

Part 5 – EMERGING SCIENTIFIC RESEARCH SUPPORTS THE “SELF-REGULATION PARADIGM

In this article we will present some developments in the field of science supporting the alternative paradigm we are advocating as a counter-measure to that of the medical-drug cartel. Our objective is primarily to introduce the scope of the ongoing “research program” in this area of practice. The significance of such a “research program” will be further addressed in Part 6 relative to the subject of the philosophy of science. We will first, however, briefly review some points presented in our prior articles.

PART 1: The “self-regulation” paradigm differs from that of conventional medicine because, in part, it starts from different philosophical assumptions and focuses on the body’s innate capacity for self-regulation rather than upon the cellular theory of disease. In addition, the self-regulation paradigm seeks to enhance, and remove interference with, the body’s functional capacity by correcting physio-regulatory dysfunction and by working with nature, rather than opposing disease and warring with nature.

PART 2: The “self-regulation” paradigm derives from the work of Claude Bernard, the leading physiologist of the 19th Century. We presented a copy of Bernard’s 1860 lecture in which Bernard outlined his concept of the “milieu interieur” and its role in health and disease. Although Bernard pointed to the significance of the circulatory system as an element of self-regulation he also stated: “The nervous system, as Blainville philosophically observed, creates a secret harmony between the different parts of the living frame, establishes a permanent connexion (sic) between them, and renders them mutually dependent upon each other.

In Part 2, we also briefly addressed the concept of the body’s regulatory system as described by the early chiropractor Terrence Bennett. Part of Bennett’s work (neurovascular reflexes) is still used by AK practitioners. The greatest advances in the understanding of the body’s innate capacity for self-regulation and health maintenance have, however, been made by the German naturopaths. We introduced the work of Alfred Pischinger relative to the “extracellular compartment”. We will briefly expand upon Pischinger’s model in this article. (See Figs. 1 and 2)

PART 3: As indicated in Part 2, the German naturopaths have performed significant research with respect to the body’s innate functional capacity and have developed several instruments to diagnose and treat problems related to the extracellular compartment. We described some of these instruments:

Diagnostics:

Biological Terrain Analysis (BTA) – Used to evaluate the chemistry of the extracellular compartment (“physio-regulatory matrix/system).

Computed Regulation Thermography (CRT) – Uses a thermocouple device similar to that used by B.J.. The instrument is used to evaluate thermal reaction within the physio-regulatory matrix.

Diagnostics/Therapeutics:

“Matrix Imaging” (EAV) – Used to measure the electronic status of the physio-regulatory matrix and to evaluate the body’s response to medicines, nutraceuticals, etc. Thus, this type of instrument is both diagnostic and therapeutic.

Therapeutics:

Matrix Regeneration Therapy (MRT) – This is a modernized, electronic application of principles similar to the “cupping” used in traditional Chinese Medicine. Generalized deposits and toxins are loosened and removed from within the physio-regulatory matrix.

Neural Therapy - Saline (with perhaps lidocaine, etc.) injections are used to remove localized interferences within the physio-regulatory matrix.

PART 4: We took a slight detour here to respond to a very important question from Dr. Decken of Georgia: What is it that defines a profession? Our unequivocal answer is, THE LAW. We went on to point out that the basis upon which the law accepts more than one healing arts profession is that the various professions utilize different paradigms; they start from different philosophical assumptions, (we will return to this issue in Part 6) utilize different pathophysiological models and have developed different treatment protocols.

We will now address some of the emerging research supporting the physio-regulatory paradigm. In addition, we suggest that all chiropractors should read the book “*Inner Wisdom, The Challenge of Contextual Healing*” by Dean Black, PhD. Dr. Black is a former professor at Parker Chiropractic College and in his book he presents a theory of environmental (the “*context*”) regulation of the intracellular function based primarily on chaos theory. We will not address this aspect of the regulation paradigm here other than to say that it is slightly different from, but compatible with, our thesis.

Anatomical Aspects

Figure 1 is a picture of Pischinger’s model of the physio-regulatory matrix system first developed in the 1940s.¹ As first conceived by Pischinger, the intracellular regulation was performed by only the extracellular components. (cf: Palmer – but, as to only the nerves.). However, as noted by the early chiropractor Terrence Bennett “...the arteriole, the capillary, the tissue space, the **cell**, the lymph capillary, which also lies in this same area, and we have a functional unit which is common to all tissue in the body.” (Emphasis added.) The addition of the cell is critical and, as we shall see in a moment, the nucleus and DNA are also included in the “functional unit”.

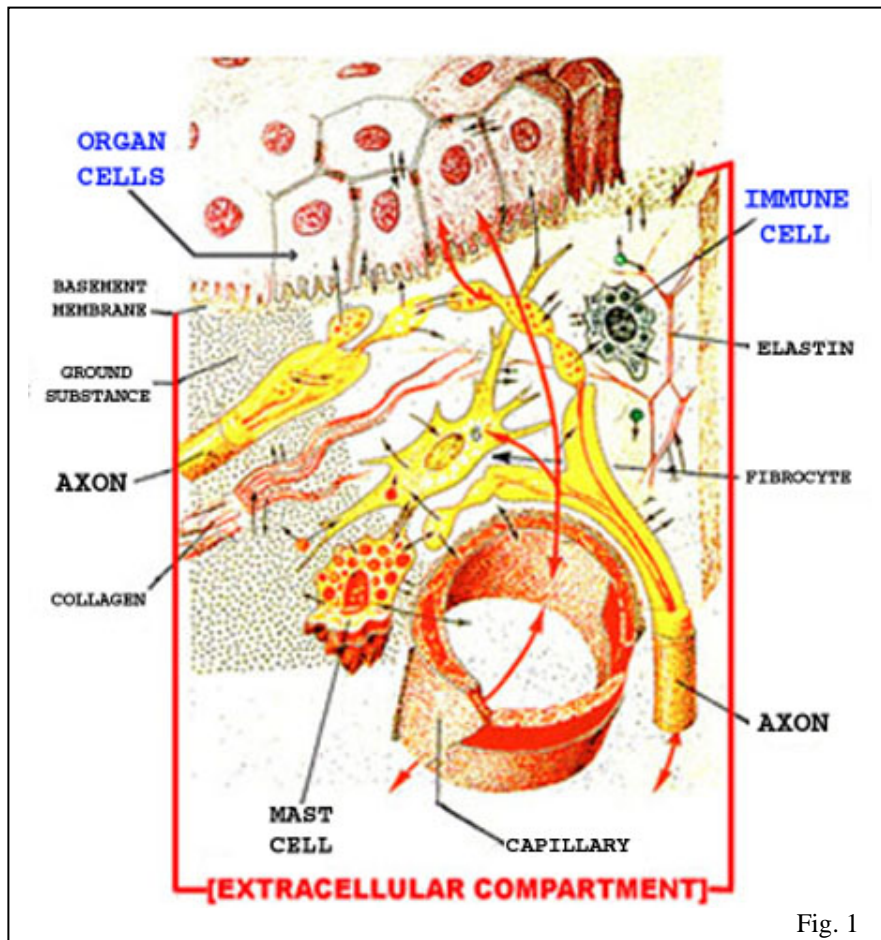
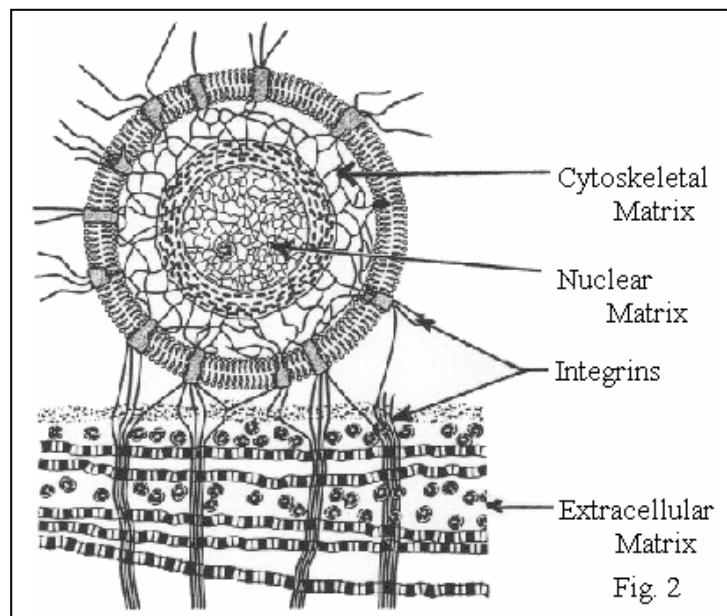


Fig. 1

The book from which Figure 1 is adapted also addresses other functional components of the extracellular compartment in addition to those shown in the picture. Space does not permit us to get into those elements or their functional activity. It serves our purpose of demonstrating the scope of the physio-regulatory research program to merely recite these additional components: glycosaminoglycans, proteoglycans, (including, dermatin sulfate, heparin sulfate, keratan sulfate), hyaluronic acid, structural glycoproteins, “network-forming” proteins, fibronectin, chondronectin and “sugars”. Of course, the “ground substance” includes perhaps the most important factor - water. (See “**Homeopathy**” below.)

The names Palmer, Cleveland and Parker are recognized by all chiropractors as being names of families famous for their contribution to the chiropractic profession. We will add another – Lief/Chaitow. Leon Chaitow, N.D., D.O. (England), the author of “*Soft-Tissue Manipulation, A Practitioner’s Guide to the Diagnosis and Treatment of Soft Tissue Dysfunction and Reflex Activity*” is a descendent of Stanley Lief who, in the early 1900s, qualified as a chiropractor and naturopath in the United States. Stanley Lief was caught in Britain at the outbreak of the First World War and he and his descendants have practiced natural medicine in England ever since.

Chaitow’s book is the best source we have found for the torso neurovascular points identified by the chiropractor Terrence Bennett referred to above and more particularly in Parts 2 and 3 of this series of articles. Leon Chaitow, through *his Journal of Bodywork and Movement Therapies*, commissioned (year 2000) James L. Oschman, PhD to write a book covering recent advances in the scientific understanding of what Oschman terms “energy medicine”. Oschman wrote from the limited perspective of the “bodyworker”.² This perspective is a valuable addition to the model of “regulatory” medicine but the book simply ignores the work of Pischinger and the German naturopaths. Oschman does, however, add some very valuable information relative to the concept of the “matrix”.



Comparing the two dimensional picture (Fig. 2) with Figure 1 shows an additional component; integrins. This is an extremely important addition to the understanding of the body’s innate regulatory system. We will address the functional aspect of these components in the following section. (See **Tensegrity**) We will allow Oschman to express the anatomical aspects for us:

“A whole class of ‘trans-membrane’ linking molecules, or ‘integrins,’ has been discovered. Likewise, it is now recognized that the cytoplasmic matrix also links to the nuclear envelope, nuclear matrix and genes.” (Oschman, p. 45-46)

The chiropractor Terrence Bennett had it right. The cell, and now we add the nucleus and genes, are part of the “functional unit”. The cells and the genes have been, and are, the primary focus of allopathic medicine. We suggest that the work already done by the German naturopaths, and the diagnostic instruments and therapeutic protocols developed by them, needs further research and, perhaps more importantly, the clinical applications need to be expanded. **Who will do it? Who will “own” it?** So far, the medical-drug cartel has resisted efforts to expand the “self-regulation” concept and chiropractors have, in general, failed to recognize the significance of the emerging evidence supportive of the Palmerian paradigm. We will now address some of the physiological aspects of these regulatory factors.

Regulatory Factors

An important contributor to the concept of the extracellular regulation of intracellular activity was Nobel Laureate (1937) Szent-Gyorgyi; the discoverer of vitamin C. In addressing the subject of cancer, Gyorgyi once stated: “Cancer research has greatly been retarded by asking why cancer grows, instead of asking what keeps a normal cell from growing (becoming abnormal).... Cancer was looked upon as a hostile intruder which had to be eliminated. It might be looked upon also as a cell in trouble, which needs help to return to normal.” (As quoted in Dean Black’s “*Contextual Medicine*”, p. 90; See also, Oschman, pp. 59-61.)

Gyorgyi beautifully expresses the key concept of the “internal environment - self-regulation” paradigm; we need to “adjust” the parameters of the regulatory system in order to help cells “in trouble”; or to otherwise help cells to maintain their maximum functional capacity.

We will not repeat the information about the diagnostics and therapeutics discussed in Part 3 other than to simply reiterate that the pH, oxidative stress (electron concentration and movement) and mineral concentration within the extracellular compartment are very important factors that need to be addressed. In addition, we repeat that the information in Part 3 dealing with the clinical instrumentation developed by the German naturopaths is vital to **adjusting the parameters of the body’s innate physio-regulatory system in order to maintain maximum functional capacity and/or to correct dysfunction.**

We do not presently intend to address the more obvious factors of the regulatory system such as the nerves, the immune cells themselves, hormones, enzymes and general nutrition. We will briefly address a sampling of three key areas of basic scientific research relating to “**adjusting**” the parameters of the body’s innate physio-regulatory system. Again, for our present purpose it is more important to demonstrate the scope of the ongoing research and its relationship to the basic Palmerian principle of adjusting the body’s innate regulatory mechanism(s) than it is to explicate this work. We will discuss the significance of such a research program when we address the philosophy of science in Part 6.

Tensegrity:

The “integrins” shown in figure 2 create an integrated microskeletal structure extending from the extracellular compartment through the intracellular components and into the genes themselves. Picture an old fashioned tent with interconnected tent poles. If you “vibrate” one leg of the tent pole structure you will automatically cause all other portions of the structure to vibrate. So too with this integrated microskeletal (tensegrity) matrix. It has been found that vibrations of the integrated matrix can cause biochemical changes within the cells. (Oschman, pp. 62-67) Oschman contends that this explains, in part, some of the results of “bodywork”. We add that other treatments (such as those of the German naturopaths) directed towards the physio-regulatory system have a similar, and perhaps more dramatic, effect.

It is also important to recognize that vibrations within the “matrix” also transfer “information” as stated by Pienta & Coffey in a 1991 article from the Journal Medical Hypotheses (34:88-95) entitled “*Cellular Harmonic Information Transfer Through a Tensegrity-Matrix System*”. Oschman quotes this article, in part, as follows:

“A tensegrity tissue matrix system allows for specific transfer of information through the cell (and throughout the organism) by direct transmission of vibrational chemomechanical energy through harmonic wave motion.” (Parenthetical expressions added by Oschman.)

Further development of these ideas awaits additional research. **Who will do it? Who will “own” it?**

Homeopathy:

We are not going to address classical homeopathy here. Rather, our focus is on what is termed clinical or resonance homeopathy. Again, we are involved with vibratory phenomena. Part of the resistance to homeopathy has been due to the fact that homeopathic remedies are prepared by a dilution process (plus succussion or shaking) in which sometimes none of the original chemical substance being diluted is left in the solution. A strict materialist will therefore summarily conclude that such remedies cannot, by definition, work. The empirical evidence is that they do work. How?

At least part of the explanation appears to relate to the function of water molecules within the matrices. It is beginning to be recognized that information can, among other things, be “stored” in the angles of the bonds within individual water molecules and the frequency at which such bonds vibrate. Also, groups of water molecules can bind together forming a loose matrix subject to quantum effects. Bellavite and Signorini describe these processes just described as “superradiance” and/or as the process of the formation of “hollow hydration shells” (or “clathrates”).³

In addition, the stored information can be transmitted to other molecules by a process of entrainment similar to that taking place when the pendulums of several clocks in the same room ultimately start swinging in unison; or to a group of woman working together ending up with synchronized menstrual periods. The resonance phenomena of the water molecules initially takes place within the extracellular compartment and can then be transmitted into the cells to help regulate their function. Figure 3 depicts oscillating water molecules forming a vibrating network. The vibration imprint of the homeopathic remedies is thought to interact with, and change, the vibrational pattern of such water networks thereby changing the informational message sent into the cells themselves.

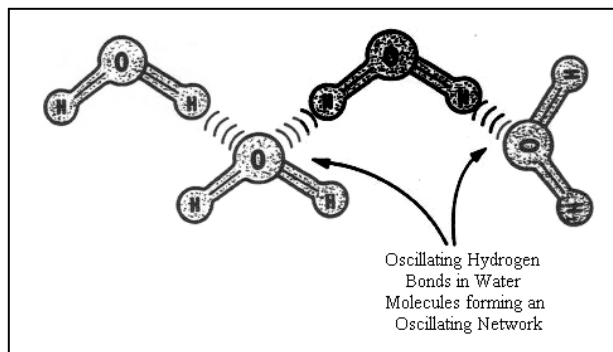


Fig. 3 – Resonance Phenomena in Water Molecules⁴

Oschman suggests the water molecules vibrating in the extracellular compartment transmit their signal directly into the cell by the entrainment type process previously described. We suggest that it may also be possible that the vibratory imprint of the water may function through the process of altering

the vibratory status of the tensegrity system, including the cell, the nuclei and the genes. **Who will do the research on this potential aspect of the physio-regulatory system? Who will “own” it?**

Acupuncture:

The extracellular compartment is a single compartment that permeates every part of the body, surrounds all cells (or groups of cells) and also extends to just below, and parallel to, the outer surface of the body. The German naturopaths working the concept of this “regulatory matrix”, have recently (1987) **“discovered that neurovascular bundles penetrate the superficial fascia (and up to just below the surface of the skin) ... and take a cylinder of extracellular matrix with them.”** (See fn. 1, p. 113. These cylinders are named after their discover; Heine Cylinders.) These “Heine cylinders” have been described as a “window” to the physio-regulatory system allowing physicians to assess the status of, and treat the physio-regulatory. Some of the equipment discussed in Part 3 of this series is used for that exact purpose. These “windows to the regulatory matrix” have also been found to coincide with many of the acupuncture points, but they are not limited to the acupuncture points.

(You may check the Dynamic Chiropractor for Part 3 or go to www.promedlaw → medical articles → “Co-Counsel in Dissent 3”. You may also wish to check a series of 3 articles written by Prescott comparing chiropractic and acupuncture which also appeared the Dynamic Chiropractor. These article may also be found on the promedlaw web site by scrolling down the “medical articles” page.)

Who Will “Own” It?

What is the “It” to which we are referring? The “Internal Environment - Self-Regulation” (or simply physio-regulatory) paradigm. We assert this paradigm was the primary founding principle of the Palmerian school of chiropractic thought. (We will expand on this point in Part 6 dealing with “philosophy”.) We would add the “neurovascular points” of Terrence Bennett, DC to the Palmerian school of thought. What happened to this important work by Bennett? Neither one of us were taught anything about Bennett’s work in chiropractic school. We did get some exposure to his ideas from AK. Unfortunately, AK does not utilize the full panoply of Bennett’s thought. We had to learn about Bennett’s torso “neurovascular points” from Leon Chaitow’s book referred to above. Chaitow is the English naturopath.

What happened to the early chiropractor’s work such as that of Bennett and naturopathic concepts of John Howard’s, the founder of what was N.C.C.? Their work has simply been abandoned by both the so-called “straight” and “mixer” schools. This abandonment was triggered, in part, by an edict issued by what is now the C.C.E. in the early 1950s. The word went out that all chiropractic colleges must drop all natural healing courses from their curriculum in order to be accredited. The irony is that there was a general increase in the hours required for a chiropractic license in most states during this same era. The expanded curriculum was “filled” with allopathic diagnosis and therapeutics while alternative therapies were substantially ignored. The “mixer” schools focused on bio-mechanics and diagnosis while paying only lip service to the concepts of natural healing and the physio-regulatory paradigm. The “straight” schools stayed with the 19th Century idea first expressed by Bernard that the nerves create a secret harmony within the body. As a result, the developments of the science of physio-regulation was left to others.

The German naturopaths have filled that gap. In the last two decade new players have entered the arena. Much of their work is reviewed in the book *“Bioelectrodynamics and Biocommunication”*.⁵ This book contains articles by 20 authors only two of whom are from the Unites States. Seven of the authors are Asian. We suggest Asian input is due to, in part, their heritage within the acupuncture tradition and to their generally more “holistic” perspective. Those who define and refine the paradigm and its clinical applications will ultimately own it. We suggest that acupuncturists and naturopaths will

dominate this paradigm and that chiropractors will, unless some or all of them choose otherwise, be left in the cold.

It is a time for choices to be made that will affect the practice rights of all chiropractors for the rest of the twenty-first century. Those choices will also directly affect the rights of patients. The patients' rights are primary. It is time for us (the authors) to more fully state the choices we have made. We will outline some aspects of our position here and expand upon them in the next article dealing with philosophy. Of course, we support the alternative paradigm outlined in Part 1 of this series of articles.

A Time of Choosing

WE ARE FOR:

1. The non-monopolistic claim that:
 - a) The Universe/life is the product of Intelligent design. (See Part 6.)
 - b) The Universe/life is part of an unfolding process. (See Part 6.)
2. The proposition that “the power that makes the body, heals the body.” (See Part 6.)
3. The concept of the body's innate capacity for self-regulation and healing.
4. The concept of “adjusting” (removing interference with) the body's self-regulation (functional) capacity.
5. The concepts of prevention and early intervention.
6. The value of clinical experience/studies. (See Part 6.)

WE ARE AGAINST:

1. Allopathic monopolization of the market place.
2. Any monopolistic claim that the Darwinian evolution fully explains the origin and development of the Universe/life.
3. Any claim that all worthwhile knowledge of the body's healing capacity must come from laboratory and/or double-blind studies.
4. Any chiropractor, or group/association of chiropractors, interfering with the practice rights of other chiropractors as those rights are, or should be, defined by law.
5. Any claim that the nervous system is the sole (non-immune) regulator of the body's health status.
6. The proposition that chiropractors should be limited to “bio-mechanical” practice.
7. The claim that “subluxation” is (or should be) the core chiropractic concept. (See Part 6.)

We are presenting our ideas to the chiropractic community first. But, as stated above, the patients' rights are primary and we intend to present the position stated in this series of article to the courts, legislatures and people of this country. The people have been looking for natural health care from well-trained practitioners throughout the 20th Century, and most especially since the 1980s. They have looked to chiropractors to provide that care and many chiropractors and chiropractic organizations have simply, in effect, stated: not from us, and not from any other chiropractors as long as we can stop them. It is time that attitude was relegated to the dustbin of history. Our indicated choices raise serious philosophical questions and we will address those issues in Part 6.

¹ Adapted from H. Heine, Ed., *Matrix and Matrix Regulation, Basis for a Holistic Theory in Medicine*, Haug Intl., 1991 (Eng. Ed.) p. 21.

² J.L. Oschman, *Energy Medicine, The Scientific Basis*, Churchill Livingstone, 2000. This book contains an interesting forward by the well known neuro-scientist, Candace Pert. Fig. 2 is adapted from p. 66 of this book.

³ P. Bellavite, MD and A. Signorini, MD, *Homeopathy, A frontier in Medical Science*, North Atlantic Books, 1995

⁴ Adapted from Bellavite and Signorini, p. 246. See also, M-W Ho, *The Rainbow and the Worm, The Physics of Organisms*, World Scientific (singapore), 1993, pp. 81-86.

⁵ M-W Ho, F-A Popp, and U. Warnke, *Bioelectrodynamics and Biocommunication*, World Scientific (Singapore), 1994.