MANIFESTO

on

The New Paradigm in Medicine

PREAMBLE

New discoveries in physics, biology, epigenetics, neuroscience, psychology and psychosomatic make it necessary that medical science, which has so far provided fragmented picture of the living world, bound by disciplinary issues seemingly unrelated, looking for a new paradigm which could unify the various disciplines starting from what connects the physical universe to the living world, the living world to the social one, the social world to the culture.

The discoveries in the world about physics lead us to affirm that at the base of everything that exists in the Universe there is a precise information: it forms the origin that creates the particles and all systems, including the living systems we observe.

The new paradigm in science based on information implies a deep transformation in the consciousness of Man-Nature relationship with an inevitable relapse in the study of medicine and therapeutic practice, designed to renew deeply thanks to the evolution of this holistic visionary.

1. THE PRIMACY OF INFORMATION IN THE UNIVERSE AND IN THE LIVING WORLD

The new paradigm emerging in the sciences recognizes that the universe is not random; evolution is a multidimensional and quasi-universal process; and human beings, the same as all forms of life, are an integral part of it. Information is a major factor throughout the universe. The classical idea of inert matter moving mechanically in passive and empty space has been transcended. The phenomena we observe are not mechanistic aggregates of their elements but integral, intrinsically dynamic entities connected throughout space and time.

The dynamic processes of cosmic, biological, human, and social-cultural evolution are neither deterministic nor random: they exhibit a level of order and coherence that suggests the presence of an underlying logic. Understanding the nature of this logic is the perennial task of science and philosophy, as well as of religion and spirituality (Einstein remarked that achieving this understanding would be “like reading the mind of God”). Without a logic underlying the processes of the universe, space would be populated by a random concourse of particles, time would not enter into the processes, and the complex systems we recognize as living could not have appeared. Living systems can only appear in a highly coordinated universe, where the laws and constants of nature are finely tuned to the emergence of coherence and complexity.

Living systems are remarkable complex and coherent. Their parts and components are quasi-instantly and multidimensionally coordinated, enabling the systems to maintain themselves in the physically improbable state far from thermal and chemical equilibrium where the entropy generated by irreversible processes are compensated by the transport of negative entropy from the environment. The coordination and coherence of living systems suggests the presence of precise information, coding and governing every part of the systems, as well as the systems as a whole.

2. INFORMATION IN LIVING SYSTEMS: IMPLICATIONS FOR THE MEDICAL SCIENCES
A recognition of the paramount role of information in the world of life holds major implications for the medical sciences. Traditionally, the branches of medicine have been dedicated to the maintenance of health as much as to the cure of disease. Contemporary mainstream medicine is now focused above all on the cure of disease. It attempts to correct cellular and organic malfunctions mainly by biochemical means. Its remarkable achievements have prolonged human life expectancy and eliminated, or produced cures for, a plethora of diseases. However, mainstream medicine is more accomplished in curing or eliminating diseases than in ensuring that the living system persists in a condition of health and vitality. Unlike in traditional societies, in the modern world physicians are called in to cure malfunctions in their patients rather than to maintain them in a condition of wellbeing.

Enhancing health and preserving vitality call for complementing the philosophy of mainstream medicine with a more natural and holistic approach. There is a need to take into account the flows and balances that ensure health and vitality in the whole organism, rather than concentrating mainly on the causes of a malfunction in a part. The realization that information is a major factor in the functioning of the whole organism offers a basis for extending the focus of attention to the whole, without neglecting the part.

Information governs the processes of life in every part of the organism, and in the whole organism. The role of information cannot be radically segmented in the living system: the information that governs the whole cannot be reduced to the information that governs the part. A disease surfacing as a cellular or organ malfunction in a part implies a flaw in the information that regulates processes in the whole. However, mainstream medicine attempts to rebalance vital processes in the part by imparting corrective information to that part. It conveys corrective information by the administration of molecular compounds primarily of synthetic origin. This offers a successful cure to many diseases, but in itself fails to ensure the sustained vitality of the whole.

Limitations inherent in the reductive approach of mainstream medicine can be overcome. This requires first, that we pay due attention to the curative and health-preserving potentials of natural substances. These substances are produced in and by the organism or in its life-supporting environment, as the result of long chains of trial and error. They are likely to contain or complement the information needed to maintain the organism in a condition of health and vitality.

Another way to overcome the reductive limitations of mainstream medicine is by observing, measuring, and analyzing the wider interactions that maintain order and coherence in the organism. There are flows of energy as well as of information that embrace the entire organism and are essential to its survival and development. Traditional medicine has concentrated on these flows and processes and has developed a wide range of practices to overcome blockages and malfunctions in them. These practices and remedies are mostly dismissed if not actually ignored by mainstream medicine. Yet many of them can be tested and rendered more precise and beneficial by the use of instruments that measure energy and information flows in the whole organism, as well as in a given part.

A further way to overcome the inherent reductionism of mainstream medicine is to extend attention to the interaction of mind and body. The reality of body-mind interaction is now rediscovered in the neurosciences: there is no radical separation between psyche and physis in the living system. The rediscovery of the health-restoring and maintaining potentials of body-mind interaction is a major achievement of the neurosciences. The results need to form an integral part of the enlarged scope of modern medicine, correcting for its currently
excessive concentration on the parts of the body assessed as aggregates of molecular elements. The mind-body system is in fact an inseparable unit able to perceive and give a sense to the information and interact in an intelligent way with them. This ability to give sense to the information represents what we call consciousness. The consciousness is a bearer of deep values and rights of the living being which are essential to give back "a soul to the science," and to humanize the medicine in particular. The lack of this recognition is the beginning of all kinds of abuses and manipulations of living beings, manipulations that can impair the balances of the ecosystems.

Attention to the beneficial effects of natural substances, and extending the scope of attention to the entire psycho-physical organism, are consistent with the aims and mission of the medical sciences. They are not alternatives but complements to the current practices, making better and fuller use of the information that governs the organism. They are a logical development in the advance of the medical sciences. A concrete example of therapy based on information is that it can be associated to the current medical therapies is one that aims to reprogram and to return to a normal phenotype cancer cells. The most severe alteration of information and communication between cells occurs in tumors.

Yet even in these conditions, where it becomes difficult to correct informative errors concerning both the genetic code (mutations) and epigenetic (errors in turning on and off of multiple genes), it has been demonstrated (PM Biava) that it's possible to correct such errors by providing accurate information to cancer cells.

As the altered stem cells are the cancer cells, it has been proved that the correct information can reprogram the cancer cells and it's transported by molecules which are able to turn the normal stem cells to the normal behavior.

A cellular reprogramming could be also reached through the exposure of cells to electromagnetic fields of low frequency and intensity without the use of molecules, even if of natural origin (C. Ventura).

3. CONCLUSIONS:
NEW REQUIREMENTS FOR THE DEVELOPMENT OF THE MEDICAL SCIENCES

a) Need for a new dictionary, new terminology and new definitions of pathology.

b) The need for a new model of the human person based on information and awareness that interprets the person as a complex information system to explain that it is no longer sufficient the Psychoneuroendocrineimmunology (PNEI). The complex-system thinking able to describe the new unified reality must recover the multidimensionality of the subject-object-environment relationship as systems such as self-organization of information and must dialogue with the unconscious. With this introduction, the planning based on the model PNEI is no longer sufficient to interpret the complexity of the living and should be integrated into the broader model that interprets the human being as an informed system. (PM Biava)

c) In this context, the disease will therefore be regarded as an informational imbalance. Hence the need for a new classification of diseases taking into account the dual mode of expression of psychosoma informed, which manifests information according to the semiotic and symbolic codes interwoven between them. The therapist must therefore take into account the two levels of language, semiotic and symbolic, recognize and decode them. These
decoded languages represent the assumption that allows to give back the correct information to the informed psychosoma in order to bring it back into balance.

d) Starting from this concept, it becomes necessary to create a new kind of therapist who can move from one logic to another (symbolic and semiotic), proposing a synthetic diagnostic and intervention that takes account of these two modes of communication.

e) The need for the new therapies called "informational", which are based on the assumptions previously described, could allow a complex approach to the patient in which the pharmacological and non-pharmacological operation (use of biological substances) and complementary medicines may overlap and act in a harmonious way on the individual.

f) The need for the real and effective trans-disciplinary integration which would cooperates on this basis.

g) The need for a New University which should be able to prepare for the new therapists to the reading in the dual symbolic code and the code of signs.

Adopted and Endorsed by:

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Stresa, Lago Maggiore, 2 May, 2013