



BRMI
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Perspectives of Energetic Anatomy and Physiology

James Odell, ND, OMD, L.Ac.

**LIFE =
STRUCTURE + ENERGY + INFORMATION**

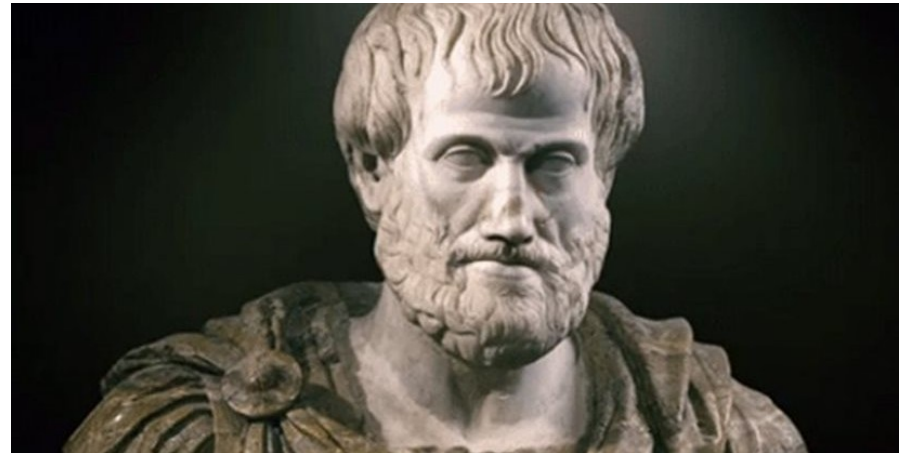


Since Antiquity -Two Opposing Views

Democritus, who coined the word *atom*, maintained that everything, including organisms, is reducible to its constituents.



Aristotle held that life processes are autonomous and organisms are integral wholes.



These 2 viewpoints remain today, with the biochemical view of life represented by molecular reductionism and the holistic view of *integral biophysics and systems biology* that embraces a **biofield** concept of life.

Integral Biophysics

A primary shortcoming of molecular biology is that the “holistic” character of the physical world now recognized in quantum theory is either not acknowledged or rejected as irrelevant.

Bischof M. Introduction to integrative biophysics. In: Popp FA, Belousov L, editors. , editors. Integrative biophysics: biophotonics. Dordrecht: Kluwer Academic; 2003:1–115.

Primas H. Chemistry, quantum mechanics, and reductionism. Lecture notes in chemistry. Vol. 24 Berlin: Springer; 1981.

The world view of *integral biophysics* is much richer and more holistic than molecular biology.

*“Quantum mechanics has established the primacy of the unseparable whole. For this reason, the basis of the new biophysics must be the insight into the fundamental interconnectedness within the organism as well as between organisms, and that of the organism with the environment. This will be an **integral biophysics**.... The existence of a pre-physical, unobservable domain of potentiality in quantum theory, which forms the basis of the fundamental interconnectedness and wholeness of reality and from which arise the patterns of the material world, may provide a new model for understanding the holistic features of organisms, such as morphogenesis and regeneration, and thus provide a foundation for integral biophysics.”*

Scientific View of Life
Based on Integral Biophysics

- Living systems are regarded as complex, **nonlinear, dynamic, self-organizing systems** at a global or holistic level.
- Living systems are **constantly exchanging energy-with-information** at multiple levels of organization with their surroundings in order to maintain themselves.

Living systems are open systems exchanging energy, matter, and information with the environment in order to develop and maintain themselves –
(self adapt – self regulate)

The human body emits low-level light (**biophotons**), heat, and acoustical energy; has electrical and magnetic properties; and may also transduce energy that cannot be easily defined by physics and chemistry.

All of these emissions are part of the human energy field, also called the biologic field, or biofield.

BIOPHOTONS



Biophotonics is a branch of quantum biology dealing with interactions between single-photons and biological matter in order to understand the inner workings of cells and tissues in living organisms.

Biophotonic Emission

The phenomenon of how information is transmitted within living systems was and is being extensively studied by bio-physicist Fritz Albert Popp.

Popp discovered that photons provided the vehicle for which information was transmitted. Photons are light particles without mass. They transmit information within a cell and between cells. He showed that DNA of living cells stores and releases photons.

He called this “biophotonic emission”.

Fritz-Albert Popp: Books Articles

What is Life?: Scientific Approaches and Philosophical Positions

Integrative Biophysics: Biophotonic

Electromagnetic Bio-Information

Popp, F. A., Li, K., Gu. Q. (1992) Recent advances in biophoton research and its application, World scientific, 1-18.

Popp, F. A., Quao, G., Ke-Hsuen, L. (1994) Biophoton emission: experimental background and theoretical approaches, *Modern Physics Letters B*, 8 (21-22).

Popp, F. A., Chang J.J., Herzog, A., Yan, Z., Yan, Y. (2002) Evidence of non-classical (squeezed) light in biological systems. *Physics Letters A*, 293(1-2): 98-102.

Cohen, S., Popp, F.A. (1997) Biophoton emission of the human body. *Journal of Photochemistry and Photobiology B: Biology* 40(2): 187-189.

Popp used highly sensitive light-measuring equipment to monitor the light emitted by living cells. He was able to confirm that living cells emit small bursts of light. He determined that cells do not just radiate light, they also absorb light. In fact, the storage time is relative to the quality of the cell.

Therefore, a healthy cell will store light the longest, while an unhealthy cell will give off the light in a shorter time.

Popp also discovered that the dying process of a cell is identical to that of a star. Shortly before its death, it will change into a supernova, whereby its radiation increases a thousand-fold, He further discovered that a healthy cell radiates coherent light, while a diseased cell radiates chaotic light.

Now it has been shown that every cell in the body emits more than 100,000 light impulses or photons per second.

These light emissions or biophotons emitted by humans and all living things are the steering mechanism behind all biochemical reactions.

Biophoton Coherence

Biophotons play a very important role for helping all the systems of the human body to communicate and maintain balance.

One of the reasons for this is because they have strong coherent properties.

In other words, they are able to cooperate and are unified as one.

The International Institute of Biophysics

a network of research laboratories
in more than 10 countries

Minkel 2, 41472 Neuss, Germany

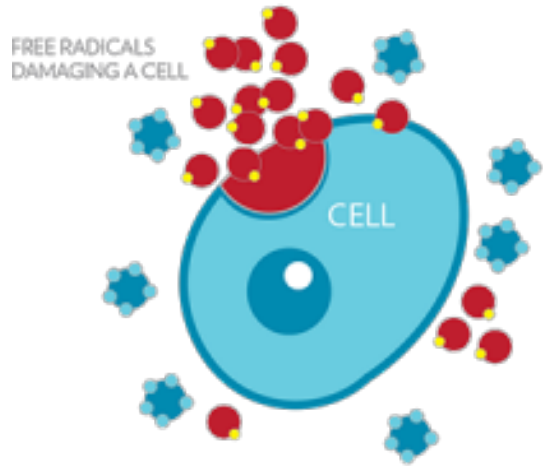
Aims: Explore the reasons of the morphological and functional stability of living systems; investigate the role of the electromagnetic fields in the functioning of living systems; expand IIB knowledge of the intercellular communication; apply IIB special capabilities to technical and scientific problems of practical interest.

Accumulated bodily toxins can disrupt the coherence of biophotons and therefore reduce their ability to effectively transfer information.

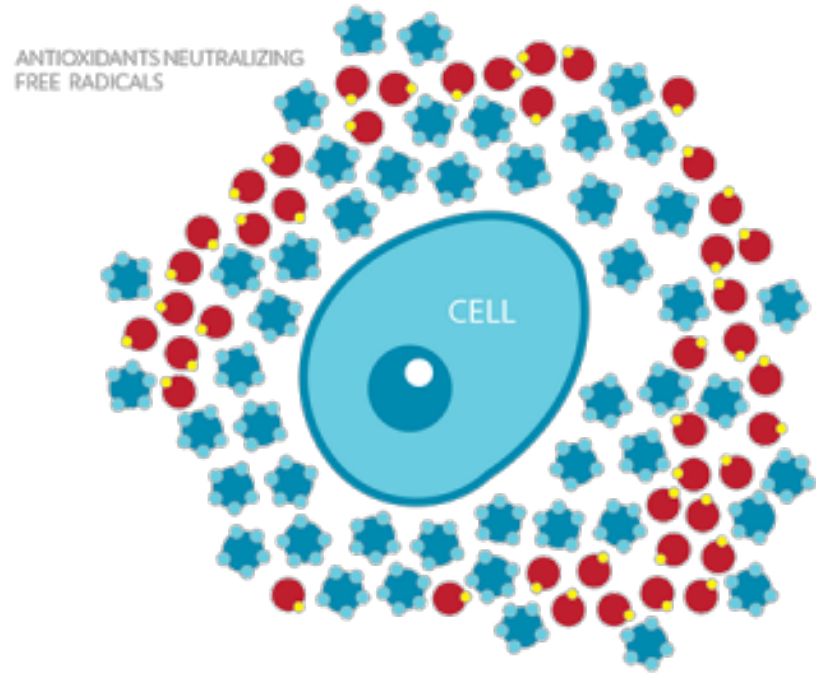
When our biophotons aren't coherent, we experience sickness due to communication problems among our cells, organs, and energy systems.

Biophoton/ultraweak photon emission reflects the pathophysiological state with respect to mitochondrial energy (ATP) production and the susceptibility to oxidative stress which is derived from the excessive production of ROS or a lack of activity for antioxidant protection.

FREE RADICAL DAMAGE



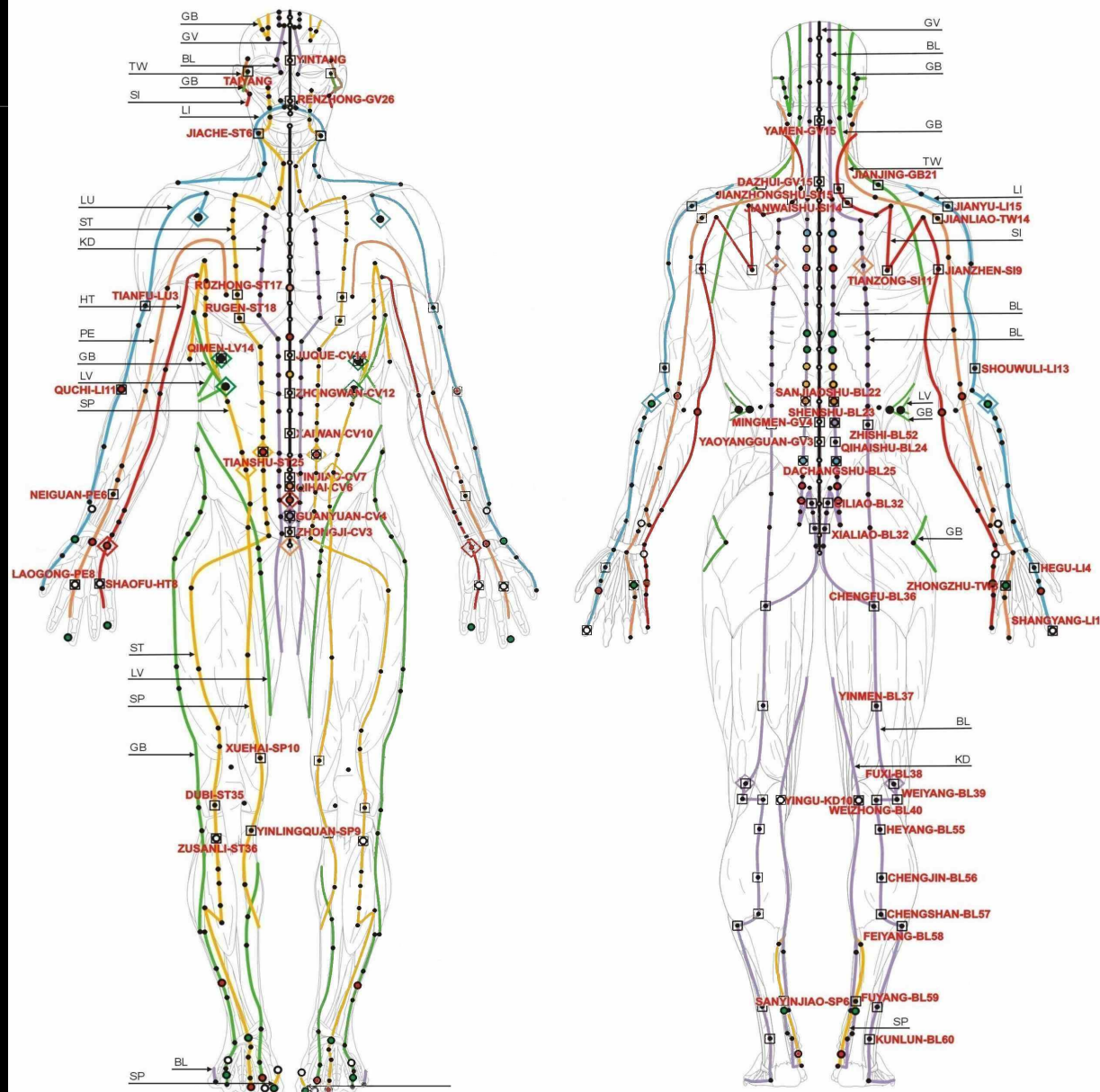
ANTIOXIDANT PROTECTION

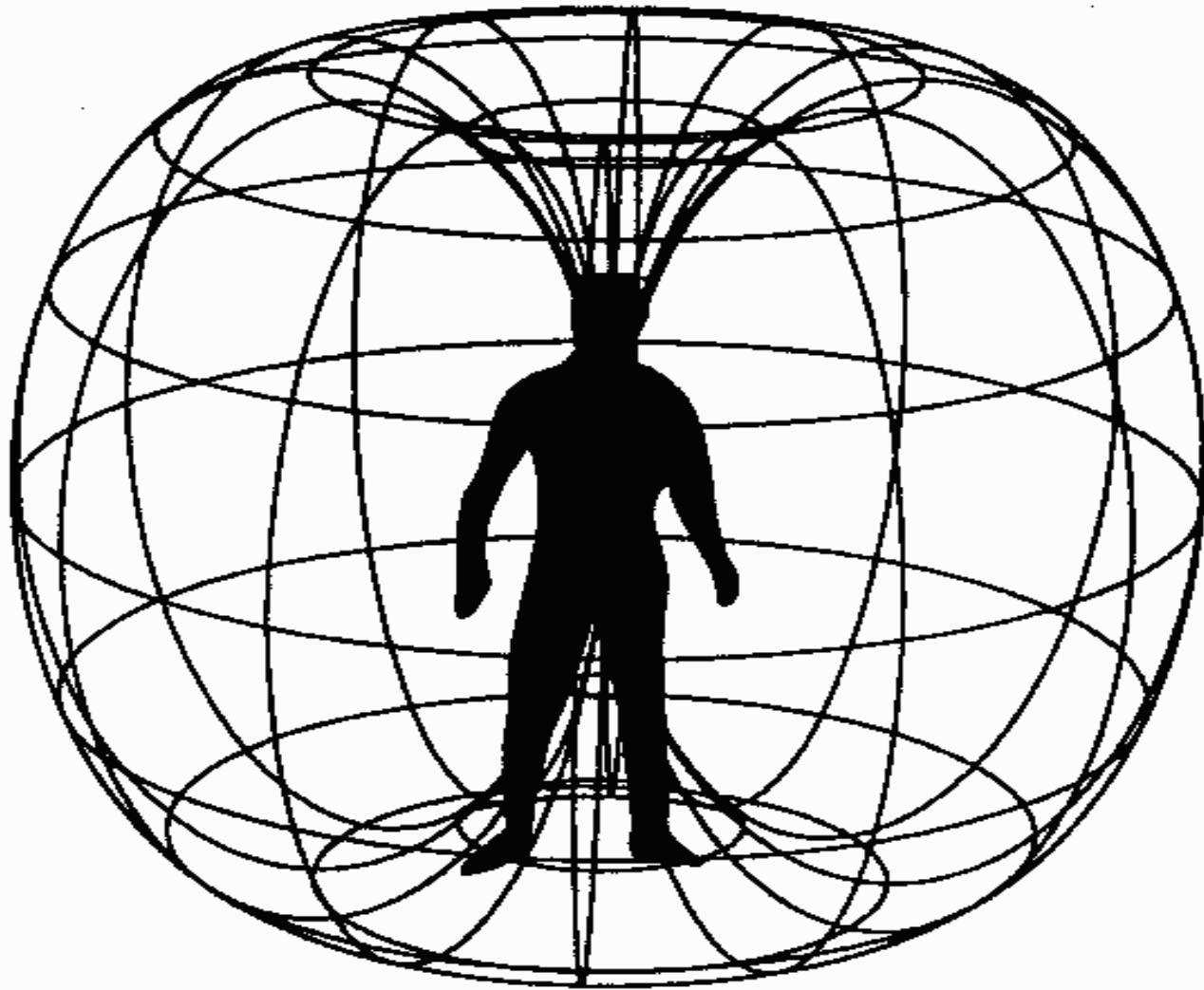


“The discovery of biophoton emission lends scientific support to acupuncture, particularly the existence of “qi” flowing through meridians which may be related to node lines of the body’s biophoton field.”

Fritz Albert Popp

Human body meridians





The Biofield

- The concept of the “biofield” evokes shades of vitalism, an old philosophical concept that goes back to the 1600s.
- Vitalism is the belief that life and organic substances differ fundamentally from the inorganic world because they contain a vital force - **a metaphysical entity intrinsic to life that renders it alive.**

The Biofield

Vitalistic principles and the human biofield concept underlie all traditional medical models:

Qi in traditional Chinese medicine

Prana in Ayurvedic medicine

Ki in Japanese Kampo medicine

The Biofield

***Biofield** describes “a field of energy and information that regulates the homeodynamic function of living organisms and plays a substantial role in health processes.”*

Jain S, Rappay L, Daubenmier J, Muehsam D, Rappay L, Chopra D. Indo-Tibetan philosophical and medical systems: perspectives on the biofield. *Global Adv Health Med.* 2015;4(suppl):16–24.

“Biofield interactions can organize spatiotemporal biological processes across hierarchical levels: from the subatomic, atomic, molecular, cellular, organismic, to the interpersonal and cosmic levels. As such, biofield interactions can influence a variety of biological pathways, including biochemical, neurological and cellular processes related to electromagnetism, correlated quantum information flow, and perhaps other means for modulating activity and information flow across hierarchical levels of biology.”

Muehsam D, Chevalier G, Barsotti T, Gurfein BT. An overview of biofield devices. Global Adv Health Med. 2015;4(suppl):42–51

Many noteworthy biologists of the 20th century have promulgated biologic field theories to explain both biologic development and the integrity of organisms.

The Biofield

- In the 1890s the concept of a bioinformational field that guided embryogenesis in organisms was introduced by Hans Driesch and in 1912 elaborated further by Alexander Gurwitsch

Driesch H. Studies on mechanisms of development [in German]. Zeitschrift fur Zoology 1891;53:160–178.

Gurwitsch AG. The Theory of the Biological Field [in Russian]. Moscow: 1944.

Beloussov L V, Opitz JM, Gilbert SF. Life of Alexander G. Gurwitsch and his relevant contribution to the theory of morphogenetic fields. Int J Dev Biol. 1997;41(6):771-7.

- Weiss, in 1939, developed a similar concept to explain development.

Weiss P. Principles of Development. New York: Holt, 1939.

Alexander Gurwitsch in 1923, while working with onions, discovered that roots could stimulate a neighboring plant's roots if the two adjacent plants were in quartz glass pots but not if they were in silicon glass pots.

The only difference being that the silicon filtered UV wavelengths of light while the quartz did not.

Gurwitsch theorized that onion roots could communicate with each other by ultraviolet light.

Wilhelm Reich's Orgone Box

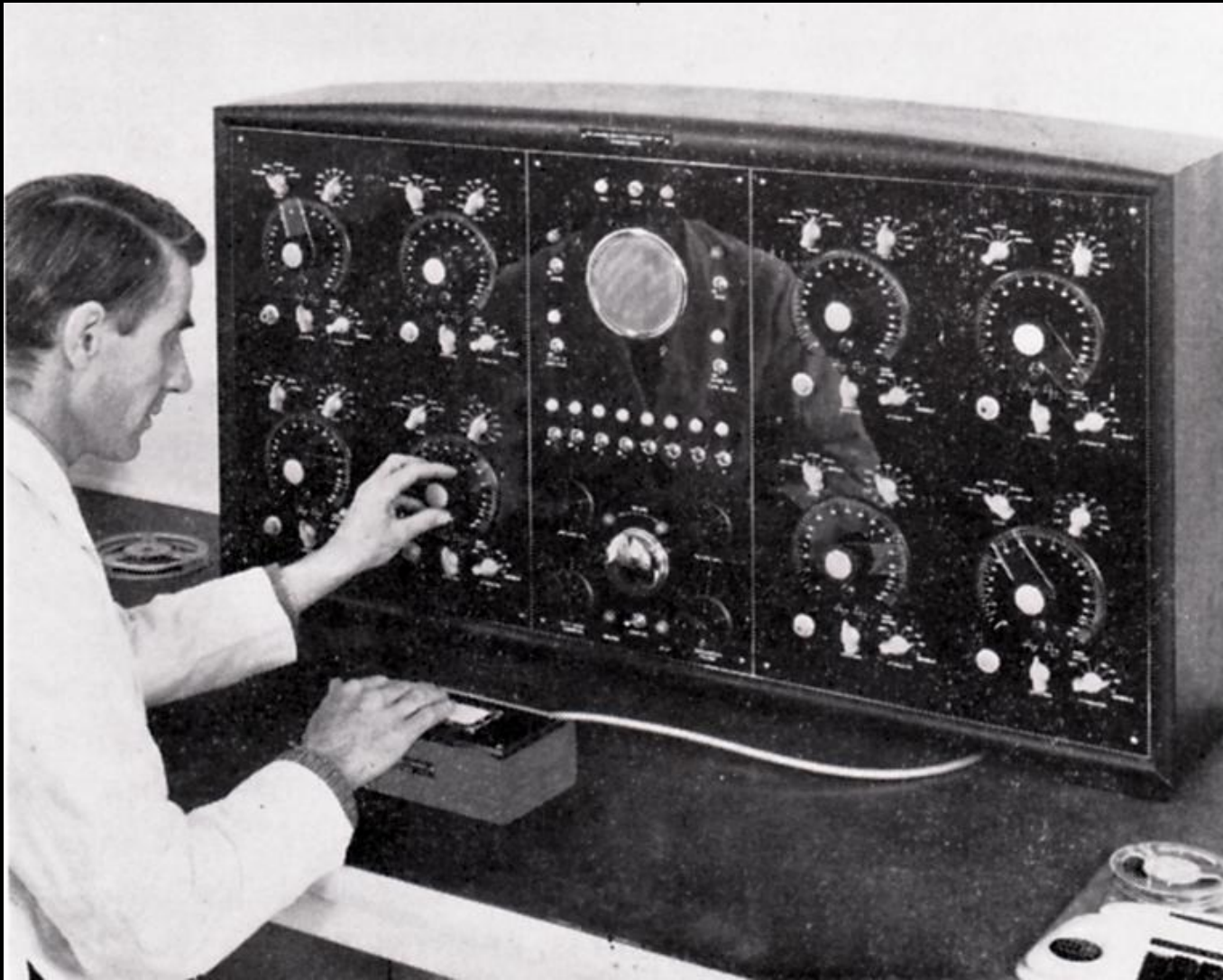


Royal Rife – Microscopy and Frequency Generator



dr. royal rife - frequency generator
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De la Warr Radionic Detector

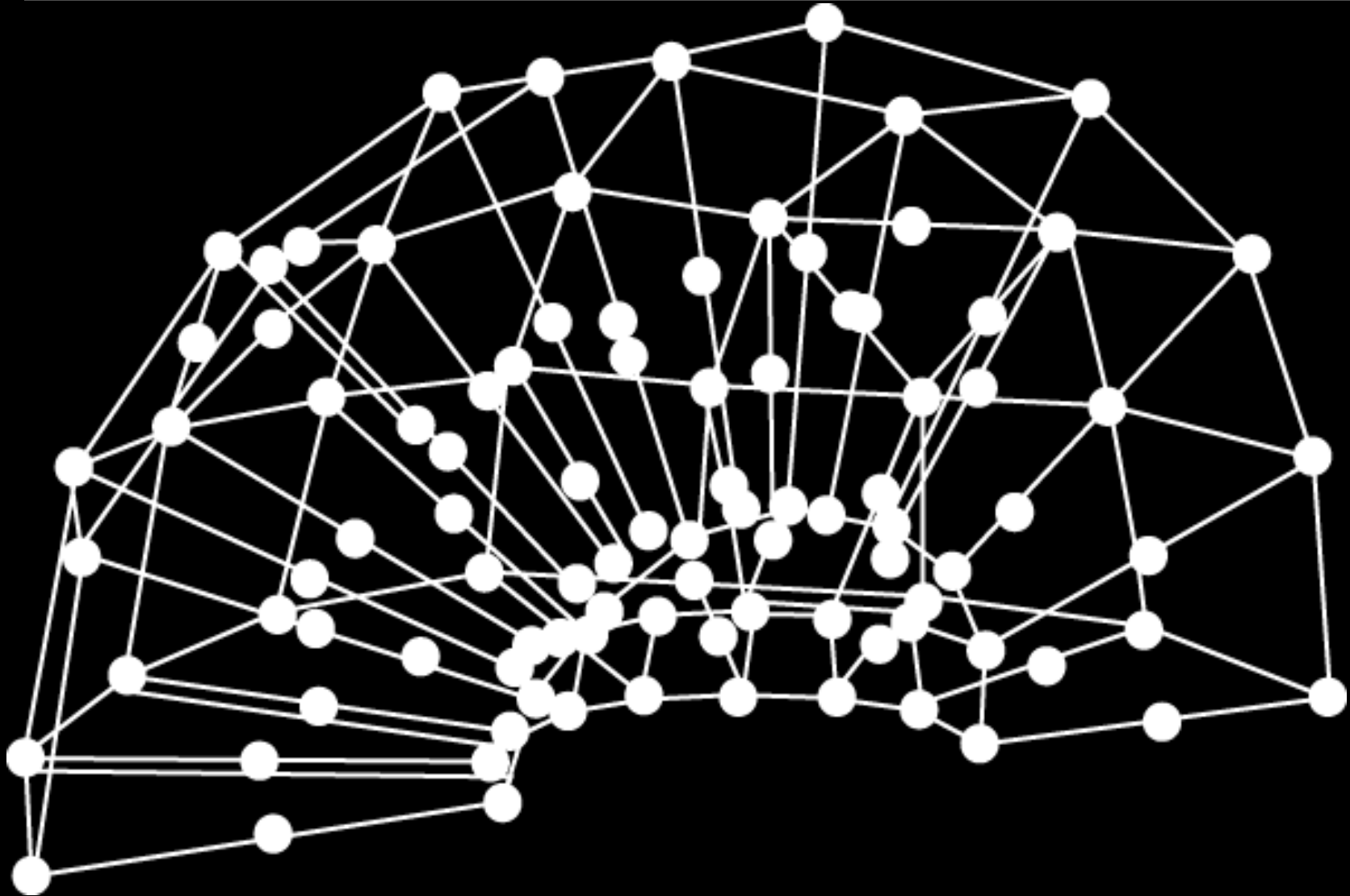


De la Warr Radionic Detector



www.museumoftechnology.org.uk

George de la Warr - Nodal Points



The Biofield

- Yale biologist Harold Saxon Burr, Ph.D., with F.S.C. Northrup proposed an electrodynamic field underlying life.

Burr HS, Northrup FSC. Evidence for the existence of an electro-dynamic field in living organisms. *Proc Nat Acad Sci* 1939;25:284–288

Burr HS. *Blueprint for Immortality: The Electric Patterns of Life*. Essex, UK: C. W. Daniel Company, 1972

- A history of biologic field concepts in 20th century science was published in 1998 by Bischof.

Bischof M. The history of bioelectromagnetism. In: Ho MW, Popp FA, Warnke U, eds. *Bioelectrodynamics and Biocommunication*. Singapore: World Scientific Publishing, 1994, pp. 1–30.

Bischof M. The history of biological holism and field theories in the 20th century. *MISAHA Newsletter* 1998;22–23:7–11.

The Biofield

Although such biologic field concepts were part of the mainstream for the first half of the twentieth century, as molecular biology grew more dominant from 1950 onward and developed into big business, a bio-field perspective of life became taboo in academic science

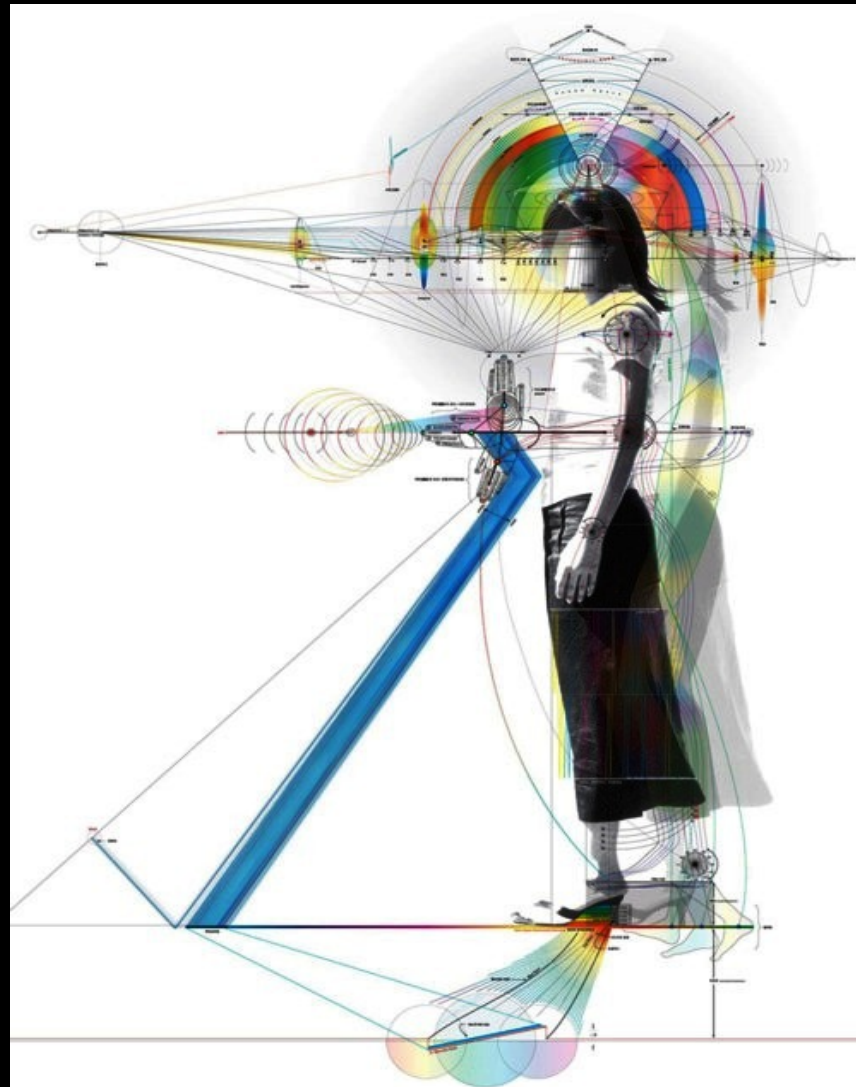
– at least until the early 1990s.

In 1994, the term *biofield* was coined by a panel on manual medicine modalities convened at the National Institutes of Health (NIH) to discuss complementary and alternative medicine (CAM).

Rubik B, Pavek R, Ward R, et al. Manual healing methods. *Alternative medicine: expanding medical horizons*. Washington, DC: US Government Printing Office; 1994:45–65.

The NIH committee defined biofield as
*“a massless field, not necessarily
electromagnetic, that surrounds and permeates
living bodies and affects the body.”*

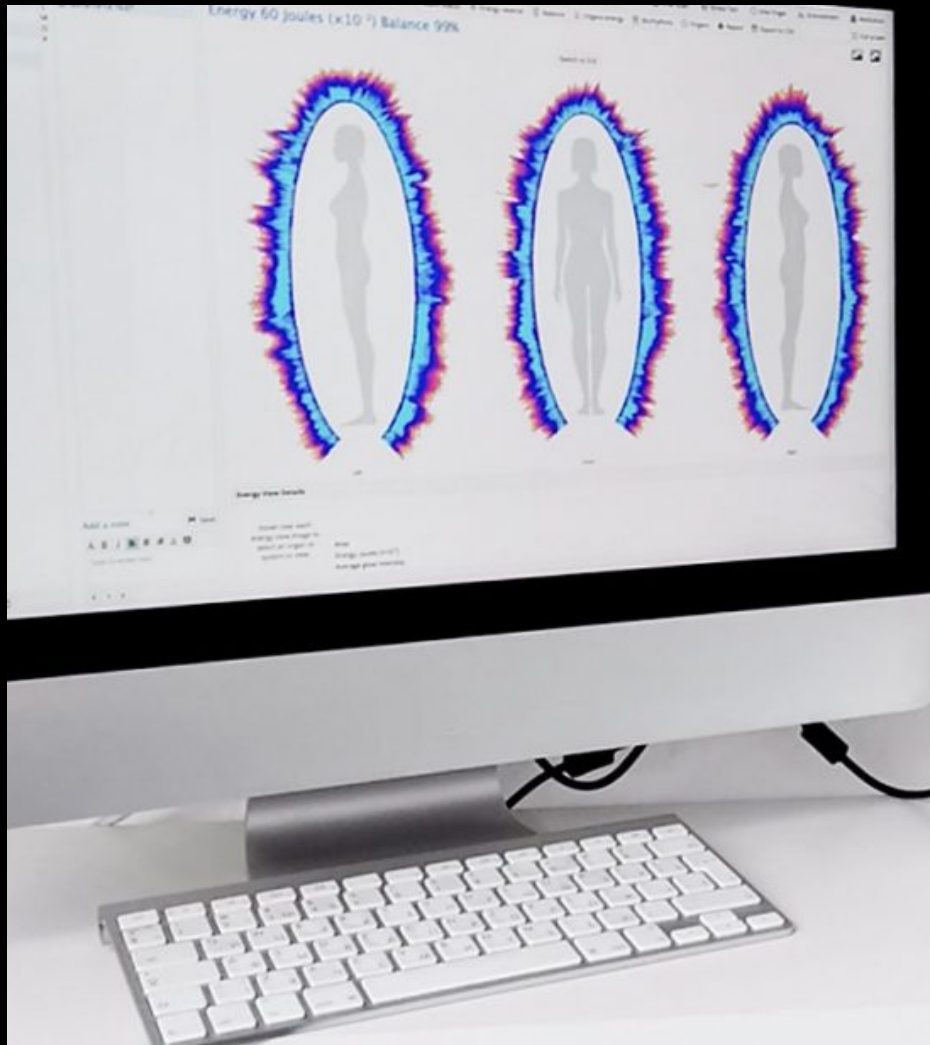
Measuring the Human Biofield



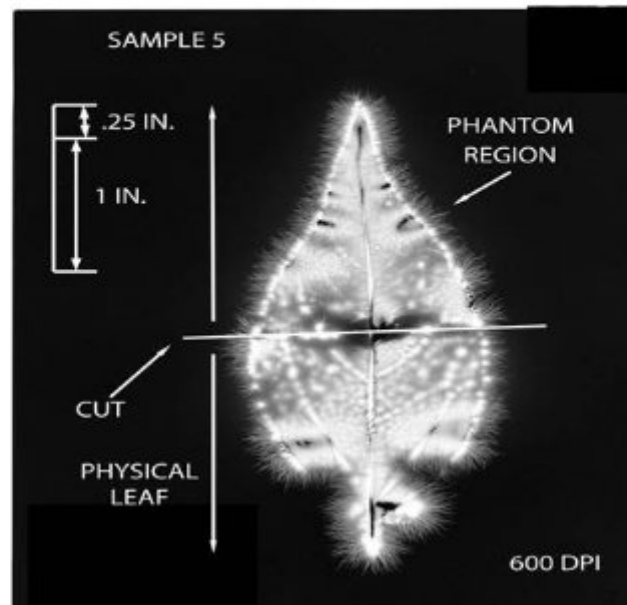
High-Voltage Electrophotography: the Gas Discharge Visualization Camera

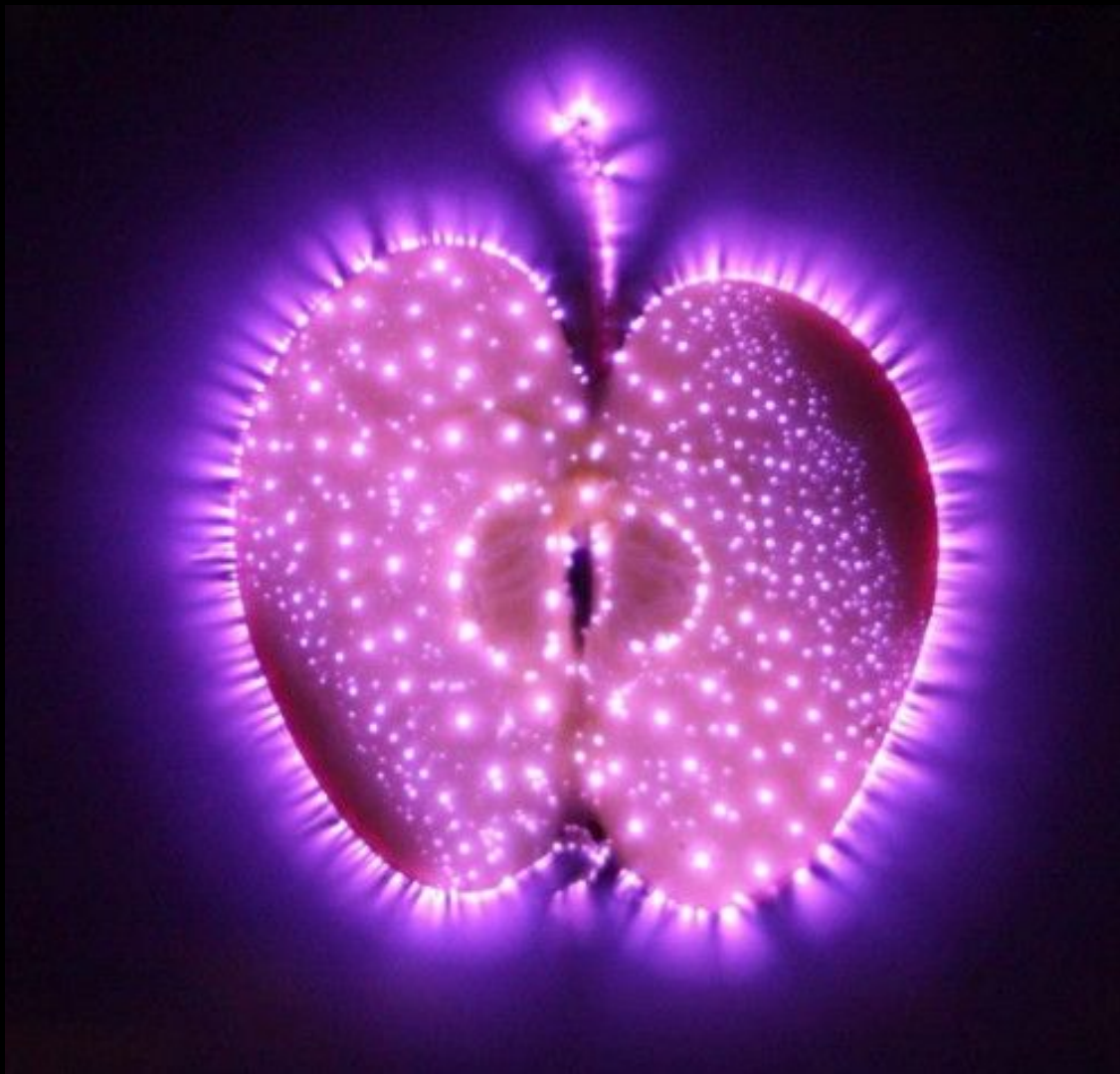


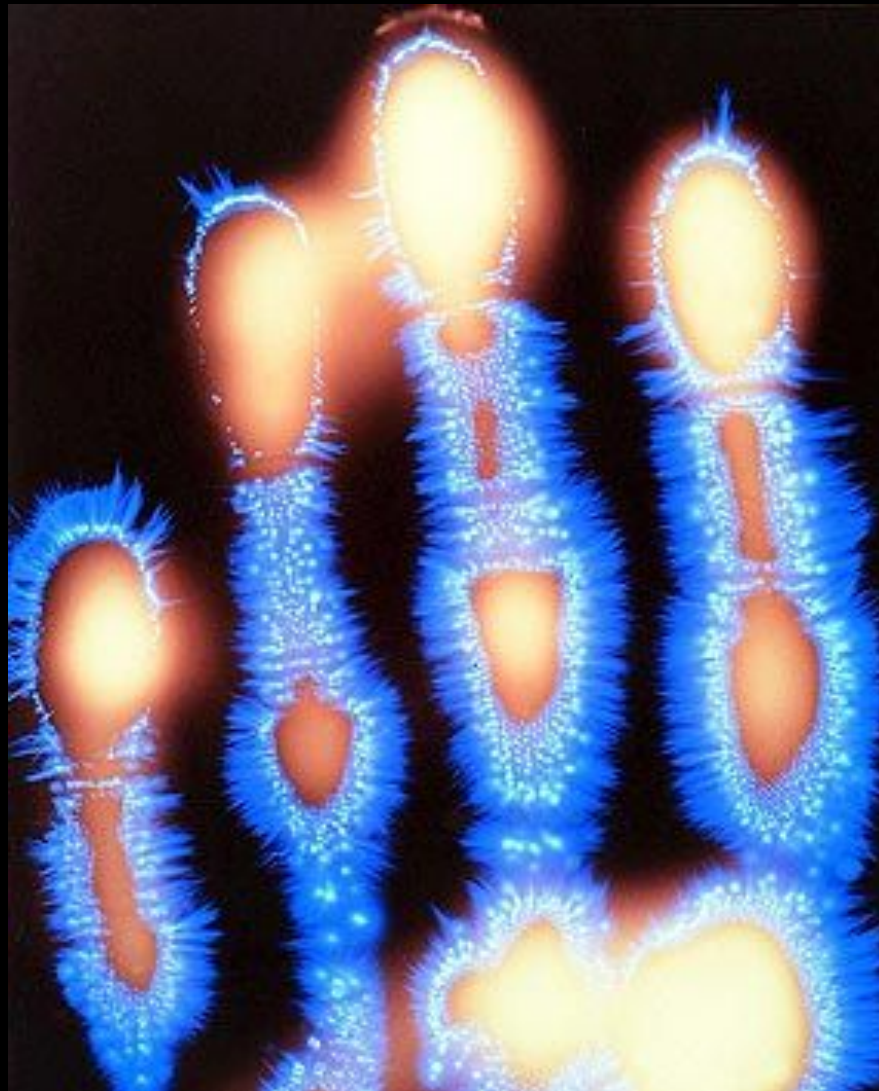
<http://gdvcamera.com>



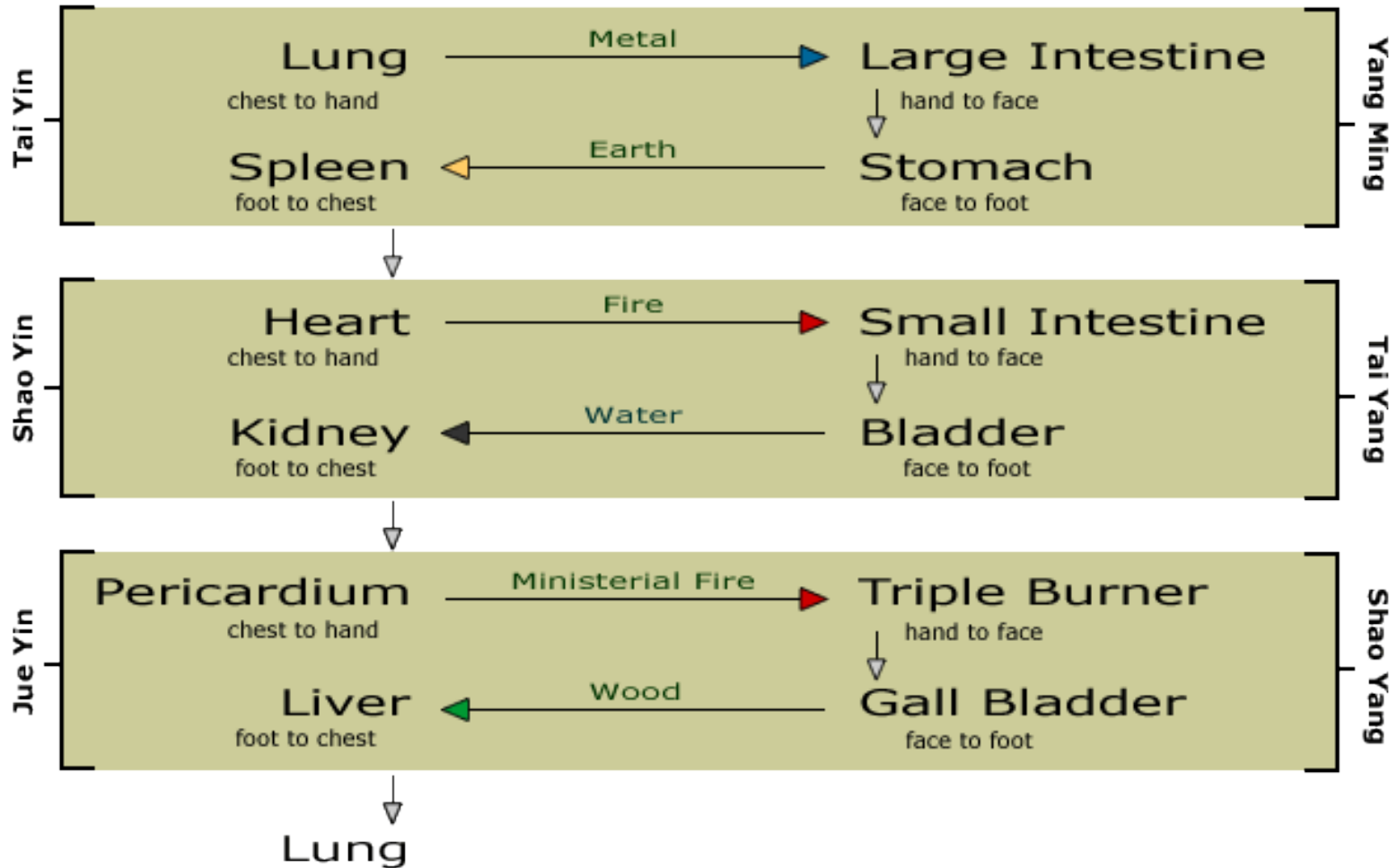
Phantom Leaf Research



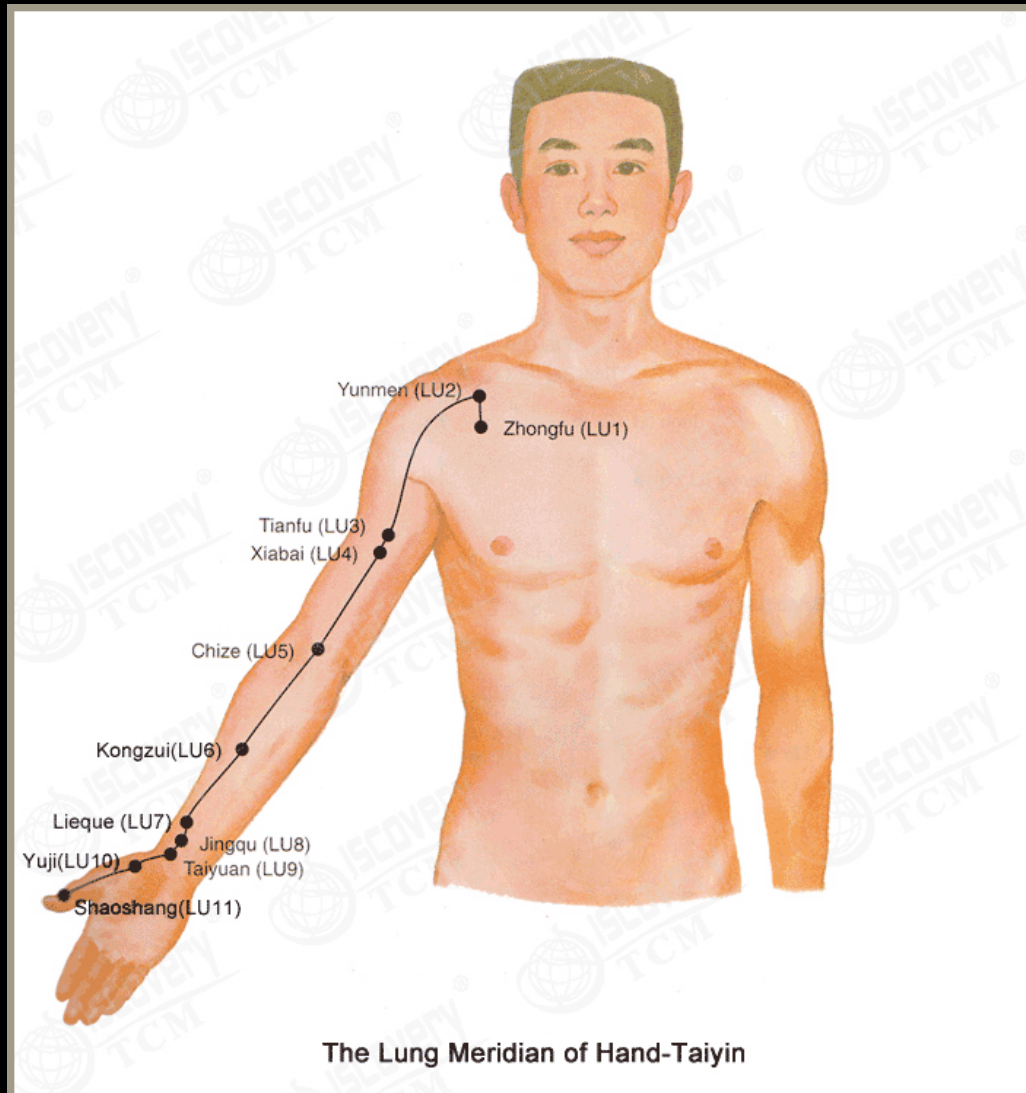




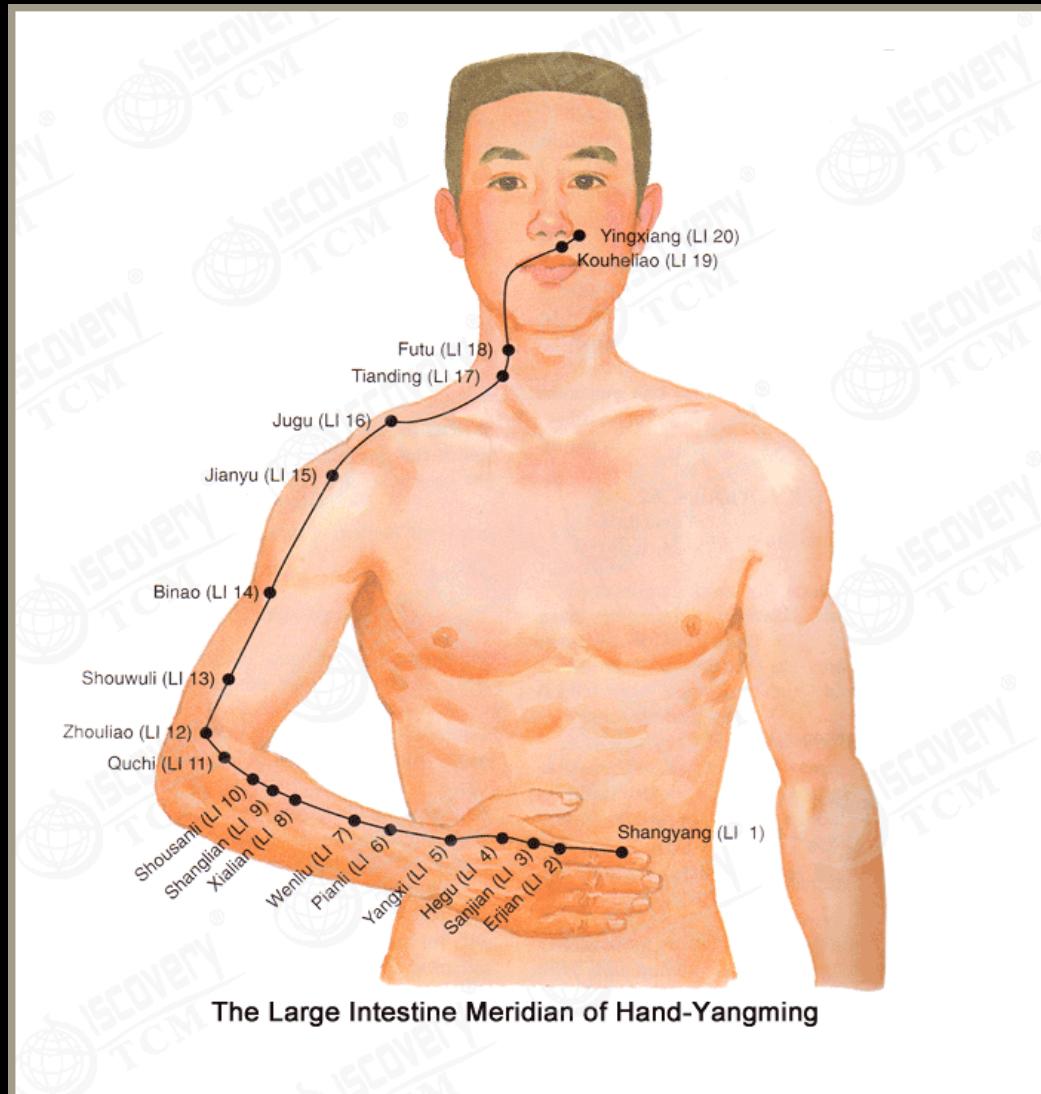
Qi Flow



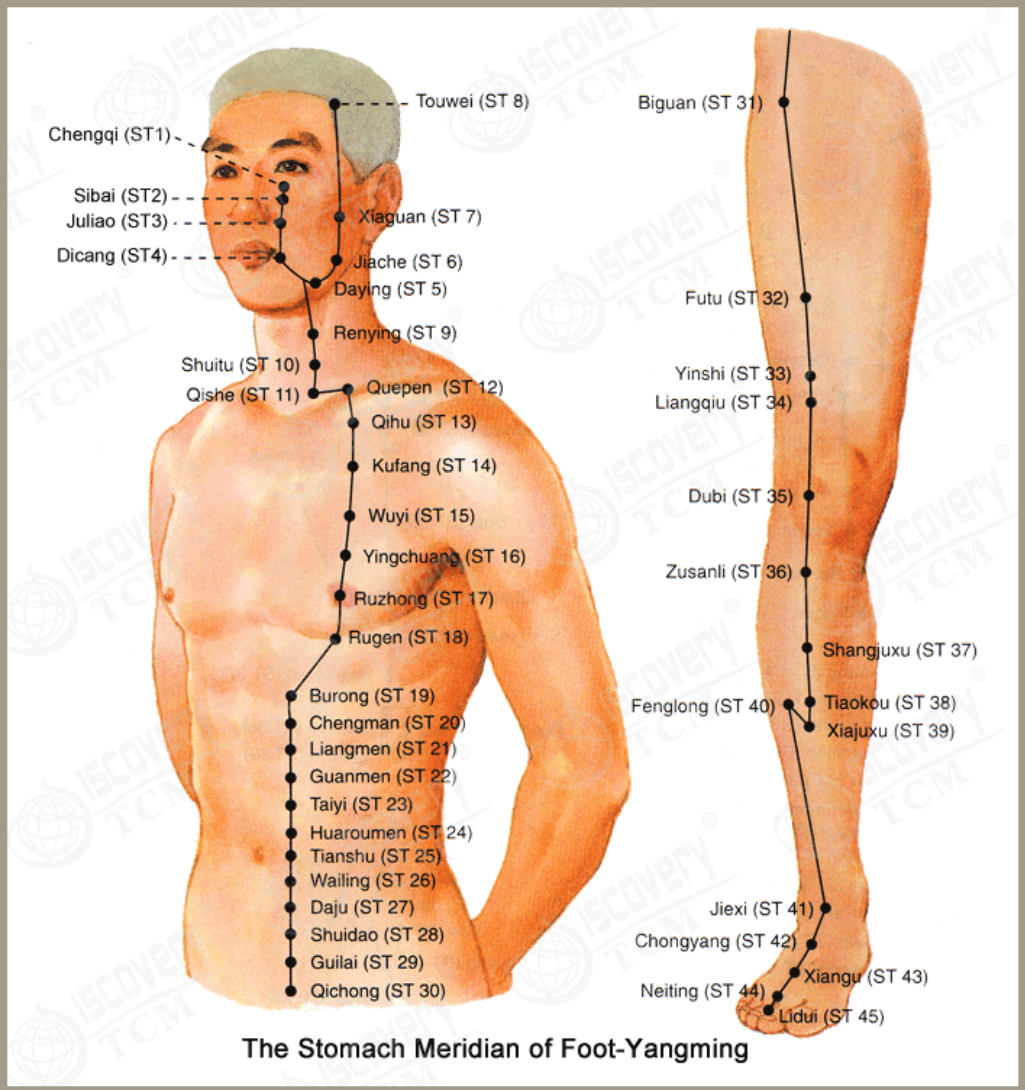
Lung Meridian – Hand Taiyin



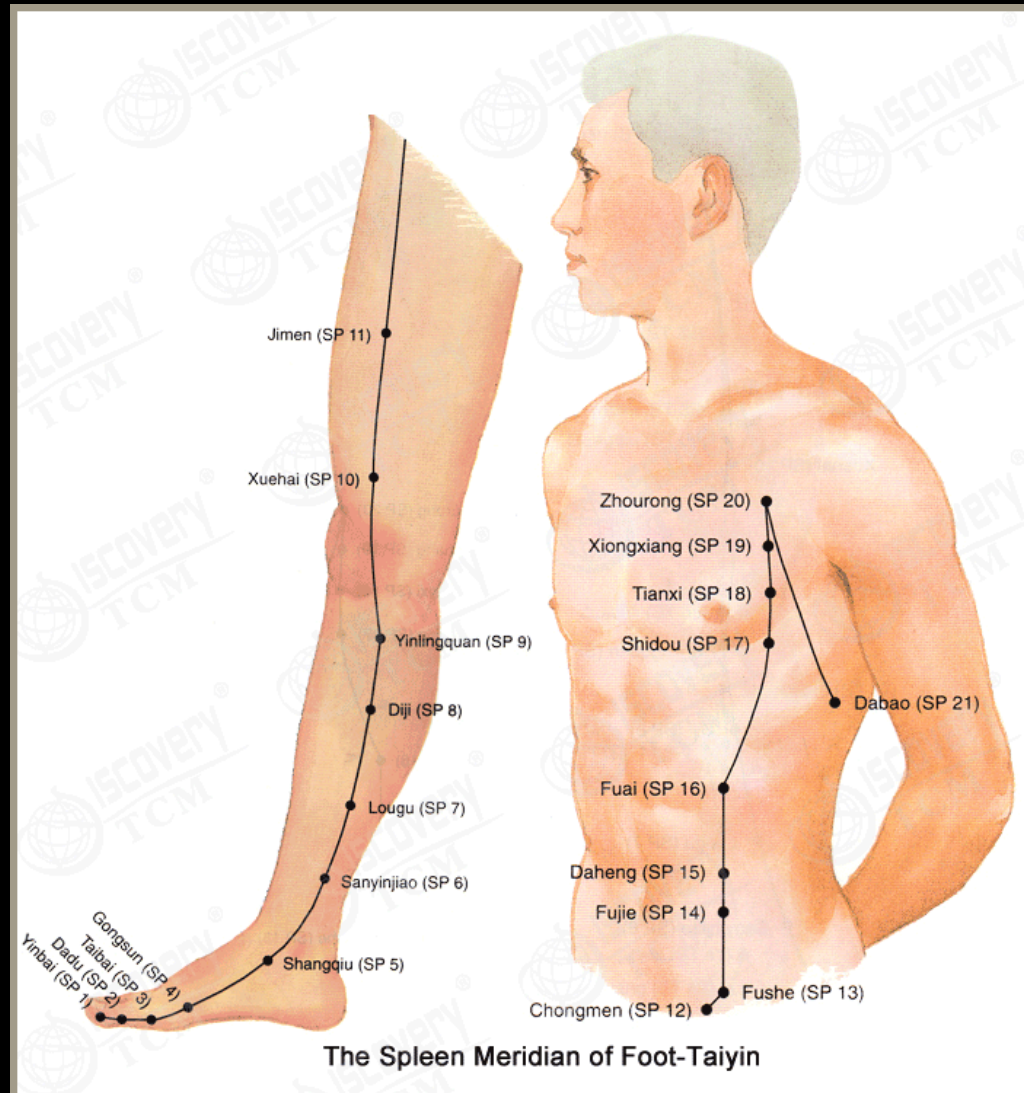
Large Intestine Meridian – Hand Yangming



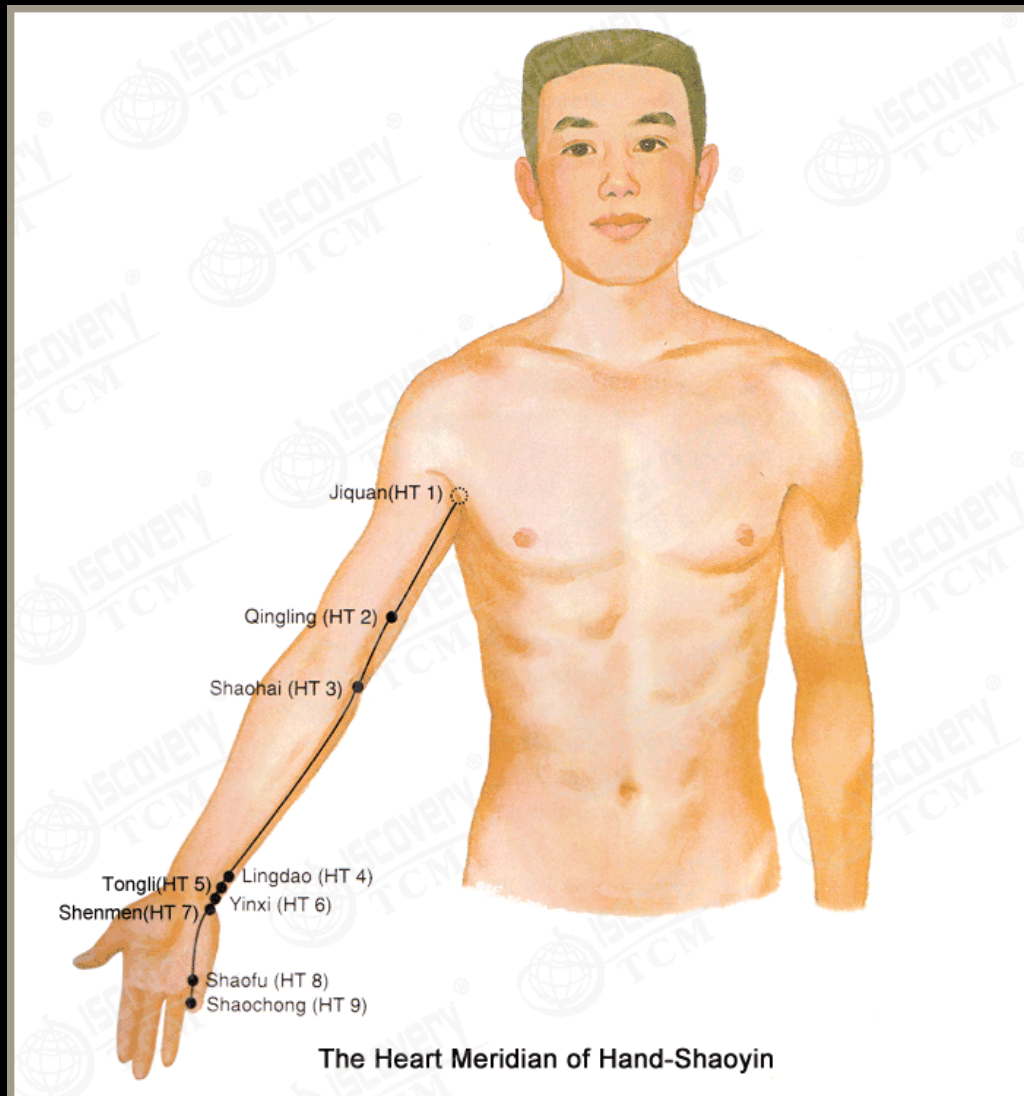
Stomach Meridian – Foot Yangming



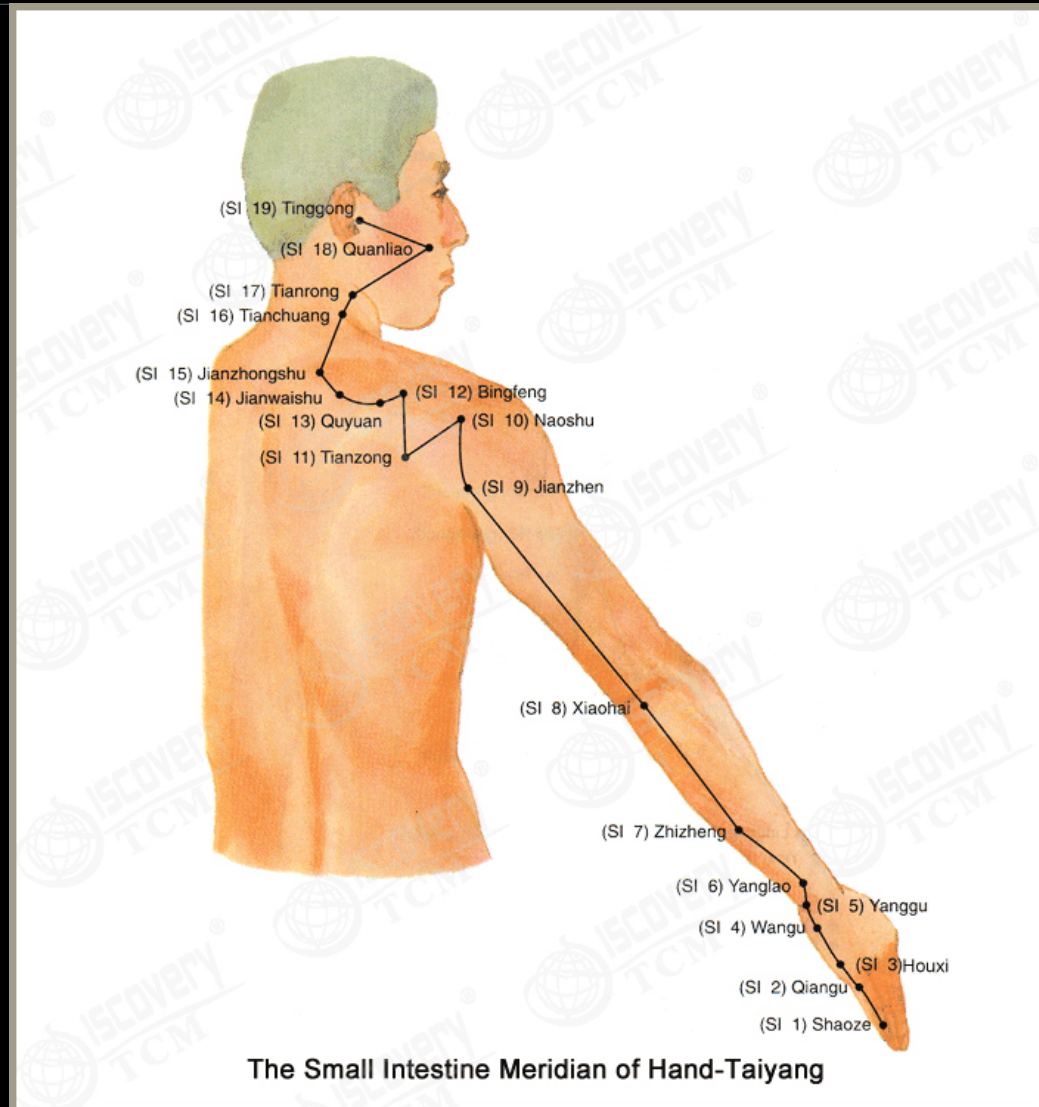
Spleen Meridian – Foot Taiyin



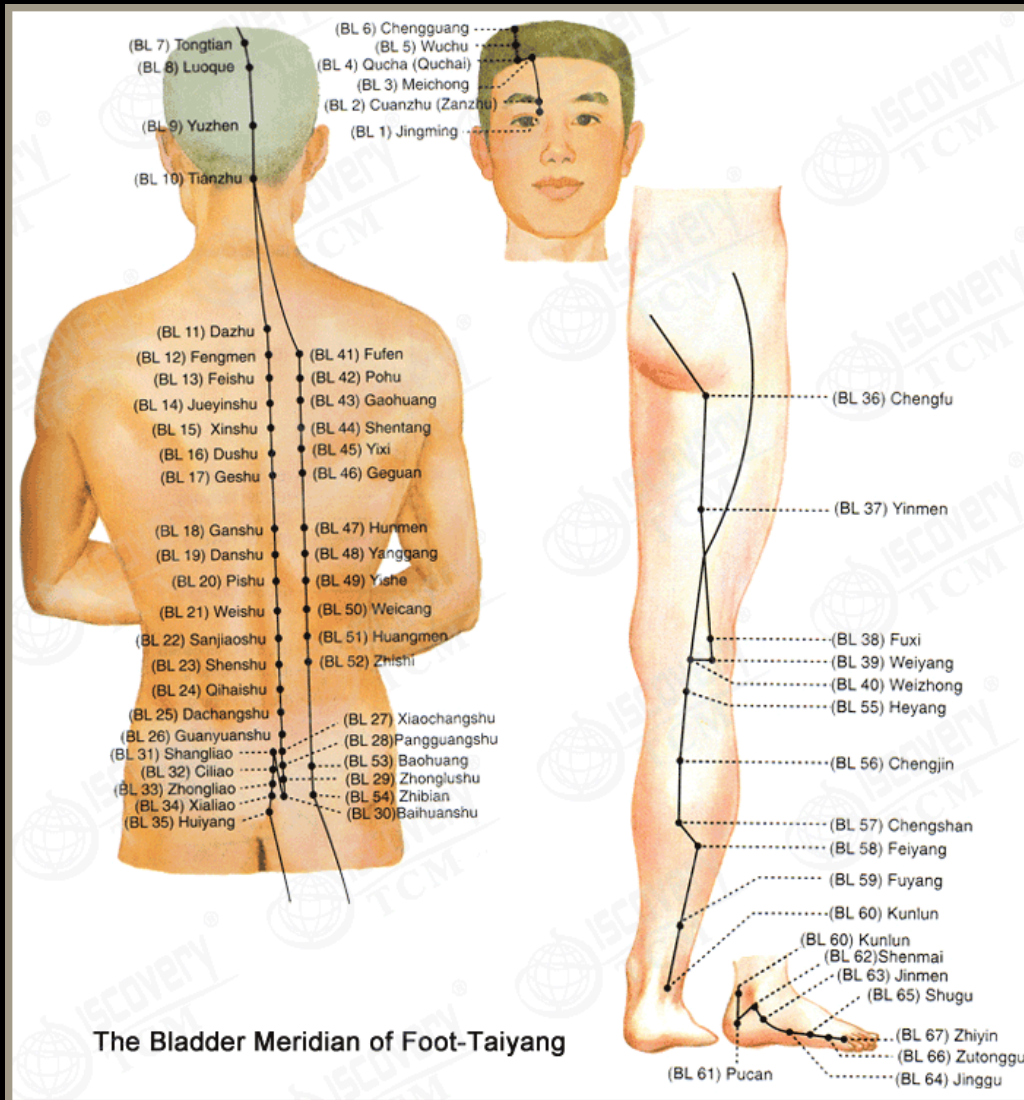
Heart Meridian – Hand Shaoyin



Small Intestine Meridian – Hand Taiyang

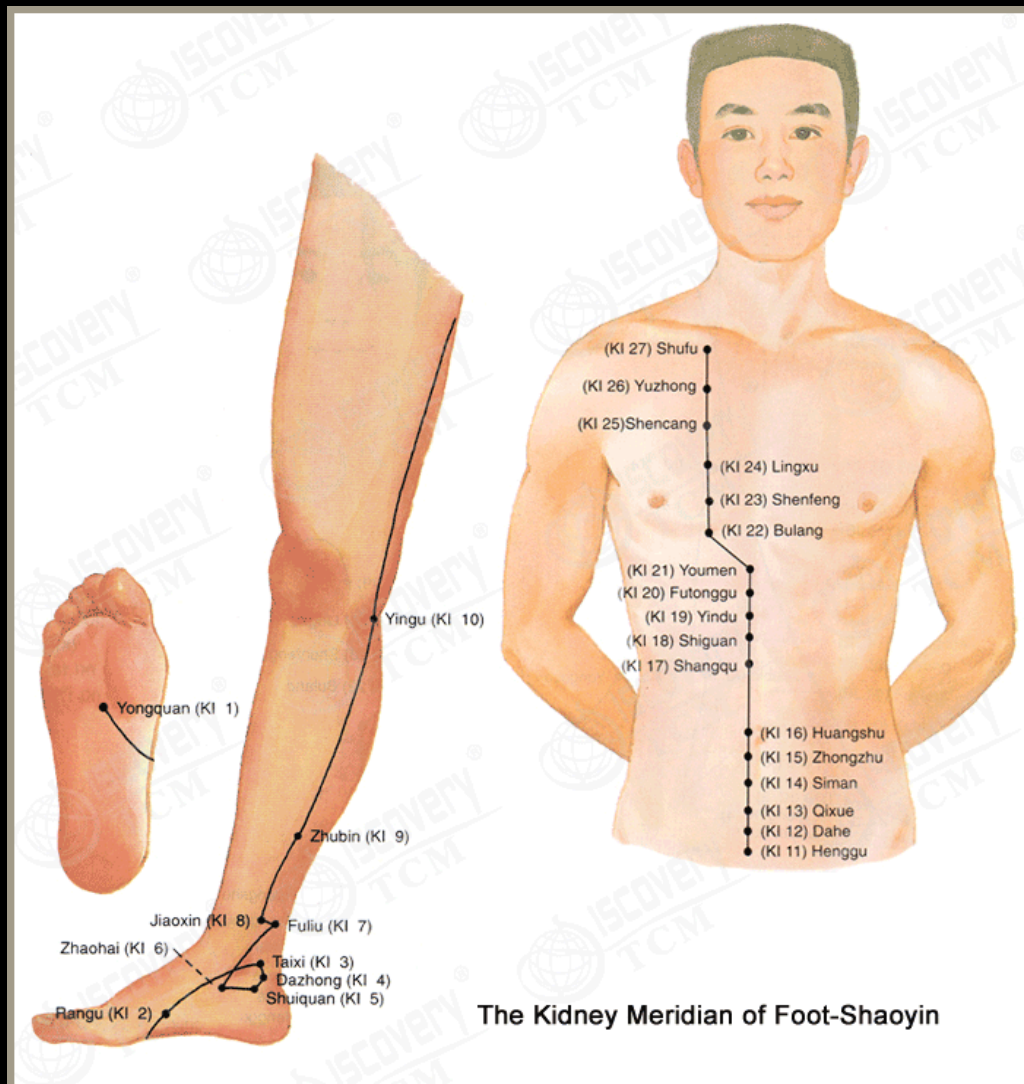


Bladder Meridian - Foot TaiYang



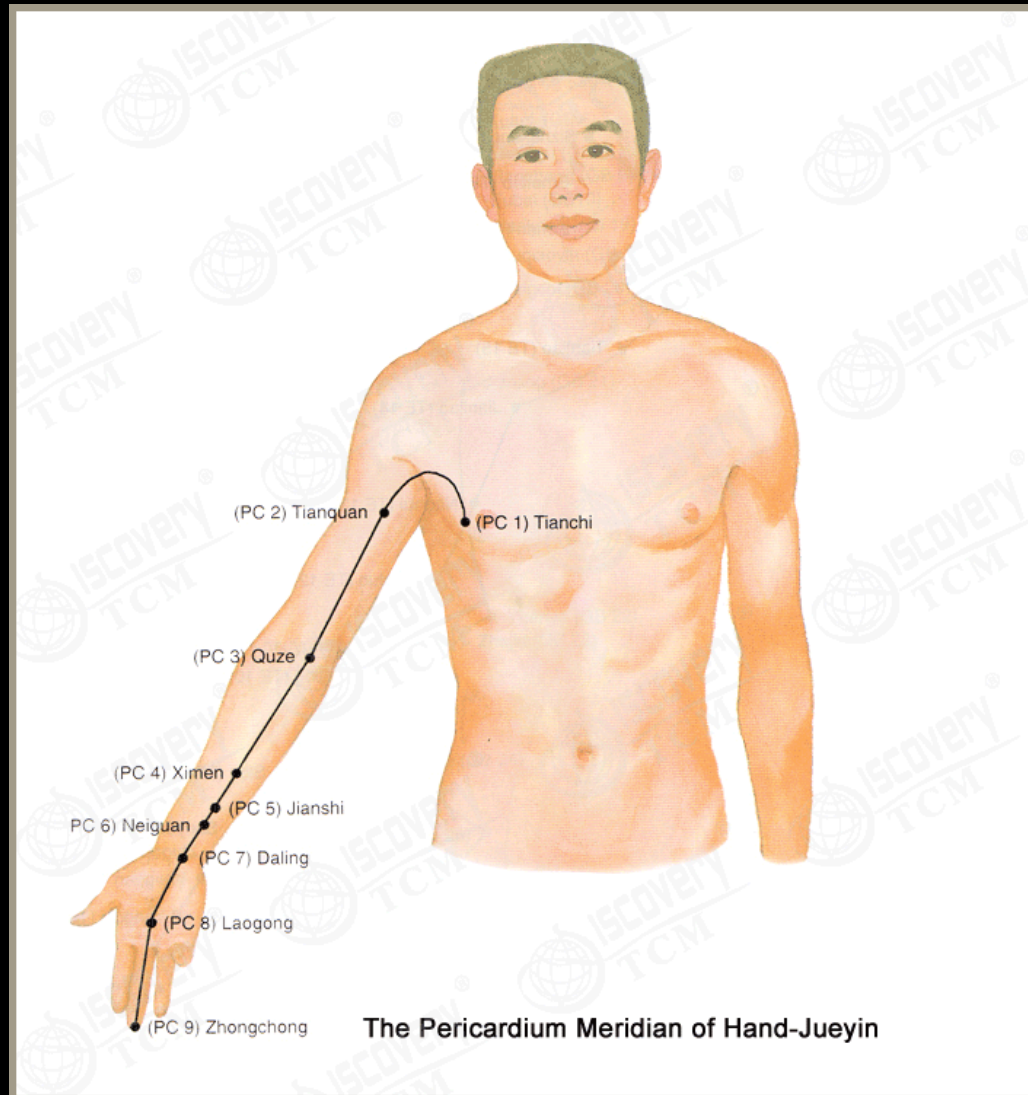
The Bladder Meridian of Foot-Taiyang

Kidney Meridian – Foot Shaoyin

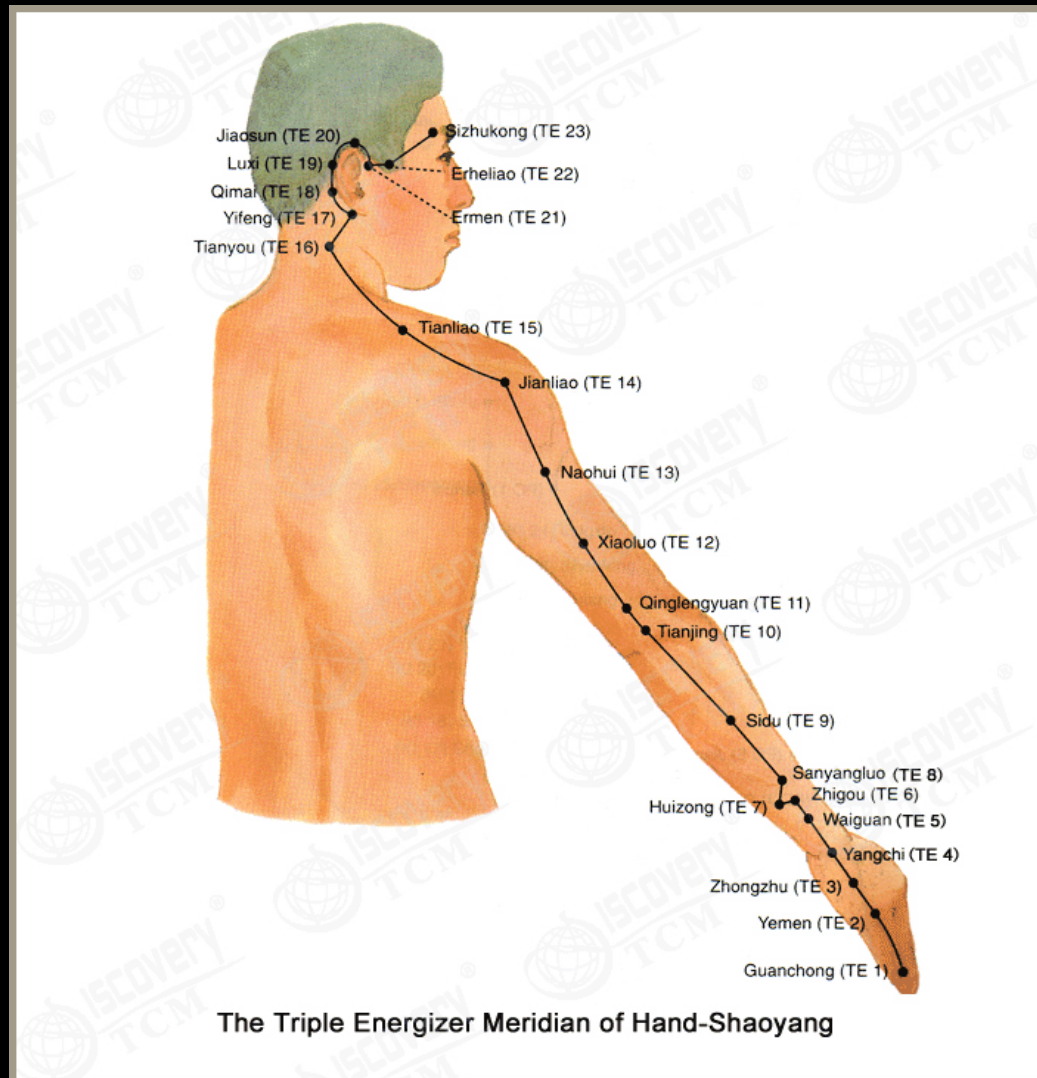


The Kidney Meridian of Foot-Shaoyin

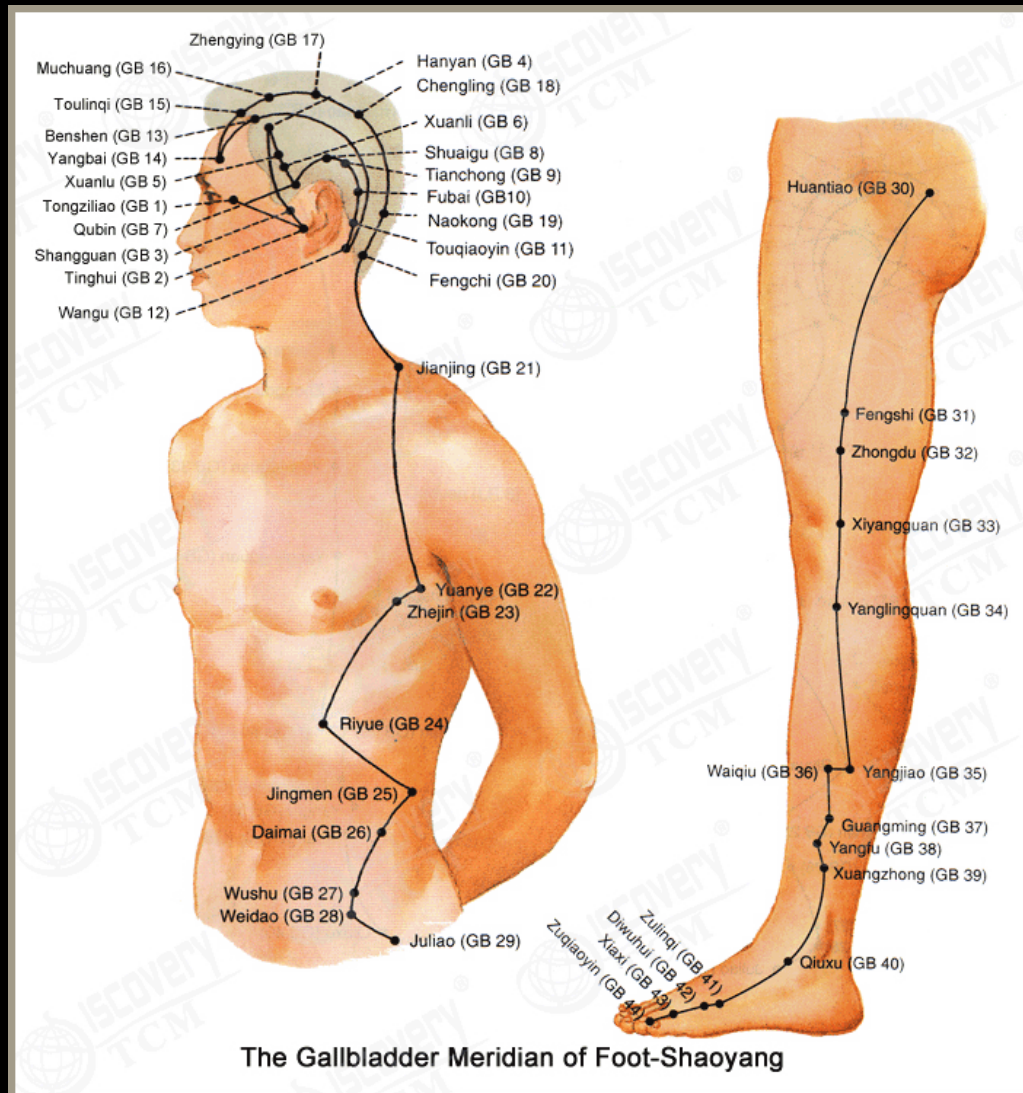
Pericardium Meridian – Hand Jueyin



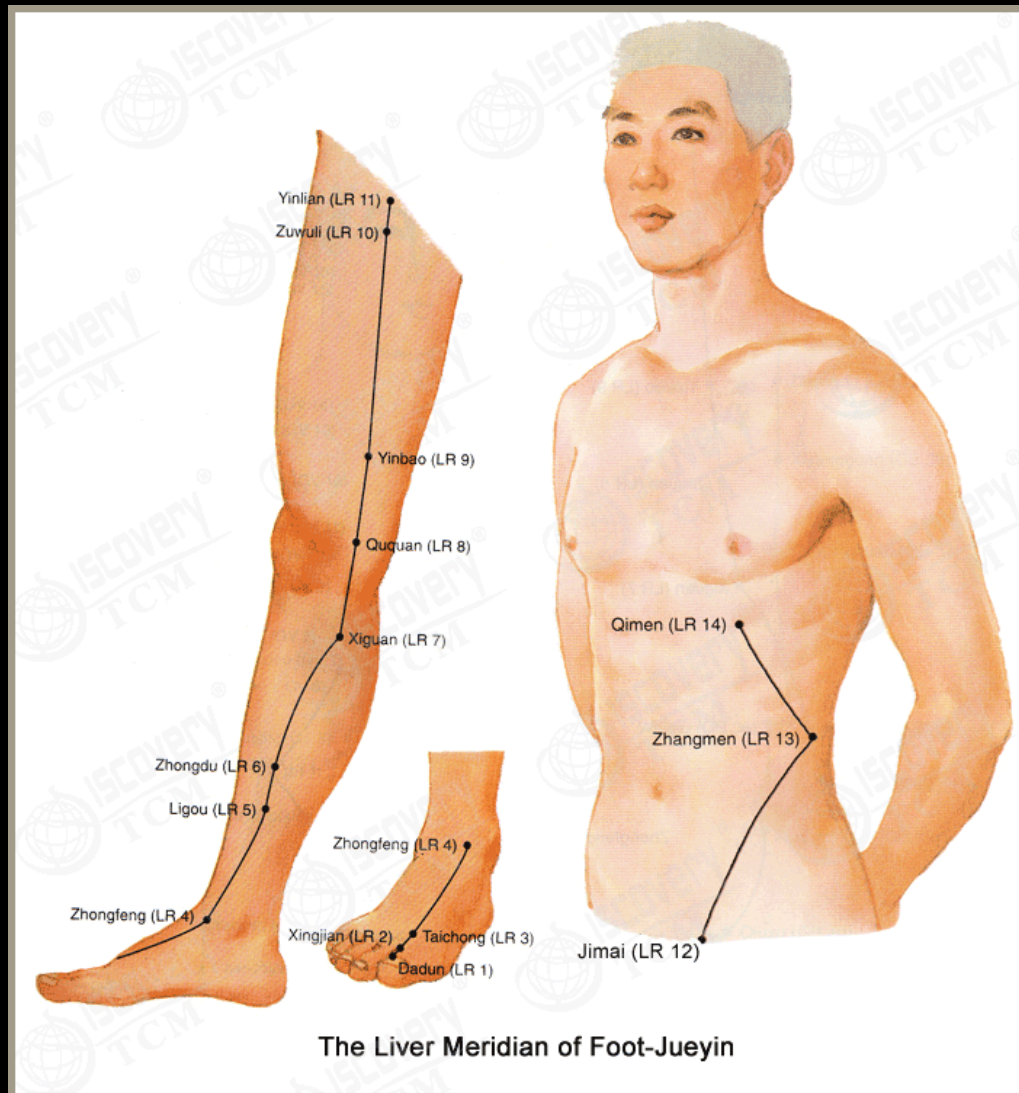
Sanjiao Meridian – Hand Shaoyang



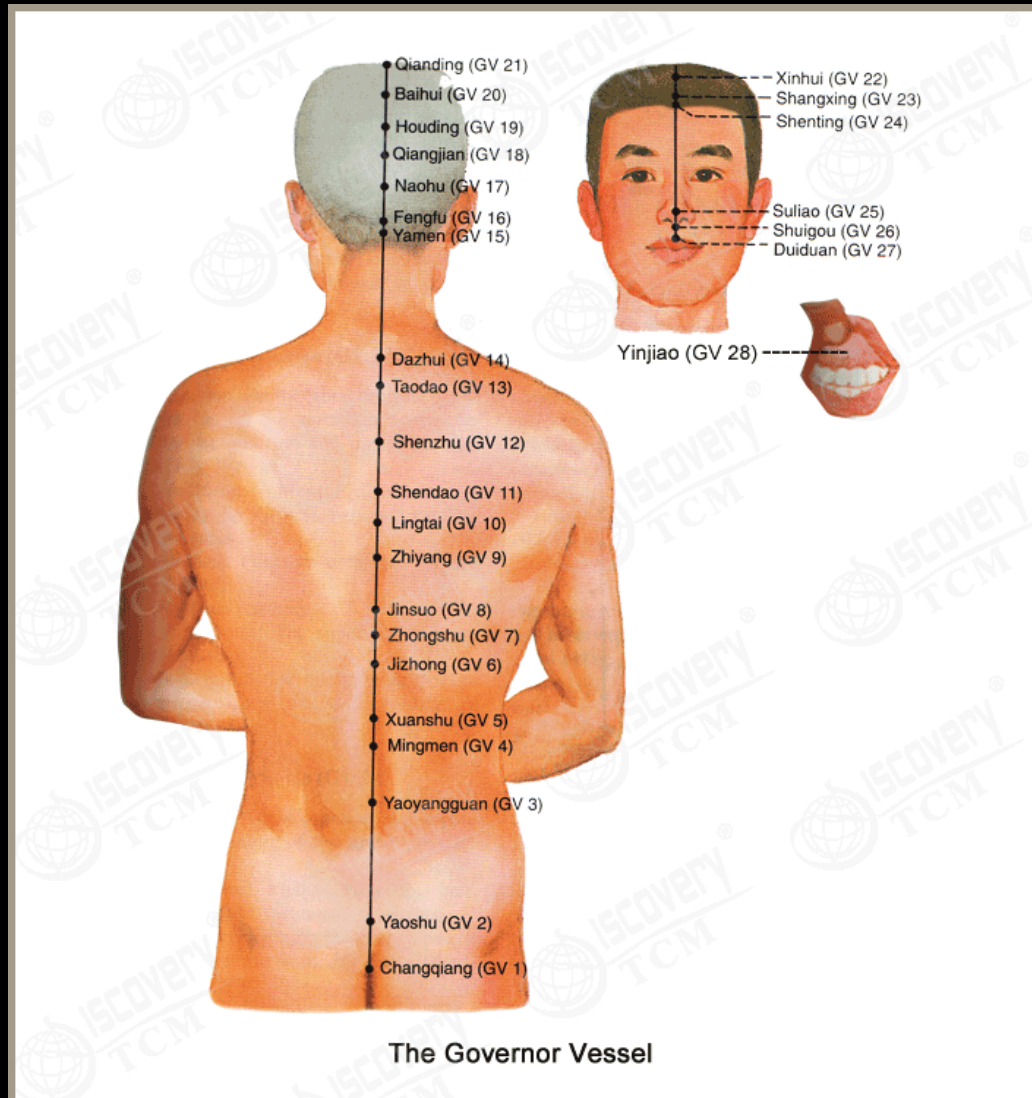
Gallbladder Meridian – Foot Shaoyang



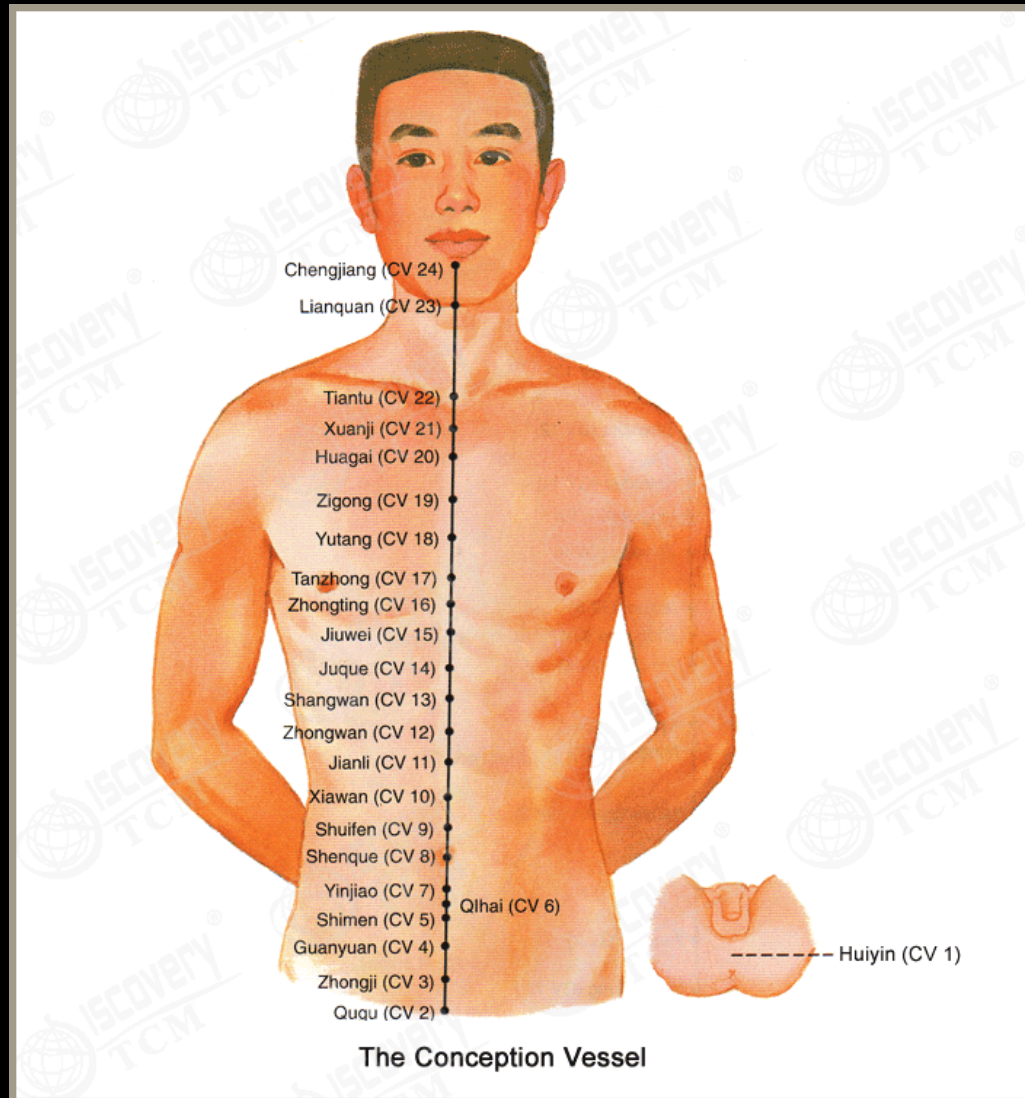
Liver Meridian – Foot Jueyin

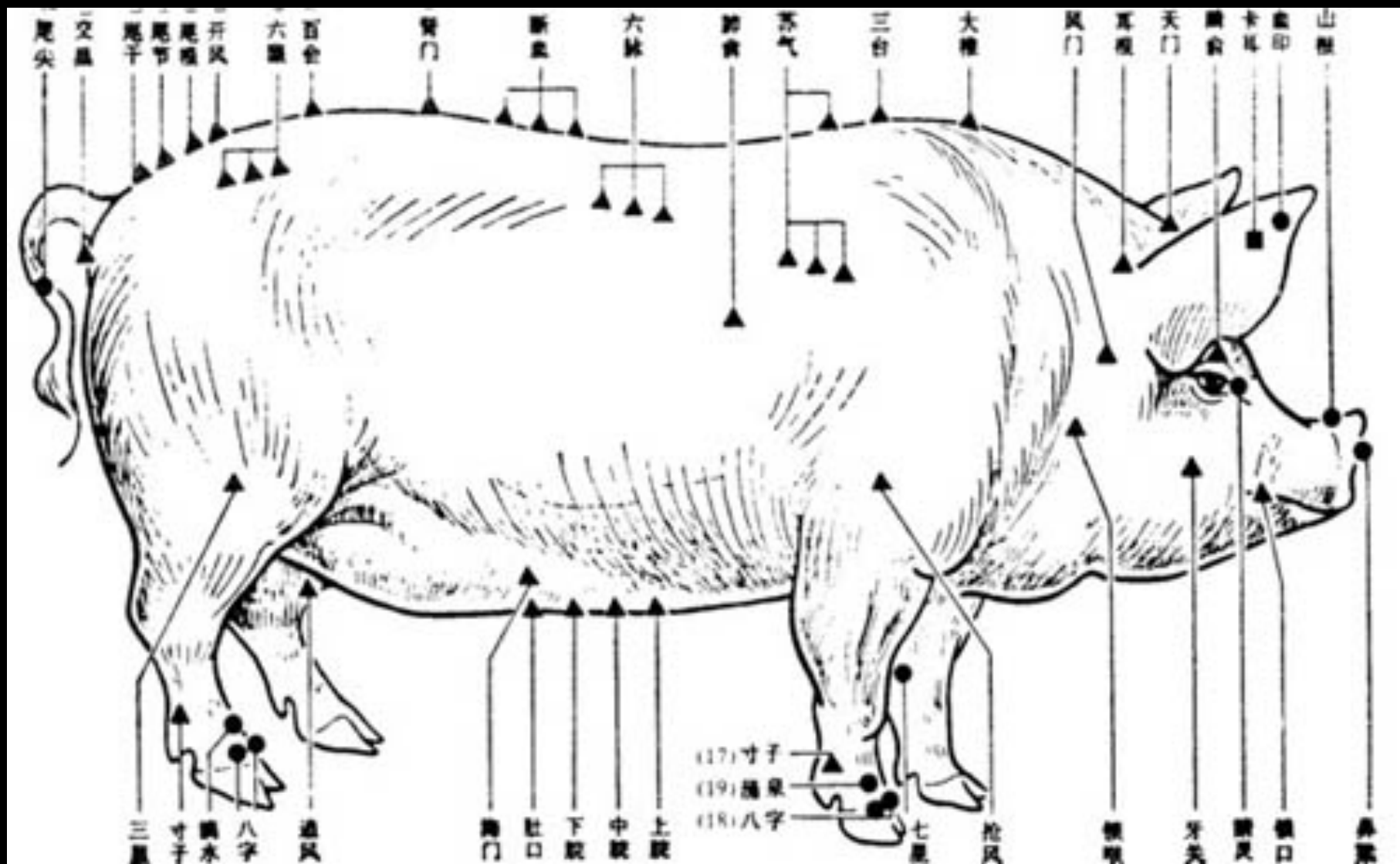


The Governor Vessel – Du Meridian



Conception Vessel – Ren Meridian





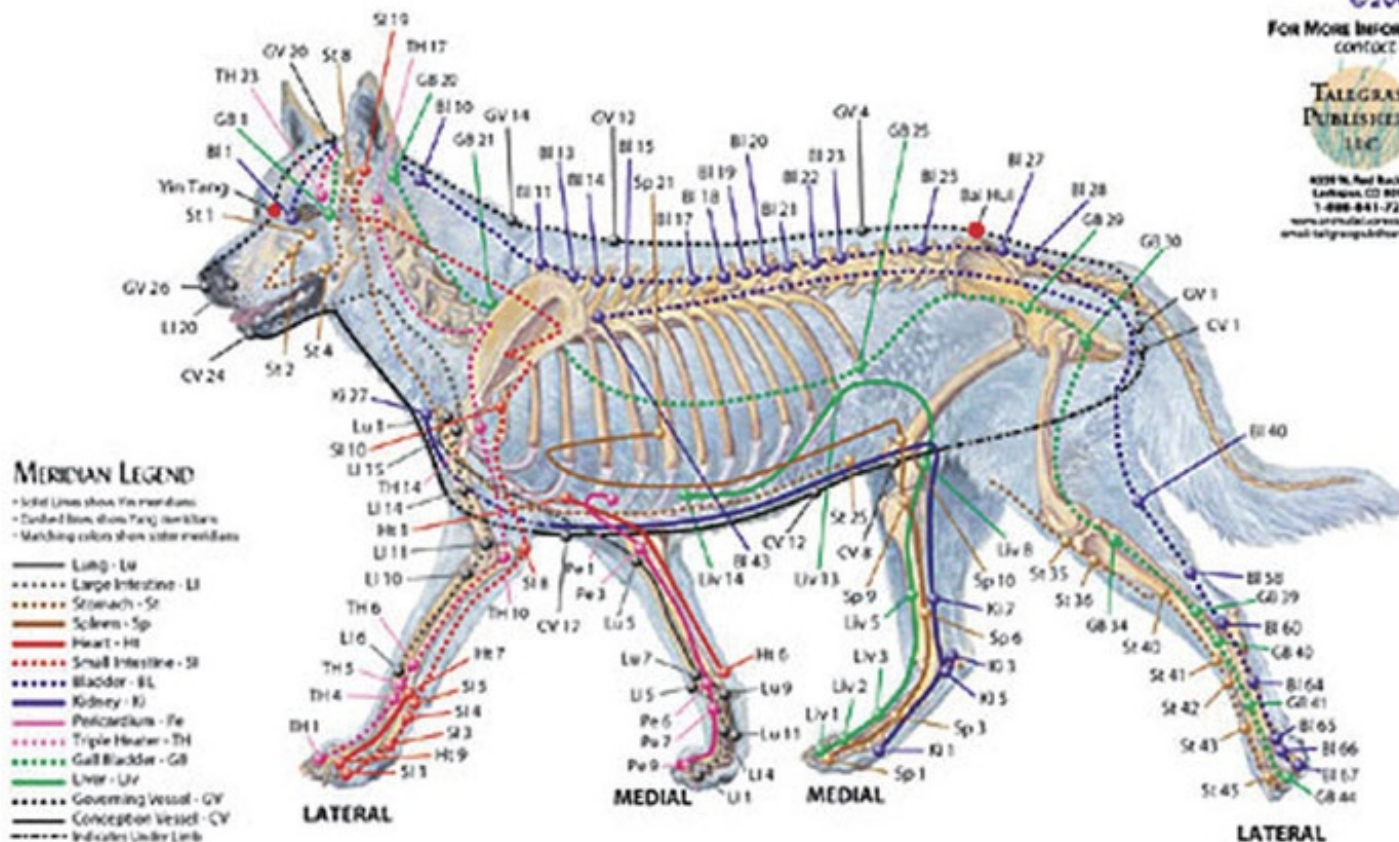
CANINE ACUPRESSURE MERIDIAN CHART

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FOR MORE INFORMATION
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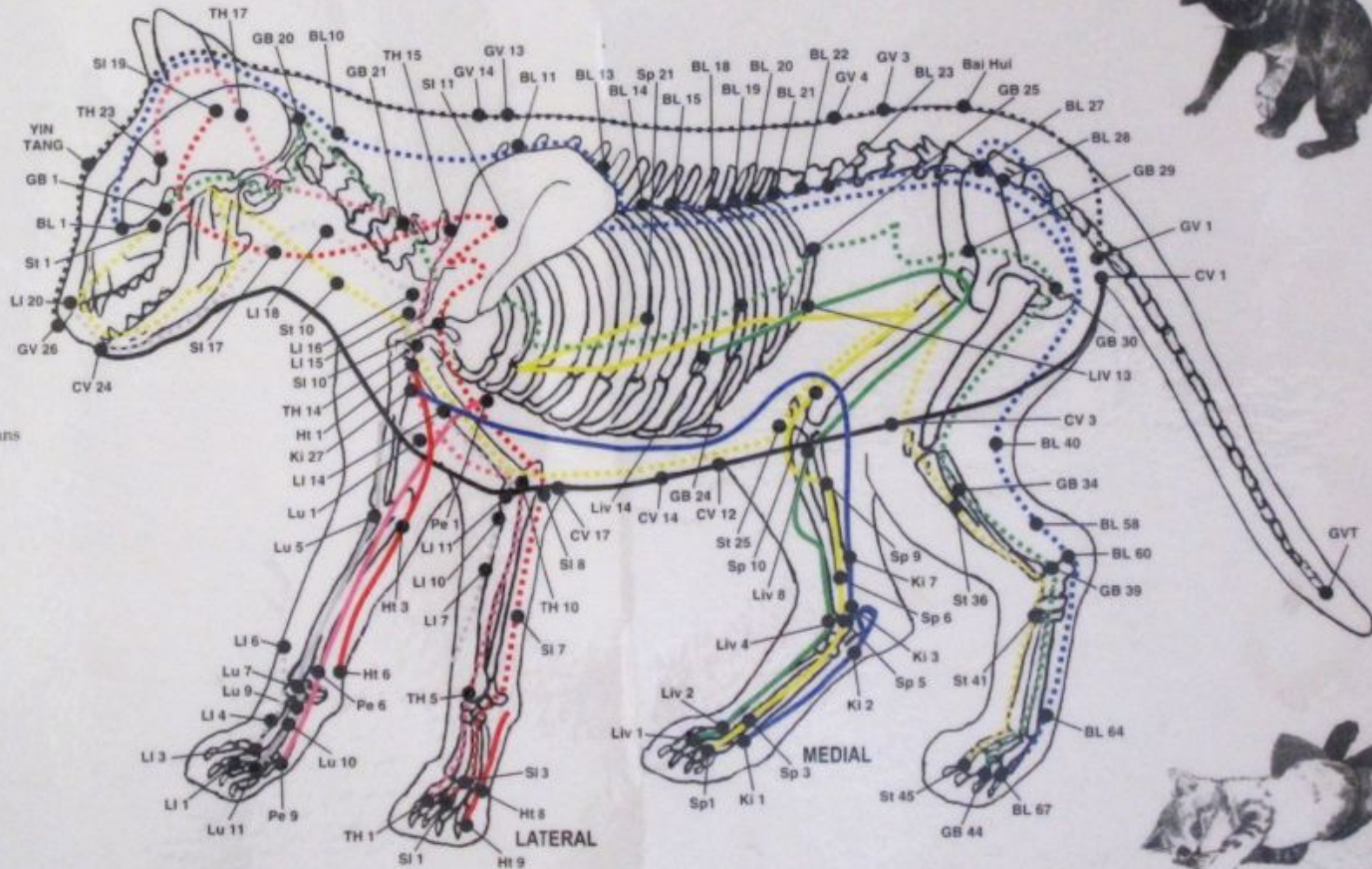


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- MERIDIAN LEGEND**
- Solid Lines show Yin meridians
 - Dashed Lines show Yang meridians
 - Matching colors show sister meridians
- Lung - Lu
 - Large Intestine - LI
 - Stomach - St
 - Spleen - Sp
 - Heart - Ht
 - Small Intestine - SI
 - Bladder - BL
 - Kidney - KI
 - Pericardium - Pc
 - Triple Burner - TB
 - Gall Bladder - GB
 - Liver - Lv
 - Governing Vessel - GV
 - Conception Vessel - CV
 - Indicates Under Limb

FELINE ACUPRESSURE MERIDIAN CHART ©1999



MERIDIAN LEGEND

- Solid lines show Yin meridians
- Dotted lines show Yang meridians
- Matching color lines show sister meridians

- Large Intestine - LI
- Lung - Lu
- Kidney - Ki
- Bladder - BL
- Liver - Liv
- Gall Bladder - GB
- Small Intestine - SI
- Heart - Ht
- Triple Heater - TH
- Pericardium - Pe
- Spleen - Sp
- Stomach - St
- Governing Vessel - GV
- Conception Vessel - CV

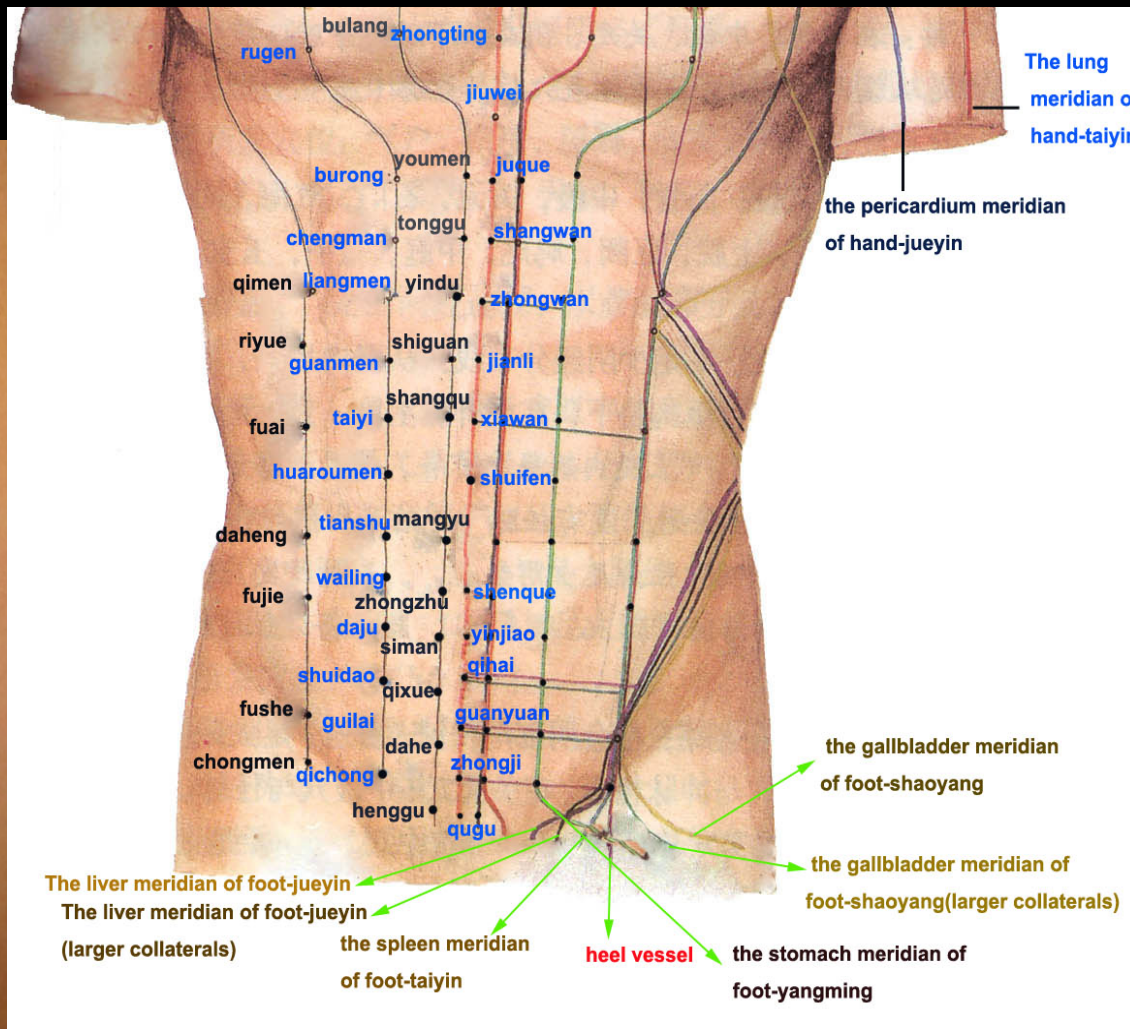
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Biofield Disruption

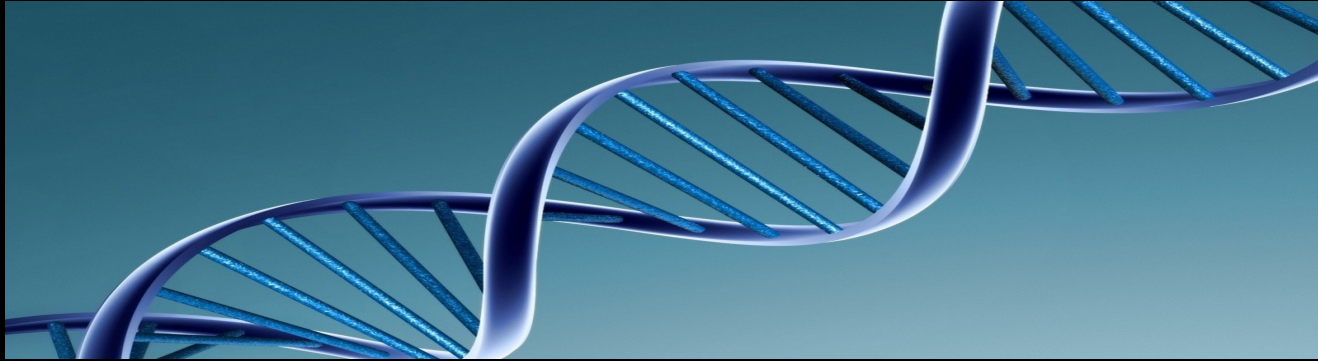
The human biofield has the potential to be corrupted and the energy flow blocked. When the flow is blocked or disrupted, a natural healthy balance cannot be maintained, and states of disease will become evident.

Focal Toxicosis and Interference Fields











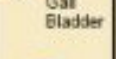



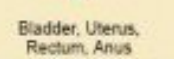

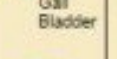

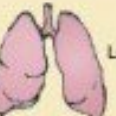














































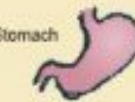





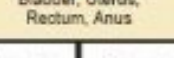



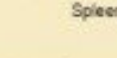





- Surgical or traumatic scars
 - C-section, gall bladder, episiotomy, shunt scars
 - Auto accidents, falls, cuts, vaccination scars
 - Cosmetic procedures - breast implants, tummy tucks
- Internal scars - surgical adhesions
- Dental foci – root canal treated teeth, cavitations
- Concussion
- Medical Implants – metal inside the body
- Diseased organs – GB, appendix, tonsils, colon
- Tattoos, permanent piercings



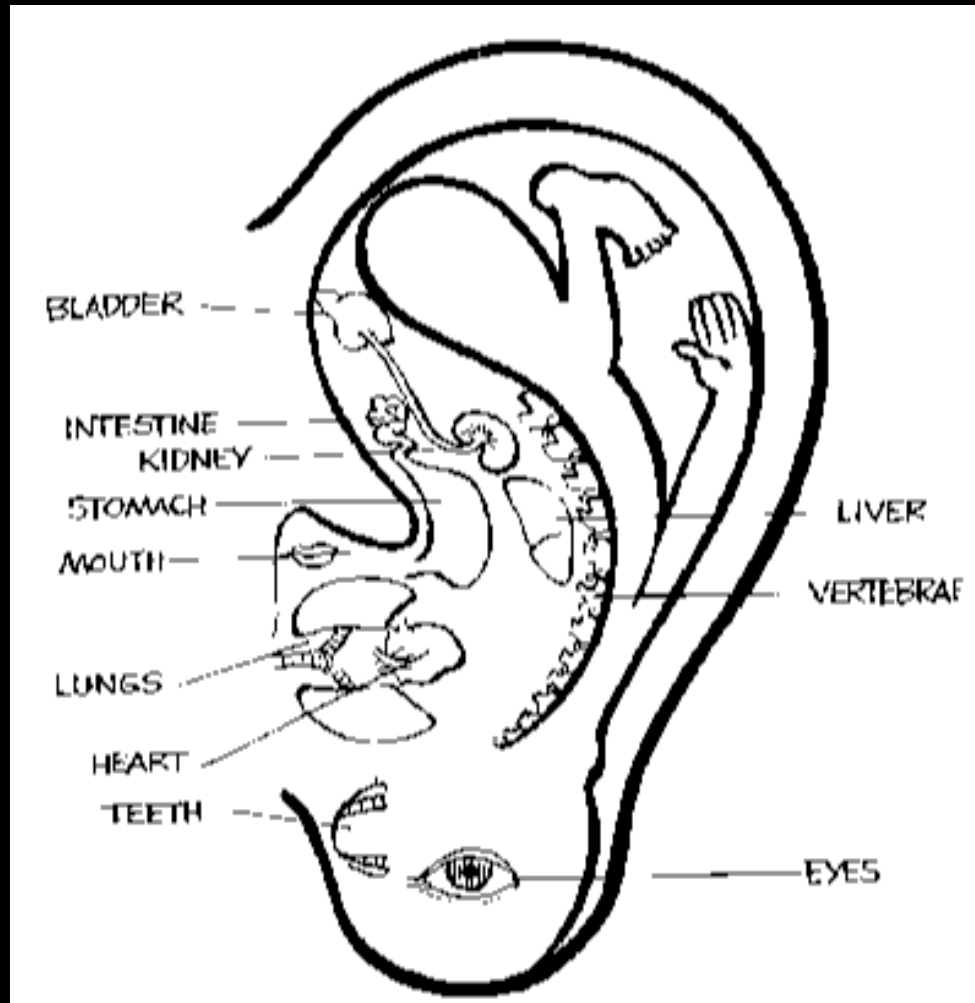
Holographic Biofield Models



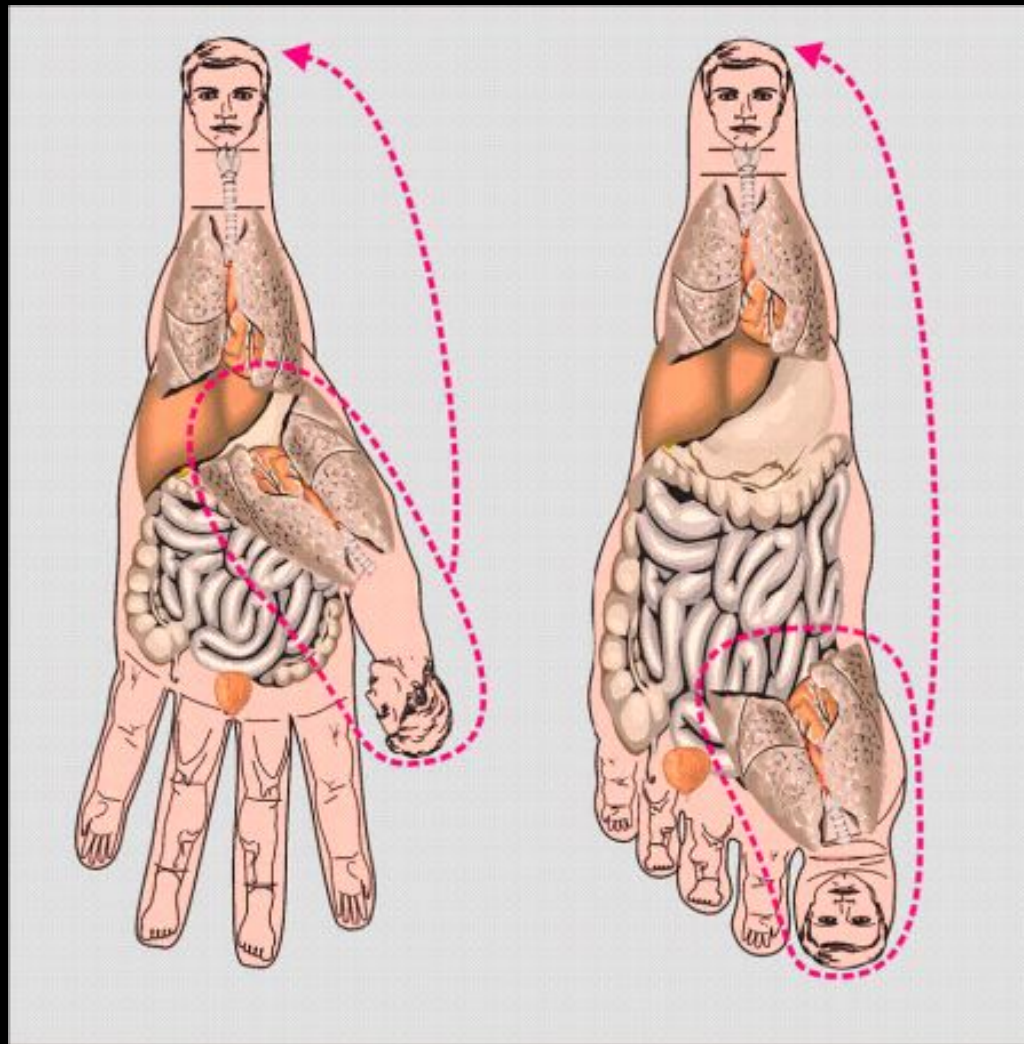
The information of the whole is stored
in its smallest part

Glands	Anterior pituitary	RIGHT BREAST			Posterior pituitary	Intermediate lobe of pituitary	Pineal	Pineal	Intermediate lobe of pituitary	Posterior pituitary	LEFT BREAST			Anterior pituitary		
		Parathyroid	Thyroid	Thymus							Thymus	Thyroid	Parathyroid			
Organs	Heart  Small Intestine  Endocrine gland, Pericardial 	Breast  Thyroid  Stomach  Pancreas 	Lungs  Large Intestine 	Liver  Gall Bladder  Eye 	Kidneys  Prostate  Bladder, Uterus, Rectum, Anus 	Liver  Gall Bladder  Eye 	Lungs  Large Intestine 	Esophagus  Breast  Thyroid  Stomach  Spleen 	Heart  Small Intestine  Endocrine gland, Pericardial 							
Teeth	 1	 2	 3	 4	 5	 6	 7	 8	 9	 10	 11	 12	 13	 14	 15	 16
Upper Jaw	3 rd molar (wisdom)	2 nd molar	1 st Molar	2 nd bicuspids (pre-molar)	1 st bicuspids (pre-molar)	canine (cuspid)	lateral incisor	central incisor	central incisor	lateral incisor	canine (cuspid)	1 st bicuspids (pre-molar)	2 nd bicuspids (pre-molar)	1 st Molar	2 nd molar	3 rd molar (wisdom)
Lower Jaw	3 rd molar (wisdom)	2 nd molar	1 st Molar	2 nd bicuspids (pre-molar)	1 st bicuspids (pre-molar)	canine (cuspid)	lateral incisor	central incisor	central incisor	lateral incisor	canine (cuspid)	1 st bicuspids (pre-molar)	2 nd bicuspids (pre-molar)	1 st Molar	2 nd molar	3 rd molar (wisdom)
Teeth	32 	31 	30 	29 	28 	27 	26 	25 	24 	23 	22 	21 	20 	19 	18 	17 
Organs	Heart  Small Intestine  Endocrine gland, Pericardial 	Lungs  Large Intestine 	Stomach  Pancreas 	Liver  Eye 	Kidneys  Prostate  Bladder, Uterus, Rectum, Anus 	Liver  Eye 	Stomach  Spleen 	Lungs  Large Intestine 	Heart  Small Intestine  Endocrine gland, Pericardial 							
Glands				Ovaries, Right Breast	testicles	Adrenals	Adrenals	Ovaries, Left Breast	testicles							
Element	Fire	Earth	Metal	Wood	Water	Water	Wood	Metal	Earth	Fire						

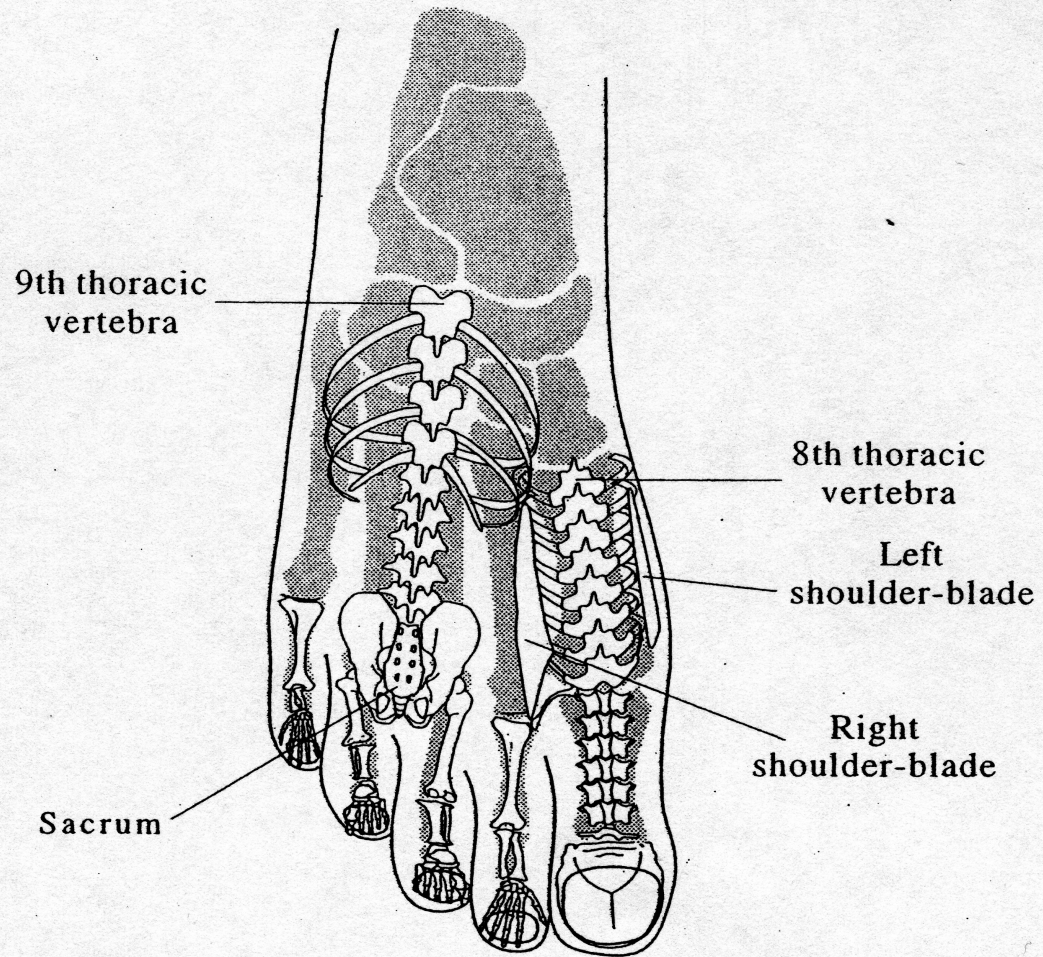
Ear Holograph



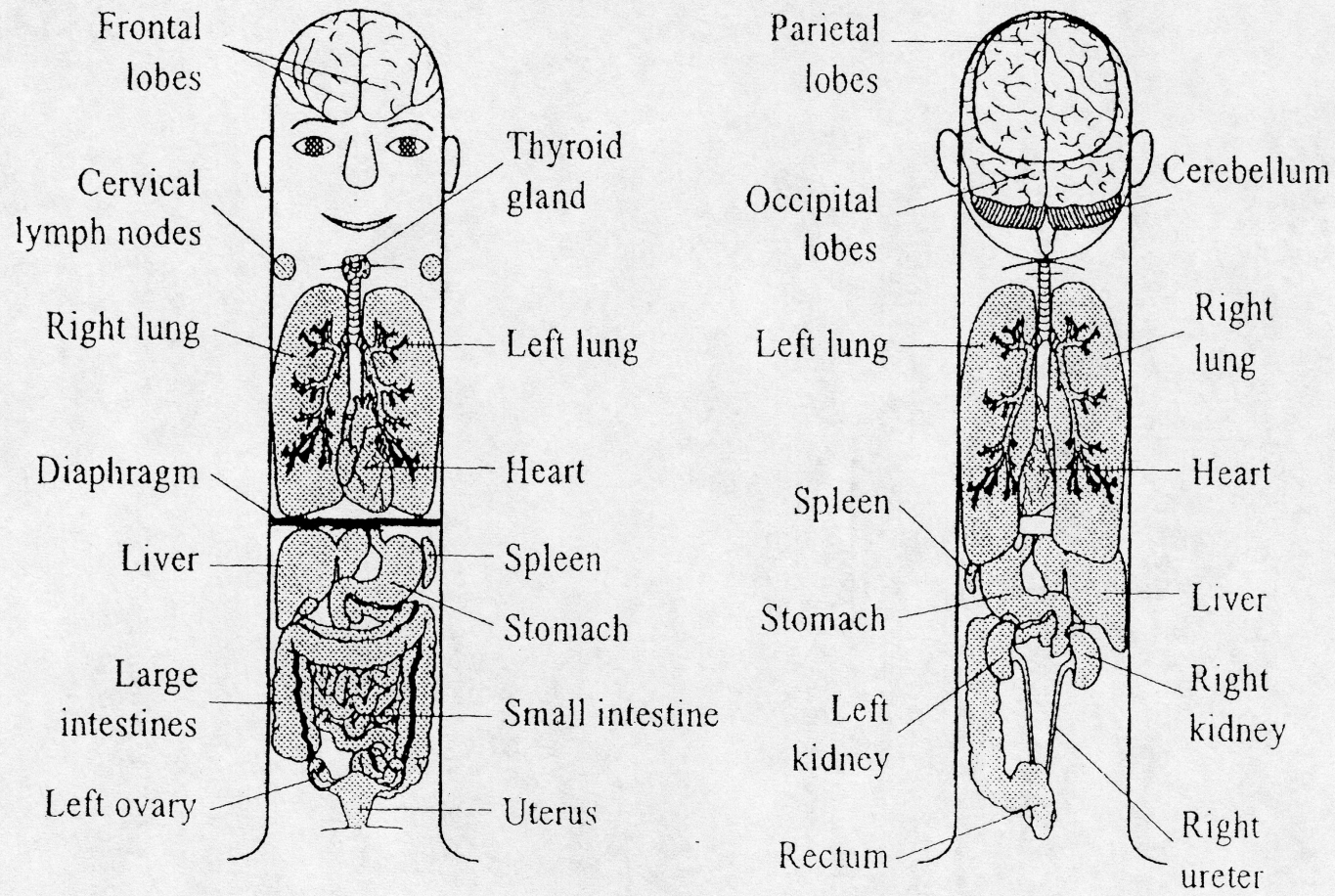
Hand and Feet Holograph



Foot Holograph of Skeletal System



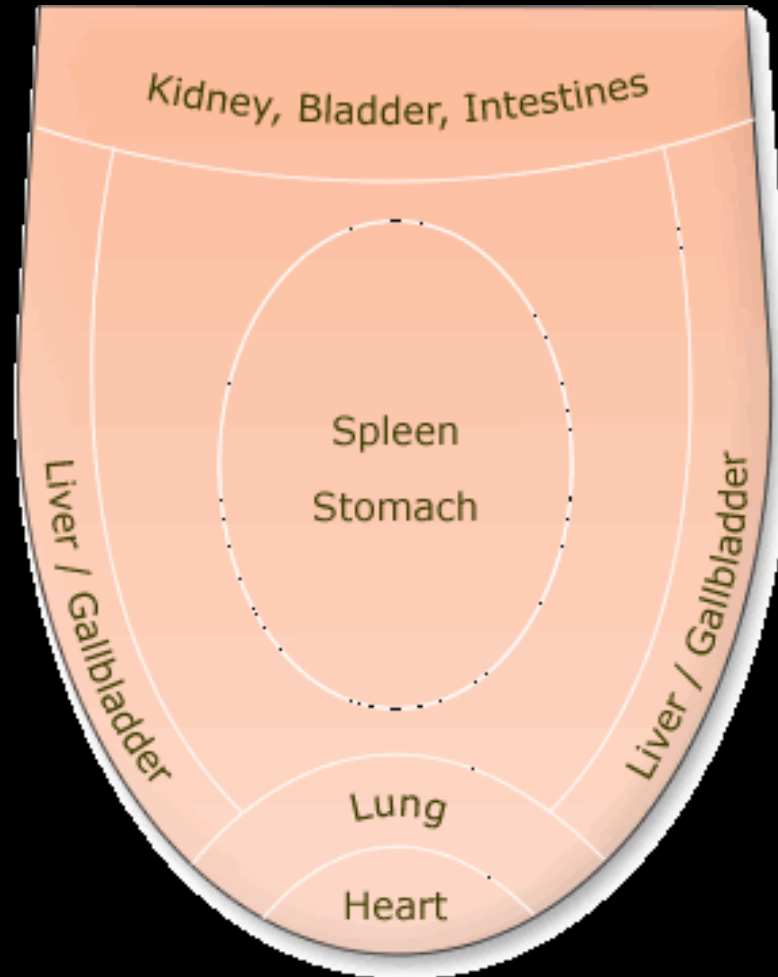
Finger Holograph

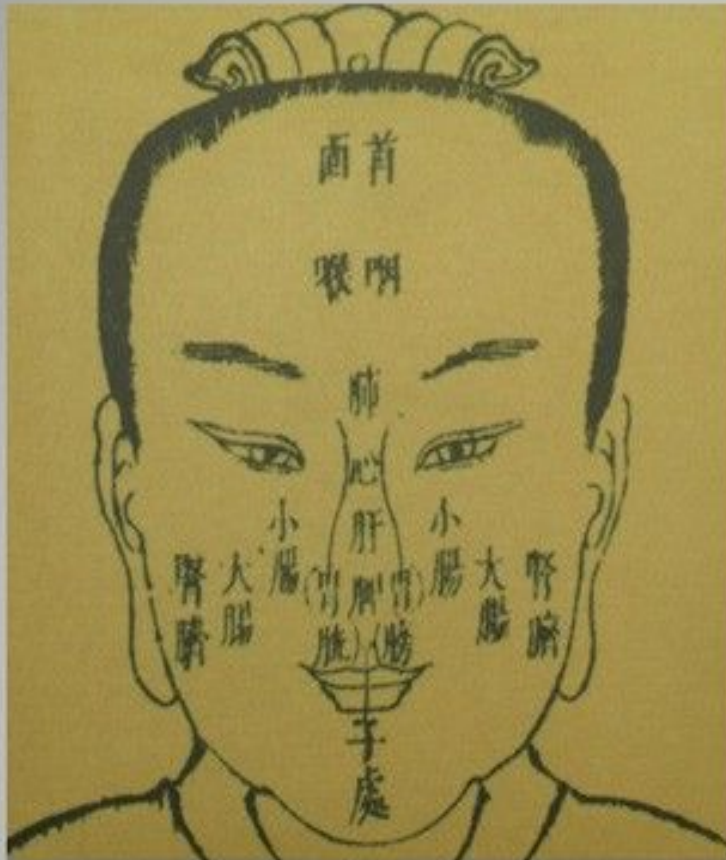


Dental



TCM Tongue Holograph





Facial Diagnosis

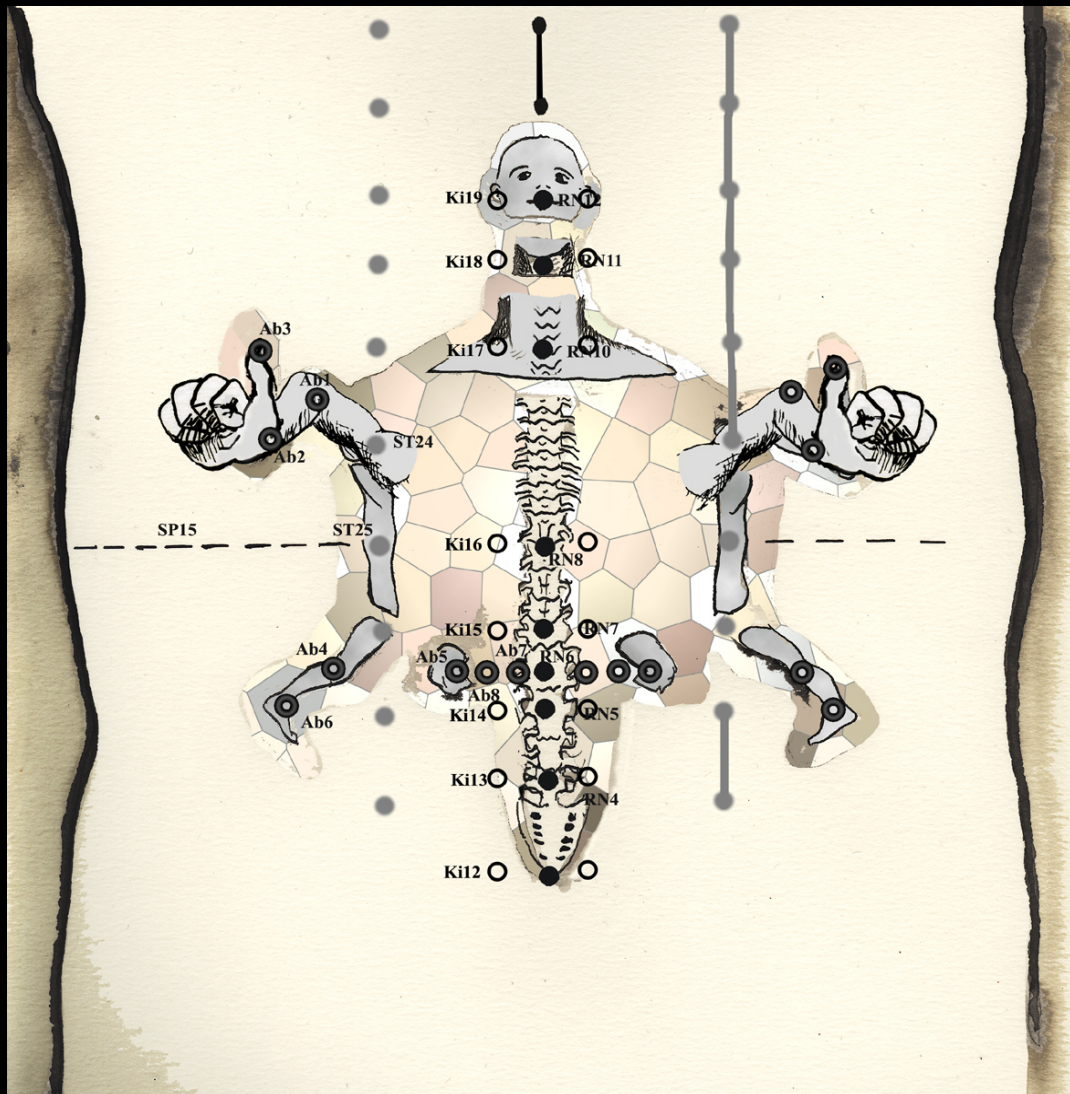
望診

In facial diagnosis, the face is regarded as an epitome of the body. Thus, it could be possible to detect a problem organ by observing the reflected area on the face.

The figure depicted is extracted from *Zhang Jiebin*, written in Ming dynasty (1368-1644).

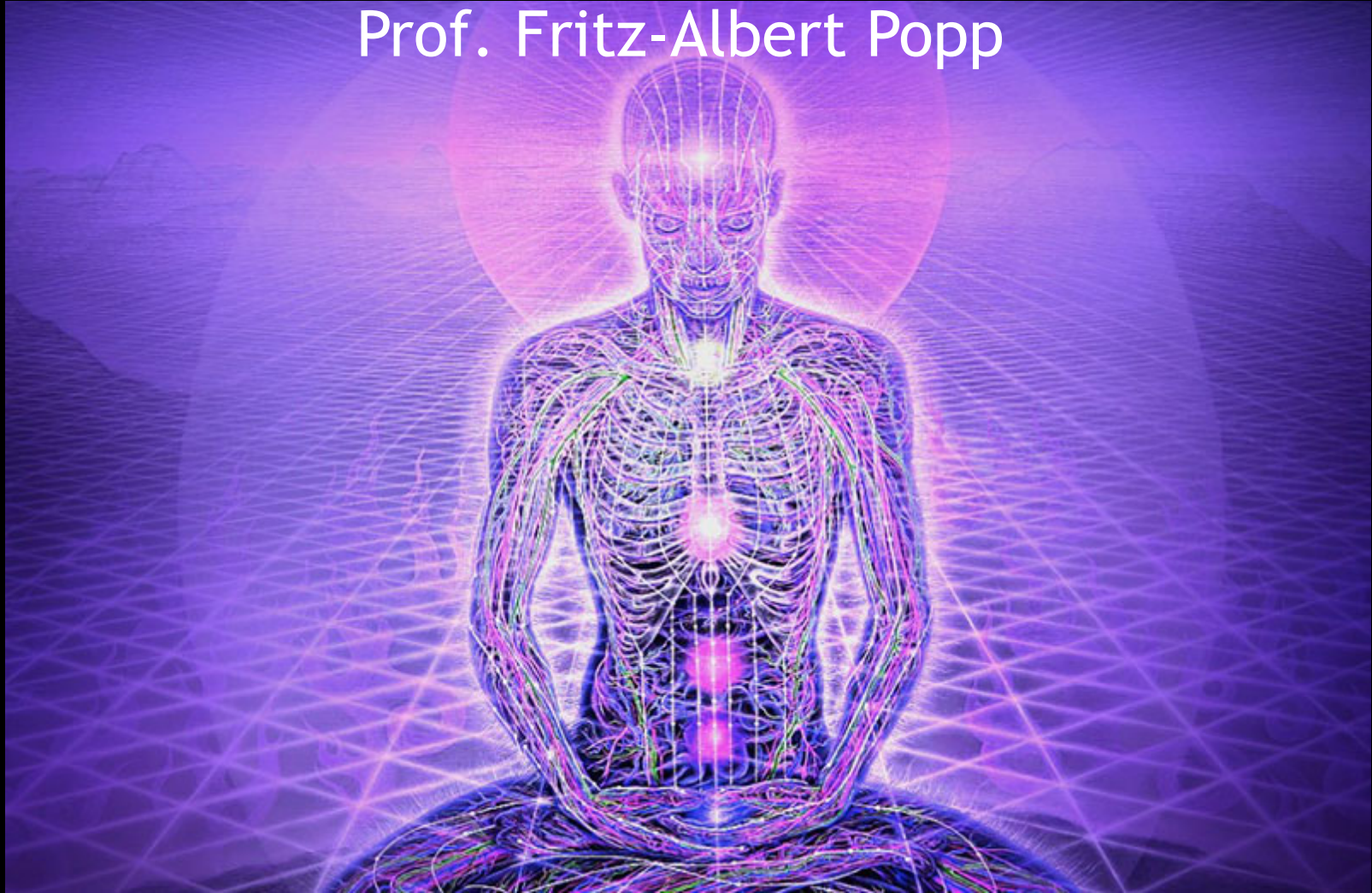


Abdominal Holograph



“We know today that man, essentially, is a being of light.”

Prof. Fritz-Albert Popp



Resources

- Energy Medicine – James Oschman
- Virtual Medicine – Keith Scott-Mumby
- Anatomy of the Spirit – Caroline Myss
- The Holographic Universe - Michael Talbot