

# New Organ System Discovery

by Darlene Jorgens



Anyone who has studied basic human anatomy knows that blood travels through the circulatory system, lymphatic fluid moves throughout the lymphatic system and electro-chemical messages are sent back-and-forth via the nervous system. Science has identified and proven these so they are known facts.

Conversely, Eastern medicine, also called Traditional Chinese Medicine (TCM), is based upon an invisible energy movement in the body that flows along energetic pathways called meridians. In TCM, meridians are most commonly associated with acupuncture or acupressure. The name given to this energy that travels along these meridians is known as Qi (pronounced chee').

Science is increasing in its ability to identify how the body transfers this energy and just how critically important it is to vibrant health. Additionally, there are quite a number of methods used to measure this energy. First, let's take a look at some of the amazing recent discoveries within the human body.

## **INCREASING CLARITY...**

It should come as no surprise that science is always gaining new insights in the identification of parts of the body never before proven to exist. While there is much that is yet unknown about the workings of the human body, new discoveries are being made on a regular basis.

For instance, in 2010, two doctors inadvertently discovered the interstitium which is the actual organ that carries interstitial fluid. Previously it was believed that interstitial fluid was only an extracellular fluid, but now it is known that this fluid is contained within connected fluid-filled sacks. While much is still unknown, the interstitium seems to be a holding place for fluids that are going to the lymphatic

system. Additionally, the interstitium may also act as a shock-absorber for organs. If you've ever been jarred in an accident, having internal shock-absorbers would become of tantamount importance.

In 2012, the glymphatic system was first described. No, that was not a misspelling. The glymphatic system is the part of the lymphatic system that runs parallel to arteries and works to clear waste from the central nervous system and the brain mostly during sleep. It also importantly drives cerebrospinal fluid into the brain. It makes sense that the brain has a system in place to drain wastes and other toxins and holistic health professionals have been operating upon this principle that science has now proven to exist.

In 2013, the Dua's Layer of the eye's cornea was discovered. Primarily made up of collagen, this layer is very tough although it is thinner than a human hair at only about 15 microns thick. Knowledge of the Dua is beneficial to those on the receiving end of cataract surgery.

Another new organ called the mesentery was discovered in 2016. The mesentery is part of the gastrointestinal system. It was previously thought to be many fragmented layers but has been observed to be one continuous organ. In actuality it is a double fold of the peritoneum which lines the abdominal cavity providing support and holding the intestines in place by connecting them to the abdomen. Calvin Coffey, a researcher from the University Hospital Limerick in Ireland and discoverer of the mesentery stated "In the paper which has been peer reviewed and assessed, we are now saying we have an organ in the body which hasn't been acknowledged as such to date,"<sup>1</sup>



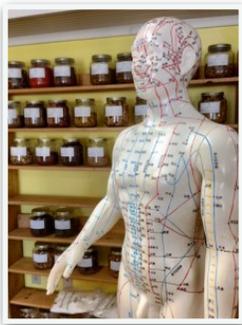
### **NEW FRONTIERS IN ANATOMY & ENERGETICS...**

Enter the Primo Vascular System (PVS). The PVS is considered an anatomical system which is dispersed throughout tissues, organs and cavities in the body. The PVS covers the entire body and functions as a regulator and coordinator of biological processes that are the foundation of life. The "PVS has never been discovered in human dissections because it hides within the fascia, a collagen structure that surrounds muscles, tendons, organs and other tissues of the body."<sup>2</sup> The primo-vascular system also appears to be able to regenerate cells and tissues. More about that later.

In the 1960s, a Korean scientist named Bong-han Kim published a book in Korean, Chinese, English and Russian that contained the results of his discovery of the primo vascular system and its interrelation to acupuncture points and energetic meridians. However, in 1966, he and most of his books disappeared and his research institute was closed. His revolutionary work stopped and was all but forgotten until recently.

In 2016, an article was published detailing professor Vitaly Bodyanny's use of a microscopy system called CytoViva which he invented, patented, and used to confirm the actual substance of the primo vascular system. Through microscopy, professor Bodyanny "revealed for the first time the microstructure of the miniscule, translucent system of vessels, subvessels and stem cell-filled nodes—together making up the primo-vascular system—running throughout a rat's body, appearing in and on blood vessels, organ tissue and the lymphatic system."<sup>3</sup>

"Even with our microscope, you cannot see the vessels until they are touched because they are transparent, but they turn a yellowish color when touched. The width of the node is only 1 mm, and the fine structure of the node can only be seen using high-resolution light microscopy," said Vodyanoy, Ph.D., professor of anatomy and physiology in the College of Veterinary Medicine at Auburn University. "The rat is an excellent model for research before studies are conducted with humans."<sup>4</sup>



Korean scientists have also been able to view meridians by using a Trypan blue BHS-specific dye along with technologies such as detailed CT scans. These clearly reveal acupuncture point anatomical structures. Other types of equipment that have been used to 'see' this newly discovered organ system are infrared imaging, magnetic resonance imaging (MRIs), ultrasound and LCD thermal photography.

### **PVS ANATOMY...**

Prime vessels (PVs) have been found in brain ventricles, blood vessels, lymph vessels, thoracic ducts/tissues, abdominal subcutaneous tissue, adipose tissue, in the placenta and umbilical cord, and in cancerous tumors. "The structure was filled with various immune cells including mast cells and WBCs [white blood cells]."<sup>5</sup> "... one of the most important PVS functions appears to be its role in the regeneration via a small (~1 μm) subcellular body called 'sanal.' According to [Bong-han] Kim, a cell generates multiple sanals and the sanals arriving at the primo nodes (PNs) via

primo vessels (PV) eventually produce new cells, by way of the 'Sanal-Cell Cycle.' Sanals express stem cell biomarkers[\*]. Appropriately differentiated sanals have been shown to perform non-marrow hematopoiesis and repair damaged tissues. However, many questions on sanals still remain..."6

*\*A biomarker is simply a cellular, biochemical or molecular alteration that can be measured. These measurements are frequently used to determine the pathogenicity of disease but can also be used to determine healing potential.*

Professor Vitaly "Vodyanoy is collaborating with the Lake Erie College of Osteopathic Medicine, or LECOM, in Pennsylvania to test his hypothesis that the nodes, when activated by acupuncture, osteopathic manipulation, pressure or laser, release stem cells that flow to organs where they replace injured cells and become organ cells."4

"A liquid, called "the primo fluid", circulates in the PVS. Its flow is slower than blood flow and lymphatic flow. The primo fluid flows in one direction, attending blood flow. The liquid flow depends on the heart beat and on the pressures of the blood and the lymph."7

Primo Vessels have mechanisms to circulate the primo fluid actively. All nuclei of the tissue cells are connected to fine terminal subvessels, and these subvessels are connected to the primo vessels in a body's organs. ...All the PNs [primo nodes] in an organ are connected to all meridians. The meridian structures start and end at the PNs for the organs."7



### **ELECTROMAGNETIC ENERGY PATHWAYS...**

A May 2018 article entitled *A New Definition of an Acupuncture Meridian* published by Fletcher Kovich asserts that meridians do not have an actual anatomical structure of their own but they ride on the anatomy of the PVS.

"The meridians themselves do not have a dedicated anatomical structure; instead they are merely tracts of tissue whose normal function is impeded when the related abdominal organ is stressed. It is hypothesized that the organ information is communicated in electrical waves that may travel through the connective tissue sheaths of the superficial primo vessels. Hence, the primo vessels serve as an inadvertent transport for this information, but the organ information is independent of the physiological purpose of the primo vascular system, as are the resultant meridians."8

Chinese theory of acupuncture teaches that each meridian is a subtle electromagnetic field in the body and that each acupuncture point a magnetic unit. Dr. Jerry Tennant MD, MD(H), PScD, ophthalmologist and founder of The Tennant Institute further elaborates upon this concept. He teaches that acupuncture meridians flow along a series of muscles that can be likened to rechargeable batteries. The flow of electromagnetic energy passing along these muscle-battery circuits provides energy to the muscles which in turn form a power supply for the organs on that circuit to operate and regenerate by producing new healthy cells.

Dr. Tennant further theorizes, when voltage runs low at the cellular level, chronic illness ensues due to the body's inability to make new, properly functioning cells. The subsequent failure of organ(s) on that same circuit will result should the root cause(s) of the inadequate voltage not be remedied. Pain is an indicator of energetic deficiencies and/or blockages along various meridians.

### **IN THE BEGGINING...**

"The development of meridians (i.e., the PVS) takes place prior to the development of other organs such as blood vessels and the nervous system. The formation of the PV [primo vascular] blast cell occurs within 7–8 hours after fertilization; the formation of the primordial PVs occurs within 10 h[ours] after fertilization; the formation of the primitive primo lumens occurs within 15 hours after fertilization; and the completion of the primo lumens occurs within 20–28 hours after fertilization. The PVS plays an important role during the development of an organism and seems to exist throughout the biological world, including in invertebrates, vertebrates, and plants. Living organisms keep themselves alive via regeneration following the sanal-cell cycle. Sanals\* (i.e., microcells) grow into cells, and cells become sanals. A sanalsome is a type of chromosome that forms when cells divide. The chromosome emerges in the metaphase of cell division. Hematopoietic [blood cell forming] organs such as bone marrow, spleen, and lymphatic nodes have well-developed PVs, the structures and functions of which are similar to PNs [primo nodes]."9

*\*Sanals are DNA microgranules (not fragments) as they contain all of the DNA information, not just a part. They appear to be able to grow in concentric circular patterns and become cell-like structures. They grow very quickly and steadily, especially in the beginning (think of the early fertilization and growth).<sup>10</sup> They appear to be unique to the primo vascular system and at this time there is much less information available about them than the PVS.*

The energy flow of the meridians can be measured without regard to whether this energy flows through or upon the primo vessels and will gain clarification with further exploration. What remains is the intelligent design that empowers the human body energetically from the moment of conception and throughout life. Primo vessels (PVs) “have bioelectrical activity, excitatory conductivity, and mechanical motility. The electrical activity changes in relation to stimuli to the PVs.”<sup>7</sup> The energetic pathways of meridians can be measured by finely calibrated voltage meters that are not unlike those used by electricians.

One of the best methods of testing energy flow for the health professional is electrodermal screening (EDS/EDT). EDS is a form of Acupuncture point testing that utilizes Chinese meridian theory to detect electrical changes on the acupuncture points of the hands. Additionally, a proper form of manual muscle testing (kinesiology) techniques may identify blocks in the electromagnetic energy field of a person through testing the autonomic nervous system (ANS). The ANS is connected to the meridians at the autonomic ganglia.



Students of Genesis School of Natural Health can learn muscle testing which works upon the autonomic nervous system. In addition, both students and graduates have a unique opportunity to purchase a professional-grade EDS machine (Avatar) for use in their business at a discount.

There is reason for celebration of the amazing scientific discoveries such as the Primo Vascular System and the pathways it creates for life-giving energy to flow throughout the body. Discoveries such as this confirm that the ancient paths can be the best choice for ones healing journey. While our forefathers did not see the structure, they understood well, the function and the pathways of energetic medicine – something modern medicine is only now beginning to explore.