

Report

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SOLARI REPORT "FUTURE SCIENCE"

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Ulrike Granögger

# The Wave Genome

## Quantum Holography of DNA

# Credits and Links for Further Study

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## **Part 1: The Old and the New Paradigm**

### **The molecular paradigm of DNA and its limitations**

Capacitor like electronic structures of DNA

[dmrsekhar.wordpress.com/article/capacitor-like-electronic-structures-of-3ecxygf1lxcn2-33/](http://dmrsekhar.wordpress.com/article/capacitor-like-electronic-structures-of-3ecxygf1lxcn2-33/)

Picture: Cellular Water Structure

Martin Chaplin: The Importance of Cell Water

[www.i-sis.org.uk/TIOCW.php](http://www.i-sis.org.uk/TIOCW.php)

ENCODE Project

[www.encodeproject.org](http://www.encodeproject.org)

Photo: Laser Setup

[omtec.us/laser-spectrometer.html](http://omtec.us/laser-spectrometer.html)

Photo: Laser Equipment

Peter Gariaev, [www.wavegenetic.ru](http://www.wavegenetic.ru) and [eng.wavegenetic.ru](http://eng.wavegenetic.ru)

**Please watch:** Video on Quantum Field Theory

David Tong: The real building blocks of the Universe

[youtu.be/zNVQfWC\\_evg](https://youtu.be/zNVQfWC_evg)

### **Coherent light from the cell – Biophotons**

Akademgorodok – Novosibirsk Academic City

[www.amusingplanet.com/2018/01/akademgorodok-siberias-silicon-valley.html#modal-one](http://www.amusingplanet.com/2018/01/akademgorodok-siberias-silicon-valley.html#modal-one)

[www.rbth.com/science\\_and\\_tech/2016/03/28/akademgorodok-the-last-soviet-utopia-or-a-new-silicon-valley\\_579767](http://www.rbth.com/science_and_tech/2016/03/28/akademgorodok-the-last-soviet-utopia-or-a-new-silicon-valley_579767)

Alexander Gurwitsch

[en.wikipedia.org/wiki/Alexander\\_Gurwitsch](https://en.wikipedia.org/wiki/Alexander_Gurwitsch)

[21sci-tech.com/articles/summ01/Biophysics/Biophysics.html](http://21sci-tech.com/articles/summ01/Biophysics/Biophysics.html)

Fritz Albert Popp – Biophotons

Book by Fritz A. Popp: Biophotonen - Neue Horizonte in der Medizin

[www.amazon.com/Biophotonen-Horizonte-Medizin-Grundlagen-Biophotonik/dp/3830472676](http://www.amazon.com/Biophotonen-Horizonte-Medizin-Grundlagen-Biophotonik/dp/3830472676)

[www.spiegel.de/wissenschaft/mensch/biophotonen-das-raetselhafte-leuchten-allen-lebens-a-370918.html](http://www.spiegel.de/wissenschaft/mensch/biophotonen-das-raetselhafte-leuchten-allen-lebens-a-370918.html)

Emission of Mitochondrial Biophotons and their Effect on  
Electrical Activity of Membrane via Microtubules

[arxiv.org/abs/1012.3371](http://arxiv.org/abs/1012.3371) and

[arxiv.org/ftp/arxiv/papers/1012/1012.3371.pdf](http://arxiv.org/ftp/arxiv/papers/1012/1012.3371.pdf)

Biophotons, microtubules and CNS, is our brain a "holographic computer"?

[www.ncbi.nlm.nih.gov/pubmed/14962620](http://www.ncbi.nlm.nih.gov/pubmed/14962620)

Video on Biophotons and F.A. Popp, own archive

Book by Fritz A. Popp: Electromagnetic Bio-Information

[www.amazon.com/Electromagnetic-Bio-Information-Fritz-Albert-Popp/dp/0806715324](http://www.amazon.com/Electromagnetic-Bio-Information-Fritz-Albert-Popp/dp/0806715324)

### **Further Reading on Biophotons**

[www.technologyreview.com/s/422069/the-puzzling-role-of-biophotons-in-the-brain/](http://www.technologyreview.com/s/422069/the-puzzling-role-of-biophotons-in-the-brain/)

[article.sciencepublishinggroup.com/html/10.11648.j.ajop.20150305.11.html](http://article.sciencepublishinggroup.com/html/10.11648.j.ajop.20150305.11.html)

Further recommended video on Biophotons and Fritz A. Popp

[youtu.be/NfQObPCqNHY](http://youtu.be/NfQObPCqNHY)

[youtu.be/O-nz1DnPygM](http://youtu.be/O-nz1DnPygM)

Laws of Thermodynamics

[www.thoughtco.com/laws-of-thermodynamics-373307](http://www.thoughtco.com/laws-of-thermodynamics-373307)

Coherence Length of Sun Light

[energy.kth.se/compedu/webcompedu/webhelp/S9\\_Renewable\\_Energy/B5\\_Solar\\_Energy/C7/ID125\\_files/Coherence\\_length.htm](http://energy.kth.se/compedu/webcompedu/webhelp/S9_Renewable_Energy/B5_Solar_Energy/C7/ID125_files/Coherence_length.htm)

## Part 2: Basis for Quantum Holography in the Cell

### V.P. Kaznacheev – Cytopathic mirror effect

Photo: Institute of Cosmic Anthropoecology, Novosibirsk, Russia,  
own photo

Book by V.P. Kaznacheev and A.V. Trofimov: Reflections on Life and  
Intelligence on Planet Earth, [www.anthropoecology.com](http://www.anthropoecology.com)

V.P. Kaznacheev, et.al.: Distant intercellular electromagnetic interaction  
between two tissue cultures, Springer:  
[link.springer.com/article/10.1007%2F978-3-642-08342-9](http://link.springer.com/article/10.1007%2F978-3-642-08342-9) and  
[pds23.egloos.com/pds/201208/23/24/Distant\\_intercellular\\_electromagnetic  
interaction\\_between\\_two\\_tissue\\_cultures.pdf](http://pds23.egloos.com/pds/201208/23/24/Distant_intercellular_electromagnetic_interaction_between_two_tissue_cultures.pdf)

Excerpt from Tom Bearden's book

"Aids – Biogocial Warfare" describing Kaznacheev's experiments:  
[www.cheniere.org/books/aids/ch5.htm#The%20Kaznacheev%20Experiments](http://www.cheniere.org/books/aids/ch5.htm#The%20Kaznacheev%20Experiments)

### Additional recommended reading:

Non-chemical and non-contact cell-to-cell communication: a short review  
[www.ncbi.nlm.nih.gov/pmc/articles/PMC3786266/](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3786266/)

DARPA – RadioBio: What role does electromagnetic signalling have in  
biological systems  
[www.darpa.mil/news-events/2017-02-07](http://www.darpa.mil/news-events/2017-02-07)

### Dr. Peter Gariaev – Phantom DNA

[www.wavegenetics.org](http://www.wavegenetics.org)

Book by Peter Gariaev: Wave Genome  
[predmet.ru/garyaev-small.pdf](http://predmet.ru/garyaev-small.pdf)

Gariaev, Marcer, Tertishny, et.a.: The DNA Wave Biocomputer  
[www.researchgate.net/publication/228512478\\_The\\_DNA-wave-  
biocomputer](http://www.researchgate.net/publication/228512478_The_DNA-wave-biocomputer)

Image Tertishny laser: [omtec.us/emionrat.html](http://omtec.us/emionrat.html)

Light Scattering

[www.malvernpanalytical.com/en/products/technology/light-scattering](http://www.malvernpanalytical.com/en/products/technology/light-scattering)

Phantom DNA – Principles of Linguistic Wave Genetics  
[dnadecipher.com/index.php/ddj/article/viewFile/2/2](http://dnadecipher.com/index.php/ddj/article/viewFile/2/2)

Quantum Entanglement Holds DNA Together  
[www.technologyreview.com/s/419590/quantum-entanglement-holds-dna-together-say-physicists/](http://www.technologyreview.com/s/419590/quantum-entanglement-holds-dna-together-say-physicists/)

Quantum entanglement between the electron clouds  
of nucleic acids in DNA  
[arxiv.org/abs/1006.4053](http://arxiv.org/abs/1006.4053)

The DNA-Wave-Biocomputer  
[www.researchgate.net/publication/228512478\\_The\\_DNA-wave-biocomputer](http://www.researchgate.net/publication/228512478_The_DNA-wave-biocomputer)

### **Anton Zeilinger – Quantum Teleportation of Bio-Molecules**

Wave nature of Biomolecules and Fluorofullerenes  
[www.univie.ac.at/qfp/research/matterwave/TPPC60F48/index.html](http://www.univie.ac.at/qfp/research/matterwave/TPPC60F48/index.html)

Quantum interference of large organic molecules  
[www.nature.com/articles/ncomms1263.pdf](http://www.nature.com/articles/ncomms1263.pdf)

Quantum coherent-like state observed in a  
biological protein for the first time  
[phys.org/news/2015-10-quantum-coherent-like-state-biological-protein.html](http://phys.org/news/2015-10-quantum-coherent-like-state-biological-protein.html)

### **Liquid Crystals – Photonic Crystals**

Liquid Crystal Formation in Supercoiled DNA Solutions  
[ac.els-cdn.com/S0006349502752351/1-s2.0-S0006349502752351-main.pdf](http://ac.els-cdn.com/S0006349502752351/1-s2.0-S0006349502752351-main.pdf)

#### **Additional reading:**

[softbites.org/2018/02/15/discovery-of-liquid-crystals-in-short-dna/](http://softbites.org/2018/02/15/discovery-of-liquid-crystals-in-short-dna/)

Quantum Resonance in Brain Microtubules  
[resonance.is/confirmation-quantum-resonance-brain-microtubules/](http://resonance.is/confirmation-quantum-resonance-brain-microtubules/)

#### **Additional reading:**

[article.sciencepublishinggroup.com/html/10.11648.j.ajop.20150305.11.html](http://article.sciencepublishinggroup.com/html/10.11648.j.ajop.20150305.11.html)

Hydrogel Photonic Crystals  
[unisci.com/stories/20022/0418022.htm](http://unisci.com/stories/20022/0418022.htm)

### **Herbert Fröhlich – Biophonons and Fröhlich Condensates**

Book by Herbert Fröhlich: Coherent Excitations in Biological Systems  
[www.amazon.com/Coherent-Excitations-Biological-Proceedings-Sciences/dp/3642691889](http://www.amazon.com/Coherent-Excitations-Biological-Proceedings-Sciences/dp/3642691889)

Herbert Fröhlich: Evidence for Bose condensation-like excitation  
of coherent modes in biological systems

[www.sciencedirect.com/science/article/pii/037596017590300X?via%3Dihub](http://www.sciencedirect.com/science/article/pii/037596017590300X?via%3Dihub)

Macroscopic Bose Einstein Condensates

[theconversation.com/experiment-shows-einsteins-quantum-spooky-action-approaches-the-human-scale-95372](http://theconversation.com/experiment-shows-einsteins-quantum-spooky-action-approaches-the-human-scale-95372)

Mae Wan Ho: Bioenergetics and the Coherence of Organisms

[link.springer.com/chapter/10.1007/978-94-011-5878-7\\_5](http://link.springer.com/chapter/10.1007/978-94-011-5878-7_5)

Stuart Hameroff: Feasibility of Macroscopic  
quantum mechanisms in the Brain

[www.researchgate.net/publication/265072982\\_Feasibility\\_of\\_Macroscopic\\_quantum\\_mechanisms\\_in\\_the\\_Brain](http://www.researchgate.net/publication/265072982_Feasibility_of_Macroscopic_quantum_mechanisms_in_the_Brain)

### **Additional reading:**

Stuart Hameroff: Quantum Coherence in Microtubules: A Neural Basis for  
Emergent Consciousness?

[pdfs.semanticscholar.org/8cca/d4d7d9e9a813cfdcd694d3ab36f1c941e9dc.pdf](http://pdfs.semanticscholar.org/8cca/d4d7d9e9a813cfdcd694d3ab36f1c941e9dc.pdf)

### **Phonon edges of microtubules**

Vibrational Properties of Cells

[news.njit.edu/do-cells-have-exotic-vibrational-properties/](http://news.njit.edu/do-cells-have-exotic-vibrational-properties/)

Dynamical Majorana edge modes in a broad class of  
topological mechanical systems

[www.nature.com/articles/ncomms14587.pdf](http://www.nature.com/articles/ncomms14587.pdf)

Possible Superconductivity along microtubules

[www.sciencedirect.com/science/article/pii/S0956566313001590?via%3Dihub](http://www.sciencedirect.com/science/article/pii/S0956566313001590?via%3Dihub)

Video: Anirban Bandyopadhyay: Triplet resonance bands of microtubule

[youtu.be/Q\\_Jgjaj5odA](http://youtu.be/Q_Jgjaj5odA)

### **Gerald Pollack – Cellular water, liquid crystals**

Book by Gerald Pollack: The Fourth Phase of Water

[www.amazon.com/Fourth-Phase-Water-Beyond-Liquid/dp/0962689548](http://www.amazon.com/Fourth-Phase-Water-Beyond-Liquid/dp/0962689548)

Book by Gerald Pollack: Cells, Gels and the Engines of Life

[www.amazon.com/Cells-Gels-Engines-Gerald-Pollack/dp/0962689521](http://www.amazon.com/Cells-Gels-Engines-Gerald-Pollack/dp/0962689521)

Gerald Pollack – The Fourth Phase of Water, article  
[ecee.colorado.edu/~ecen5555/SourceMaterial/Pollack13.pdf](http://ecee.colorado.edu/~ecen5555/SourceMaterial/Pollack13.pdf) and  
Gerald Pollack – Exclusion Zone  
[www.pollacklab.org/research](http://www.pollacklab.org/research)

Otto Warburg: The Prime Cause and Prevention of Cancer

**Jakob Woisetschläger, Elmar Fuchs – The floating Water Bridge**

Elmar Fuchs and Jakob Woisetschläger: The floating water bridge  
[ttm-old.tugraz.at/jw/?seite=water](http://ttm-old.tugraz.at/jw/?seite=water)  
[ecfuchs.com/?page=waterbridge](http://ecfuchs.com/?page=waterbridge)

**Additional information on floating water bridge:**

[www.jove.com/video/51819/the-preparation-electrohydrodynamic-bridges-from-polar-dielectric](http://www.jove.com/video/51819/the-preparation-electrohydrodynamic-bridges-from-polar-dielectric)  
[www.nature.com/news/2007/031007/full/449517a.html](http://www.nature.com/news/2007/031007/full/449517a.html)

**Mechanobiology, Photonic Crystals**

Mechanobiology  
[www.mechanobio.info](http://www.mechanobio.info)

Metamaterials  
[www.metamaterial.com](http://www.metamaterial.com)

Georgia Institute of Technology:  
Hydrogel Nano Particles – Photonic Crystals  
[www.cst.com/solutions/article/photonic-crystal-simulation](http://www.cst.com/solutions/article/photonic-crystal-simulation)

Photonic Computers  
[www.technologyreview.com/s/409377/guiding-light/](http://www.technologyreview.com/s/409377/guiding-light/)

Brain-like photonic computer microchips  
[www.ox.ac.uk/news/2017-09-28-scientists-create-brain-photonic-computer-microchips#](http://www.ox.ac.uk/news/2017-09-28-scientists-create-brain-photonic-computer-microchips#)

**Additional information on Neuromorphic Computing:**

[www.digitaltrends.com/computing/intel-neuromorphic-quantum-computing-loihi-tangle/](http://www.digitaltrends.com/computing/intel-neuromorphic-quantum-computing-loihi-tangle/)

## **Quantum Field DNA, DNA Holography**

Peter Gariaev, et.a.: The DNA Wave Biocomputer

[www.researchgate.net/publication/228512478\\_The\\_DNA-wave-biocomputer](http://www.researchgate.net/publication/228512478_The_DNA-wave-biocomputer)

DNA is a fractal antenna in electromagnetic fields

[www.tandfonline.com/doi/figure/10.3109/09553002.2011.538130?scroll=top&needAccess=true](http://www.tandfonline.com/doi/figure/10.3109/09553002.2011.538130?scroll=top&needAccess=true)

Image: Quantum Hologram of a single photon

[phys.org/news/2016-07-birth-quantum-holographymaking-holograms-particles.html](http://phys.org/news/2016-07-birth-quantum-holographymaking-holograms-particles.html)

Images of DNA Solitons from Peter Gariaev: Wave Genome (in Russian)

[predmet.ru/garyaev-small.pdf](http://predmet.ru/garyaev-small.pdf)

### **Further reading on Solitons**

[arxiv.org/ftp/arxiv/papers/1610/1610.04855.pdf](http://arxiv.org/ftp/arxiv/papers/1610/1610.04855.pdf)

Image: Double Helix Nebula in Sagittarius A\*

[www.spitzer.caltech.edu/images/2305-sig06-004-Double-Helix-Nebula](http://www.spitzer.caltech.edu/images/2305-sig06-004-Double-Helix-Nebula)

### **Experiments by Guido Ebner and Heinz Schürch**

Time reversal of Evolution

Patent:

[patentimages.storage.googleapis.com/b0/7d/f5/419a39ae58d092/EP0351357B1.pdf](http://patentimages.storage.googleapis.com/b0/7d/f5/419a39ae58d092/EP0351357B1.pdf)

Video and Images from

[youtu.be/uq\\_m4UkXLDM](http://youtu.be/uq_m4UkXLDM)

[www.urzeit-code.com](http://www.urzeit-code.com)

[www.psiram.com/de/index.php/Urzeit-Code](http://www.psiram.com/de/index.php/Urzeit-Code)

### **Further reading (in German):**

Luc Bürgin: Der Urzeit-Code

[www.amazon.de/Urzeit-Code-Sonderausgabe-ökologische-Alternative-umstrittenen/dp/3776650419](http://www.amazon.de/Urzeit-Code-Sonderausgabe-ökologische-Alternative-umstrittenen/dp/3776650419)



## Part 3: The Linguistic Genome

### DNA is a Fractal

Article by Ulrike Granögger: Holographie der DNA in: Global Scaling: Basis eines neuen wissenschaftlichen Weltbildes, 2008

Chaos Game Analysis of Genomes

[petridishtalk.com/tag/chaos-game/](http://petridishtalk.com/tag/chaos-game/)

[www.sciencedirect.com/science/article/pii/S167202290402025X#f0005](http://www.sciencedirect.com/science/article/pii/S167202290402025X#f0005)

Joel Jeffrey: Chaos game representation of gene structure,  
in Nucleic Acids Research, Vol. 18, No. 8 2163

CGR of human collagen

[www.lifescience.com/bioinformatics/chaos-game-representation](http://www.lifescience.com/bioinformatics/chaos-game-representation)

### Spatial Organisation of the Chromosome

The Human Genome in 3 Dimensions

[www.wired.com/2009/10/fractal-genome/](http://www.wired.com/2009/10/fractal-genome/)

Image: Hilbert Curve

[en.wikipedia.org/wiki/Hilbert\\_curve](http://en.wikipedia.org/wiki/Hilbert_curve)

DNA as fractal antenna metamaterial

Image: [www.fractenna.com](http://www.fractenna.com)

Synthetic Bacteria

[www.jcvi.org/first-self-replicating-synthetic-bacterial-cell](http://www.jcvi.org/first-self-replicating-synthetic-bacterial-cell)

### DNA structured like human language texts – Zipf Distribution

Dickens "David Coperfield" in Damina Zanette:

Zipf's law and the creation of musical context

[arxiv.org/pdf/cs/0406015.pdf](http://arxiv.org/pdf/cs/0406015.pdf)

Wikipedia Zipf distribution

[en.wikipedia.org/wiki/Zipf%27s\\_law](http://en.wikipedia.org/wiki/Zipf%27s_law)

Book by Richard Dawkins: The Selfish Gene

[www.amazon.com/Selfish-Gene-Anniversary-Landmark-Science/dp/0198788606](http://www.amazon.com/Selfish-Gene-Anniversary-Landmark-Science/dp/0198788606)

## **Computational Linguistics and Cognitive Computing**

IBM Watson Supercomputer

[www.ibm.com/watson/about/index.html](http://www.ibm.com/watson/about/index.html)

Brain-like Self-Learning Chips

[newsroom.intel.com/editorials/intels-new-self-learning-chip-promises-accelerate-artificial-intelligence/](http://newsroom.intel.com/editorials/intels-new-self-learning-chip-promises-accelerate-artificial-intelligence/)  
[www.forbes.com/sites/aarontilley/2017/09/25/intel-loihi-neuromorphic-chip/#66fa13276fac](http://www.forbes.com/sites/aarontilley/2017/09/25/intel-loihi-neuromorphic-chip/#66fa13276fac)

Neuromorphic Chips and Blue Brain Project

[ec.europa.eu/digital-single-market/en/news/two-new-neuromorphic-chips-developed-human-brain-project](http://ec.europa.eu/digital-single-market/en/news/two-new-neuromorphic-chips-developed-human-brain-project)

Google Deep Mind

[deepmind.com](http://deepmind.com)

IBM Summit Supercomputer

[www.ibm.com/thought-leadership/summit-supercomputer/](http://www.ibm.com/thought-leadership/summit-supercomputer/)

IBM Project Debater

[www.research.ibm.com/artificial-intelligence/project-debater/](http://www.research.ibm.com/artificial-intelligence/project-debater/)  
[www.extremetech.com/extreme/272650-ibms-project-debater-to-set-stage-for-new-kind-of-civil-society](http://www.extremetech.com/extreme/272650-ibms-project-debater-to-set-stage-for-new-kind-of-civil-society)

Human Brain Project – Blue Brain Project

[www.humanbrainproject.eu](http://www.humanbrainproject.eu)

Blue Brain team discovers a multi-dimensional universe in brain networks

[www.eurekalert.org/pub\\_releases/2017-06/f-bbt060617.php](http://www.eurekalert.org/pub_releases/2017-06/f-bbt060617.php)  
[www.frontiersin.org/articles/10.3389/fncom.2017.00048/full](http://www.frontiersin.org/articles/10.3389/fncom.2017.00048/full)

Fractal Computing

Design and Construction of a Brain-Like Computer

[www.mdpi.com/2078-2489/5/1/28](http://www.mdpi.com/2078-2489/5/1/28)

**Is this an old story?**

Gustav Meyrinck: Golem

[www.amazon.com/Golem-phantastischer-Horror-Papier-German-ebook/dp/B0105U6558](http://www.amazon.com/Golem-phantastischer-Horror-Papier-German-ebook/dp/B0105U6558)

Film (1920) Der Golem  
[www.imdb.com/title/tt0004026/](http://www.imdb.com/title/tt0004026/)

J.J. Hurtak, Desiree Hurtak:  
Pistis Sophia – A Coptic Text of Gnosis with Commentary  
[www.pistissophia.org](http://www.pistissophia.org)

Demiurge - Jaldabaoth  
[en.wikipedia.org/wiki/Demiurge](http://en.wikipedia.org/wiki/Demiurge)

Film (2013) Oblivion  
[www.imdb.com/title/tt1483013/](http://www.imdb.com/title/tt1483013/)

## **Part 4: Experiments to Shift the Paradigm**

### **Peter Gariaev and Laser Modulation of the Genome**

Yu. N. Denisyuk: Properties of holograms recorded in a material with quadratic nonlinearity  
[www.osapublishing.org/viewmedia.cfm?r=1&rwjcode=jot&uri=jot-73-7-429&seq=0](http://www.osapublishing.org/viewmedia.cfm?r=1&rwjcode=jot&uri=jot-73-7-429&seq=0)

Gariaev Experiments  
Peter Gariaev, et.al.: Some Aspects of Wave Genetics, Holographic Processes & Information Molecule in DNA Decipher Journal Vol 5 No. 3 (2015)  
[www.researchgate.net/publication/292411121\\_Some\\_Aspects\\_of\\_Wave\\_Gene\\_Transmission](http://www.researchgate.net/publication/292411121_Some_Aspects_of_Wave_Gene_Transmission)

Video on youtube showing Laser device  
[www.youtube.com/watch?v=9I6mBSDqzyI](http://www.youtube.com/watch?v=9I6mBSDqzyI)

Peter Gariaev, et.al.: Principles of Linguistic-Wave Genetics in DNA Decipher Journal Vol. 1 No. 1 (2011)  
[www.researchgate.net/publication/228926241\\_Principles\\_of\\_Linguistic-Wave\\_Genetics](http://www.researchgate.net/publication/228926241_Principles_of_Linguistic-Wave_Genetics)

### **Wave Regeneration of Pancreas**

Kokaya, N.G. & Kokaya, A.A. & Mukhina, I.V.. (2011). The Effect of Corrective and Preventive Electromagnetic Radiation Modulated by Biostructures on the Course of Acute Insulin Insufficiency in Rats. *Sovremennye Tehnologii v Medicine*. 2011. 11-15.

[cyberleninka.ru/article/n/vliyanie-korrigiruyuschego-i-preventivnogo-vozdeystviya-elektromagnitnogo-izlucheniya-modulirovannogo-biostrukturami-na-techenie](http://cyberleninka.ru/article/n/vliyanie-korrigiruyuschego-i-preventivnogo-vozdeystviya-elektromagnitnogo-izlucheniya-modulirovannogo-biostrukturami-na-techenie)

P.P. Gariaev, et.al.: Effect of electromagnetic radiation modulated by biostructures on the course of alloxan-induced diabetes mellitus in rats  
[link.springer.com/article/10.1007%2Fs10517-007-0049-3](http://link.springer.com/article/10.1007%2Fs10517-007-0049-3)

### **Wave Immunity**

DVD "The Wave Genome", published by the Academy For Future Science,  
Europe shop.keysofenoch.eu

### **Additional study:**

[www.bezpeka.org/en/lib/probabilistic and linguistic representations of cancer and hiv.html](http://www.bezpeka.org/en/lib/probabilistic%20and%20linguistic%20representations%20of%20cancer%20and%20hiv.html)

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DARPA: "Prepare" Dialing Up the Body's Defenses Against Public Health and National Security Threats

[www.darpa.mil/news-events/2018-05-25](http://www.darpa.mil/news-events/2018-05-25)

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### **Luc Montagnier – Materialising DNA**

Luc Montagnier, et. al: Transduction of DNA information through water and electromagnetic waves

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Lecture by Luc Montagnier at Lindau Nobel Laureates Meeting 2010

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### **Recommended additional study:**

[www.youtube.com/watch?v=R8VyUsVOic0](http://www.youtube.com/watch?v=R8VyUsVOic0)

## **Tsian Kanchzhen – Microwave Genetic Engineering**

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