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Making Sense of Bioelectricity

Where Ancient Wisdom meets Modern Science

Panelists

Todd Luger

- Co-chair of Health Horizons Symposium – building bridges between classical Chinese medicine, biofield science, and consciousness
- Background in acupuncture, Chinese herbal medicine, instructional design and technology

Prana Gogia

- Trained in Inner Alchemy and Ayurveda in the Siddha tradition since childhood
- Licensed practitioner of acupuncture, certified in craniosacral therapy and Reiki
- Electronic engineer with extensive experience developing electrotherapeutic healing devices for use in his clinic

John Hubacher

- Founder of Pantheon research — manufacturer of top-of-the-line electro acupuncture devices
- Kirlian photography researcher with an emphasis on the phantom leaf phenomenon

Historical Context

- The geneticists vs. the field biologists – over 100 years ago
- Field biologists hoped to develop a biology that was analogous to the findings of modern physics
- Where the biochemicals and genes in the human body were understood as both “particles” and fluctuations within a biofield
- Early geneticists rejected this view, because they felt it was a slippery slope to mysticism
- The molecular genetic model advanced more rapidly because of limitations in the technology of that era

Pioneers of Field Biology

- Harold Saxton Burr
 - Yale Anatomist who did extensive measurements of the electrical fields of living organisms starting in the 1930s
 - Developed a model of electrical fields guiding development
- Joseph Needham
 - Leading Embryologist of his day – author of an important textbook
 - Went on to write a 27-book compendium called Science and Civilization in China
 - In the volume on Chinese medicine, he speculated that the Chinese concept of Qi was an example of the biofield that regulated physiology
- Robert Becker
 - Mid 20th century researcher in the role of bioelectricity in regeneration and wound healing
 - Did extensive research on acupuncture channels in the 1970s and firmly believed they were related to his research on bioelectricity
- Michael Levin
 - A 20th century researcher who has published well over 100 papers on the role of bioelectricity and physiology.
 - His work has firmly established that there is a non-molecular regulatory mechanism in the body that plays a key role in gene expression, embryological development, pathogenesis of cancer, wound healing, and regeneration

Additional Resources

- Revisiting Burr and Northrop's "The Electro-Dynamic Theory of Life"
 - <https://link.springer.com/article/10.1007/s13752-020-00341-y> (by Michael Levin)
- Levin Labs publications on bioelectricity
 - <https://www.drmichaellevin.org/publications/bioelectricity.html>
- Blueprint for Immortality: The Electric Patterns of Life by Harold Saxton Burr
 - <https://archive.org/details/harold-saxton-burr-blueprint-for-immortality-electric-patterns-of-life>
- Science and Civilisation in China: Volume 6, Biology and Biological Technology; Part 6, Medicine by Joseph Needham
 - <https://a.co/d/gGAFExh>
- Introduction to Integrative Biophysics by Marco Bischof
 - https://www.academia.edu/13658751/Introduction_to_Integrative_Biophysics



Healthy Horizons Symposium

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