must ensure a fair share of the elements in the use of common production. And gradually define the overall satisfaction of the system and use it in management.

### Methodology

The basis of most of the claims in the presented text are the results of the work of the model, built on the time series of American stocks. In American society, the model then identified a living system.

The claims for other systems are then based on the principle “per analogiam”.

### Element

An element of a living system is a living object that, by its involvement in the system, solves its needs and, consequently, its dissatisfaction.

After it has been involved in the production of needs and has become tired accordingly, it leaves to regenerate outside the production area.

In animals and plants, only the water molecule meets these properties. Water is an element, water is a living object and this living object is created for it.

Thanks to its involvement in production units (PJ), the element acquires a kind of exchange value (OH) as a quantum of exchange units (OU), which it then uses and consumes during its regeneration. This, among other things, guarantees merit.

### Element Regeneration Needs

From the perspective of every living object, its regeneration needs are twofold. On the one hand, these are material inputs, e.g. in animals called food (PO). On the other hand, these are products

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having the character of services, i.e. the creation of appropriate conditions for the regeneration of the element and the use of its material inputs (OA).

The element solves the division of OJ into the acquisition of PO and OA at its discretion. The needs from the PO group are relatively given, namely by the structure of the element itself. However, the resources that it invests in the acquisition of OA are largely given primarily by the possibilities of the element. In economics, this division is close to the concepts of superfluous and necessary goods. To what extent OA prevails over PO is a certain manifestation of luxury and generally has a growing trend.

The central nervous system (CNS) of the animal controls the chains of connected PJs and this control is the neuronal part of the cortical columns. In the grouping there is always the entire production chain from the inputs to the system to the output for regeneration. And this grouping is always specialized either for the production of PO or OA.

In the cerebral cortex, it is a part of a sequence of glia that is part of a particular cortical column and is either in one hemisphere or the other, and its production is focused accordingly.

The regeneration of water molecules then takes place in the cerebrospinal fluid (3M), where the elements go after their involvement in production in the PJ.

## Central Nervous System

Unlike the VNS, which solves the dissatisfaction of the PJ, the CNS starts from the dissatisfaction of the elements. Just as in astrophysics, dark matter (DM) is an organized collection of regenerating elements, in 3M this regeneration must be ensured. The elements here spontaneously, i.e. without the intervention of the CNS, draw regeneration needs from the PJ, based on their OH possibilities. And they decide for themselves what their ratio between PO and OA will be.

In addition, each element somehow experiences its state of satisfaction as a result of more or less fulfilled regeneration needs. And this satisfaction is then evaluated by the system. Each element also has its own certain ideas of a solution, in the roughest solution associated with either a reconstruction in the supply of PO or OA.

As a result of such structured dissatisfaction, the CNS is activated in one of two parts. In the one that causes the reconstruction primarily PO or OA. Already in 3M, the spread of information about dissatisfaction to the left or right thalamus occurs. If dissatisfaction in 3M is evaluated as requiring a systemic solution, the relevant thalamus is activated – the living object enters consciousness.

The choice and activation of the thalamus is also determined by other properties of the system as they are manifested in 3M. First of all, branching will take place according to the state of the corresponding outputs of PO or OA from the point of view of the needs of the elements.

Finally, it is also a very important indicator of the “wealth” (BO) of the elements, as reflected in the ratio between the collectively used OH resources for the acquisition of PO and OA. The CNS has a value of the wealth of elements determined for a given moment as an average of the individual BO values of the elements.

An element is a living object, and so it also has its own internal, structural definition of wealth. This is then manifested during its regeneration and co-determines a kind of controlling, average value of wealth for the entire CNS. Instantaneous values oscillate around it at a given time. Branching in 3M tends to activate the opposite group of PJs so that the instantaneous wealth of elements approaches the system level. It is a control aimed at balancing BO over time.

The BO sensor is unknown, its function in the economic model was fulfilled, for example, by a quantity describing the activity of shares of companies associated with gold mining. If their activity was connected to the systemic consumption of the industry, the dispersion of these mining companies and their success was small. However, if gold mining was dominated by the needs of investment, saving money in gold and possibly in luxury in general, the dispersion increased. And this was the decisive moment for the emergence of the BO event. It should be noted that this quantity has nothing to do with, for example, inflation in the economy.

## Thalamus

The hemispheres as a group of specialized columns represent a set of solutions. One hemisphere is specialized to some extent for problem solving, and therefore the reconstruction between PJs with PO outputs and the other then for a group with an impact on OA. These PJs are mainly from the group of brain glia. Specifically, it is the glia that is in the background, it is part of each column. In the column, the glia itself is the main group, it flows into the 3M and ensures the regeneration needs of the elements. The neuronal part around it is the reconstruction apparatus for this glia. Pyramidal neurons of various types and at different levels of the column then ensure that these production, glial groups are rebuilt in such a way as to eliminate the reason for entering the consciousness of the system - dissatisfaction of the elements. And this never-ending reconstruction is thinking.

It is a reconstruction within the column, between the columns, between the hemispheres, and finally also a reconstruction, movement into the animal's surroundings. All with one goal - to eliminate dissatisfaction.

Only glia is capable of producing that subtle need for elements, their PO and their OA, and only it is capable of spreading them into the 3M to the elements.

## Expectation and Emotion

In the cerebral cortex, quantities of a new order arise. Both are based on the assumption of active thalami, or on the existence of a unifying object quantity of consciousness. One arises at the beginning of each cortical column and is the quantity of expectation

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(EX). It describes the sum of the OJ that the system can expect under given conditions through the activation of the relevant column.

Each column is a sum of possible transformations that can be activated under given circumstances. The CNS must be able to select the most advantageous ones. One of the criteria is precisely the EX that occurs when a certain transformation is carried out.

The second global quantity is emotion. It is a higher-order satisfaction associated with the entire object. It arises on the basis of the activity of the thalamus, i.e. consciousness. If a large number of columns are ready to be activated in the hemisphere, this is significant information for the system. Each prepared column means that the system has encountered a similar situation in the past and has a solution for it. In other words, a given combination of dissatisfaction, wealth and other parameters is solvable. Each column offers a solution, i.e. the reconstruction of the glia chains in such a way as to solve that dissatisfaction. The CNS activates those columns where, for example, there is a high EX.

The amount of these usable columns is an emotion. It is positive in a situation where their amount is above some tested limit, and negative below this limit. The distance from it is then the intensity of the emotion.

By the way, EM is not related to BO.

It seems that the mechanism of the formation of the mentioned global quantities is as follows. EX is formed in the first layer of columns using both non-specific activity of the thalamus – during consciousness – and the sum of the expected output of glial cells in the hemisphere. EM is formed in the sixth layer using non-specific information about the activity of the thalamus from the fourth layer and specific information from the sixth.

## **Vegetativ Nervous System**

The activity of the VNS is analogous to the activity of the CNS,

but it is a control at the level of the entire object. It is not activated and does not resolve the dissatisfaction of the elements, but the PJ. Similar to the CNS, it is activated not only by the accumulation of dissatisfaction, but also by other parameters evaluated in the blood. However, when it comes to the BO quantity, it is taken over from the CNS, it is the same!

And so it happens that the VNS activity realizes the wealth quantity at a higher level, for the entire object, by switching between the sympathetic and parasympathetic. The new value approaches the value from the CNS and is defined as the excess of sympathetic activity over parasympathetic.

Similar to how the BO is involved in the control of the VNS activity and by switching between the sympathetic and parasympathetic, the EX also acts analogously. It enters into the activation of one orientation of the VNS activity – it seems to be the sympathetic – and its size then increases the probability of its activation.

In these activities, there is an analogous focus of outputs, as was the case with the PJ in the CNS. It is a group of activities aimed at changing the PJ and their relationships associated with the OA envelope - sympathetic. Unlike the groupings associated with the parasympathetic and, as a result, at the level of the entire object aimed at fulfilling the needs in the area of PO.

## **Conclusion**

The big question at the moment is what is the structure of the element, that water molecule. If it is to be a living object, its structure must be very complex, and that is hard to imagine from today's point of view of knowledge.

An equally important question is how water is involved in production in cells. It is a kind of catalytic activity, the creation of an aqueous environment that allows chemical-physical reactions and only minimally changes, wears out. And it is a bit reminiscent of homeopathic medicines.