

Psychology from a Quantum Physics Perspective. Tomorrow's Medicine

Fabien DE MEESTER*

TsimTsoum Institute, Ulica Gołębia 2, Kraków 31-007, Poland.

*Correspondence:

De Meester F, TsimTsoum Institute, Ulica Gołębia 2, Kraków 31-007, Poland.

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ABSTRACT

This article is a follow-up of the previous one entitled “Od Ciała (Columbus) do Umysłu (Copernicus) Koncepcje. Identyfikowanie I Lokalizowanie Umysłu”, Psychologia w Praktyce 1/2018(#7), 9-15 (www.psychologiapraktyce.pl), describing the basic principles of biological Information Technology (bIT), ie consciousness & mind at cell membrane level, and their ruling of behavior and evolution of all life species on Earth. The Mind came first, the Body followed. Here, we extend on the evolving field of Psychophysics, recognizing the essential and urgent need for a drastic upward leap of current medical practices, from the 17-18th century classic Newtonian “particle / chemical molecule” view to the 19-20th modern Einsteinian “wave / physical quantum” view of the world / reality we live in. The Body is a holographic projection of the Mind. Psychology & Energy Medicine, ie Psychophysics, are mind-keys to body-health promotion & disease prevention (not to mention treatment/cure). Just as Humans are self-conscious, Psychophysics is the future of Human Medicine. Any and all sound Health Care Professionals (HCPs) will – one day or another – follow the logic developed in this second article.

The doctor of the future will give no medicine, but will interest his patients in the care of the human frame, in diet and in the cause and prevention of disease. **Thomas Edison**




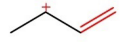
Keywords

Biological Information Technology, Mind, Behavior, Psychophysics.

Introduction

When Schroedinger came along back in the early 1900s with his “wave/particle” duality concept for the Electron, he solved the “information/matter” enigma that was ramping in Physics for as long as Newton had discovered gravity back in the 1600s. Yet, at that early time of inception of Psychology, Schroedinger had most probably not realized that he had thrown the theoretical basis for the “mind/body” duality, characteristic of all living species on Earth. As Einstein puts it, all in the Universe is about “Vibration”. It is this very “Electron” that has evolved – in Darwinian terms – from “wave/particle” all the way down to “mind/body”. And, since then, of course, Einstein came up with his famous $E=mc^2$ equation, thereby unifying Energy, Matter, and Time/Space. With all this historical ingenuity in mind, one can hardly miss the next window of opportunity for Psychology as an evidence-based Science, ie to help turning Homo sapiens (the body part) into Homo modestis

(the mind part), a nongenetically- encoded mutation essential and urgent for Humanity to keep progressing. Information/mind came/ comes first. Matter/Body followed/follows.

Wave	Mind		↔		1000	Vibration
Particle	Body		↔		1	Electronic

The wave-particle duality of the electron allows for mind-related physics & body-related chemistry to proceed independently – at fundamentally different speeds, ie physics proceeds some 1000x faster than chemistry – on the same carrier, ie cell membrane unsaturated fatty acids (allylic double bond).

Mind/Body resonance

One cannot dissociate Mind from Body as one cannot dissociate Homo modestis from Homo sapiens, but one can/should use the first to influence the latter. This approach is sometimes misunderstood because it is all about influencing the behavior or psychophysics / phenotype of the very same entity or biochemistry / genotype. Modern physics has shown that the two states resonate at a speed ($1E44s^{-1}$) faster than light speed itself and that – irrespectively of the established fact that we spend 50% of our time on Earth as the holographic image (mind) of ourselves (body) – our visible

physiological sensors (eyes, ears, etc) perceive the visible parts only, ie the body. The non-visible parts though, ie the mind, play a crucial role – yet still unconsciously for most – at defining the ultimate outcome. Sensitive clinical measurements (eg SQUID) [1] have definitely prove the existence of a magnetic information field extending out and up to a couple of meters around us. We may sometimes feel it when in company / groups without really paying attention to it, yet our pet friends may have find their own way to a selective advantage of dwelling with us, contributing to each other mind/body health benefits.

Imprinting/Downloading the Mind

In the JAN/FEB 2018 issue of PwP, we have seen how cell membrane fatty acids contribute to the forgotten memory (RAM/heart black box), the processor (CPU/brain astrocytes), and the expression vector (ROM/red blood cells to/from peripheral organs/tissues) to elaborate in fine on behavior [2]. Cell membrane unsaturated fatty acids or – better say – their allylic double bond – have the ability to absorb and emit tytes of information (-1,0,+1) in a fractal-like manner [3]. From there, it becomes obvious that – at the difference of the carrier – bIT (biological Information Technology) is about and evolves on all but similar principles to in-silico IT (Information Technology), ie electron wave-particle duality. Imprinting/downloading the mind therefore comes down to encoding/transmitting cell membrane fatty acids tytes, consciously and/or un-consciously, and – therefore – fast evolving IT knowledge / applications do apply to bIT. A SWOT analysis may then be appropriate in terms of evaluating the Value of the synergy at the IT / bIT interface.

State of the Art

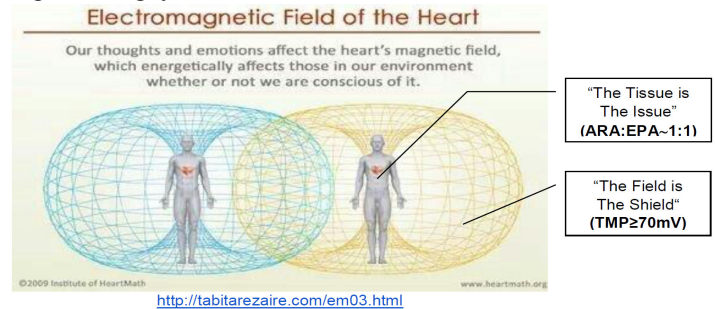
Excluding politico-military developments, the state-of-the-art in bIT in rather poorly scientifically referenced at present stage of application development. Either, it comes from empirical observations (eg health benefits of pets, placebo effect of medicines, electro-magnetic field assisted-medicine, etc) or research/clinical centers (electron spin resonances, electron encephalogram, etc).

Organ/Tissue Cells	Circulating Cells
Heart (RAM), Brain (CPU)	Mind/RBC (ROM)
Schumann Frequencies Resonance	Geomagnetic Field Resonance
7.83, 14.07, 20.25, 26.41, 32.45Hz	11.79, 16.67, 23.58, 30.80Hz

Bio-photons are the most notable bosons or force-carrying particles, and are responsible for the entire low frequencies magnetic spectrum, interacting with immobilized organ/tissue cells (Schumann harmonics or Yang Input) and circulating cells (geomagnetic field harmonics or Yin Input) [4].

The low frequencies magnetic spectrum has the ability to interact with the fatty acids-made double leaflet membrane of the 100 trillion cells the human body is made of, whose about 25% are circulating as red blood cells (RBC) and immune defensive cells (IDC) and about 75% are peripheral organ/tissue cells. Cellular membrane entrainment through pulse phasing throughout the entire body is undoubtedly the most critical life dynamic action of Earth-derived magnetic fields on all Earth-based life species. A compromised

magnetic field in that range of low frequencies (Earth changing geomagnetism, Man-made electromagnetism smog) is reportedly leading to the loss of natural entrainment due to interferences and to an all series of ill-health syndromes (lowering TMP [5], flocking RBC) which may eventually deteriorate to major mind-related diseases, ie addictions – including to food (overweight & obesity), depression, psychiatric disorders.



The body magnetic field (the mind) extends up to 3-4 meters outside the physical body as a result of the electron-spin based bIT activity playing around in RBCs unsaturated fatty acids and at peripheral organ/tissue cell membrane level, the heart Boolean gates playing a major role. As a result, the mind/physical body produces a measurable Earth-type geomagnetic field/mind (Gaia). The circulating hemoglobin/iron-loaded red blood cells (RBCs/Body Respiration) are diamagnetic (see table below).

Fe(II) ³ O ₂	↔	Fe(II) ¹ O ₂	↔	Fe(III) ⁰ O ₂ ⁻	↔	Fe(IV) ⁰ O ₂ ²⁻
Triplet Oxygen		Singlet Oxygen		Superoxide Ion		Peroxide Ion
Relaxation ⁷		Mind		Body		Stress 4
Low E/O ₂		High E/O ₂		Higher E/O ₂		Highest E/O ₂
Paramagnetic		Diamagnetic		Diamagnetic		Paramagnetic

Hemoglobin in red blood cells (RBC-HbO₂) adopts a number of possible electronic configurations depending on environmental/physiological conditions. Under normal conditions, body/mind respiration is diamagnetic (no resulting magnetic fields).

Bio-feedback electroencephalograms (EEG) are commonly used to record/stimulate brain activity in psychological patients. They basically record brain waves which at membrane level translates into fatty acid vibrations/translations, themselves depending on the number of allylic double bonds of the specifically excited fatty acids.

#db	MUFA	EFA		HUFA		
	1	2	3	4	5	6
FA	OA	LA	ALA	AA	EPA	DHA
	C18:1ω9	C18:2ω6	C18:3ω3	C20:4ω6	C20:5ω3	C22:6ω3
ν(Hz) Calc.	1.8	3.2	5.8	10.5	19.0	34.0
ν(Hz) Obs.	0.2-3	3-8	8-12	8-12	12-27	>27
Name	delta	theta(*)		alpha	beta	gamma

Double leaflet cell membrane fatty acids and their expected/calculated translation/vibration resonances along Schumann frequency resonances, based on their respective number of allylic double bonds. MUFA: Mono-Unsaturated Fatty Acids, EFA: Essential Fatty Acids, HUFA: Highly

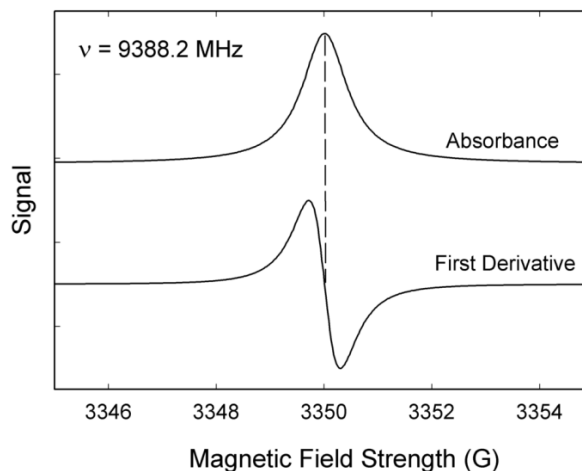
Unsaturated Fatty Acids, #db: number of allylic double bonds, FA: Fatty Acids, OA: Oleic Acid, LA: Linoleic Acid, ALA: Alpha-Linolenic Acid, AA: Arachidonic Acid, EPA: Eicosa-Pentaenoic Acid, DHA: Docosa-Hexaenoic Acid. (*)ALA is not normally present in animal cell membranes; LA & CHL (cholesterol) appears as the evolutionary substitute for the characteristic #db=3 Boolean gate in biological Information Technology (bIT), centered at $\pm 8\text{Hz}$ in a standard EEG and matching Schumann 1st harmonic resonance frequency (7.83Hz).

Magnetic fields are the secret weapons of Nature to control the Mind of the Universe, Life in particular, in its deepest core, ie the dual wave/particle electron. Magnetic fields interact first and foremost with the Mind as the Body is virtually transparent to magnetic field. However, the Mind resonates with the Body and so-doing instruct it about what to do; the Body – on the other hand – bio-feed backs the Mind on the result/consequence of carrying-out the instruction. Electrons are little vortex magnets all by themselves which – because of their extremely low mass (me: $9.11\text{E}-31\text{Kg}$) – behave as particle and/or wave depending on their environment. When located in π -orbitals of double chemical bonds – a characteristic of the fatty acid allylic double bond – they behave as waves and – in fine – informions; their dipole orientation is sensitive to surrounding magnetic fields in a way that an allylic double bond has three energy levels (-1,0,+1) depending on the orientation of the mutually interacting electron dipoles (spins) located on each carbon atom of the allylic double bond. Using an appropriate magnetic field, fatty acids allylic double bonds (the Mind) can therefore be encoded just as routinely done in-silico (computer chips) or on any other appropriate support (eg. CD-disk) using a perpendicular coherent electric field (eg. Laser light). Turning someone’s Mind from Devil to Hero may eventually come down – therefore – to instruct someone’s Mind of a Code of Conduct in an appropriate magnetic field. The two sides of the razor as for each new tool. Ethics is essential and becomes urgent as the barriers to access the technology are falling apart at a pretty fast pace.

Of course, the brain (CPU)/heart (RAM) are barriers to environmental mind-bore instructions, but – in view of redundant criminal acts popping up here & there, now & then, one cannot avoid raising concerns against all-too-common manifestations of violence of any sort (physical, social, sexual, psychological, medical, name them) in front of age-independent weak/not-necessarily-aware individuals bathing in most common / current strong magnetic fields (cell phones, laptops) / electromagnetic smog (electric supply, microwaves, tele-communication tools) [8].

SWOT Analysis (Energy Medicine)

As Homo modestis departs from Homo sapiens for the sake of Humanity, it becomes clearer that the brain is at risk of developing chronic degenerative diseases. It classically starts with mild depressive episodes which – under inappropriate environmental conditions (eg $\Omega 6/3 > 1$) – may ignite chronic tissue inflammation and ultimately result in clinical symptoms of more serious conditions. Depression though is key to Creativity. The secret therefore appears to reside in the learning of the value of being depressed, if only episodically.



Electron spin resonance or electronic paramagnetic resonance - typical absorption spectrum & 1st derivative obtained at a fixed microwave frequency (9388.2MHz~10GHz) of a sample submitted to an external static increasing magnetic field ($\pm 3350\text{G} \sim 0.335\text{T}$) typical of those found in cell phones. (https://en.wikipedia.org/wiki/Electron_paramagnetic_resonance)

Homo sapiens		Homo modestis
Body	$10\text{E}44\text{s}^{-1}$ \leftrightarrow	Mind
Chemistry		Physics
Visible spectrum Daylight frequencies Photons		Invisible spectrum Magnetic fields Biophotons
Mirror image Consciousness Medication		Meditation Self-consciousness Magnetic fields
Tissue Omega-6/3 Imbalance Syndrome	Diseases	Magnetic Field Deficiency Syndrome
(TBL) ARA/EPA~1/1	Prevention	(RBC) $\text{TMP} \geq 70\text{mV}$
Newtonian Medicine	Treatment	Energy Medicine

Body/Mind Resonance versus Health Promotion & Disease Prevention.

The two approaches are complimentary and additive. However, one could also playing around, eg protect the body (ARA/EPA~1) while inducing a pseudo-depressive creative mind (no PEMF) in favor of Homo modestis. TBL: Total Blood Lipids, ARA: Arachidonic Acid, EPA: Eicosapentaenoic Acid, RBC: Red Blood Cells, TMP: Trans-Membrane Potential.

Strength

- Non-invasive health promotion & disease prevention.
- Mind \rightarrow Body approach of energy medicine.

Weakness

- Sensitivity to electromagnetic smog.
- Supplementary medicine. PEMF, Magnetite.

Opportunity

- Mind-erasing in blood samples prior to storage/transfusion.
- Mind-encoding in education/rehabilitation \rightarrow Code of Conduct.

Threat

- (Un)-conscious mind-encoding/downloading.
- Manipulation of brain (CPU) / heart (RAM) \rightarrow brain/heart-wash.

Opportunity/threat reach of magnetic fields

EMF Strength	Occurrence	Function at Reach	Entraining / Encoding Frequencies
± 0.5G	Earth geomagnetic fields	Mind health / balance, physical phasing entrainment / psychological sense of belonging.	1-30Hz (bIT)
± 0.5T	Man-made magnets	Mind encoding / downloading / erasing, education / rehabilitation.	1-5GHz (IT)

Note: Earth EMF strength has naturally decreased by some 80% (from ± 2.5 to ± 0.5G) over the past 4,000 years, supporting modern two-fold recommendation to (1) supplement the Mind with an Earth-like geomagnetic pulse EMF and (2) supplement the Body with an antenna receptor / amplifier, eg magnetite. 1T = 10,000G.

Psychological meaning

In humans, the human/hero part/side of things taking ever more control on behavior, ie the phenotype, it becomes ever more essential to source means which can absorb the stress that is resulting from the filtration process at heart level. Giving away has a cost. Pets appears – if only from observation – ideal models to be/become exactly that. They typically hug with their owners and, as such, are capable of absorbing the negative counterpart of any positive/bright side of any complex set of digitalized information resulting from a characteristic human/heroic cognitive process. On the other hand, their cognitive capacity being nihil or fairly limited, pets actually enjoy the love-process of cuddling while absorbing and dissipating the resulting dark side of their lovers, ie they are capable of dissipating the received information with no harm/stress at physiological level.

The mechanism involved in the transfer of bio-information (tytes) is similar to that at the basis of time/space reference and to that that applies to the transfer of standard in-silico digitalized information (bytes), ie unconscious transfer and absorption of tytes capable of jumping from one to another close-by living subjects just as they can field-transfer from the cosmos to any such subject dwelling in the same time/space environment. Star dust. Ever more complex though, as Evolution keeps its way. The substrate of the circulating mind has been identified and located, ie red blood cells. Deciphering the mind code is well on its way. Time has come for late bloomers to switch-on their cognitive brain and to start enjoying the challenge leading all the way from Homo sapiens to Homo modestis.

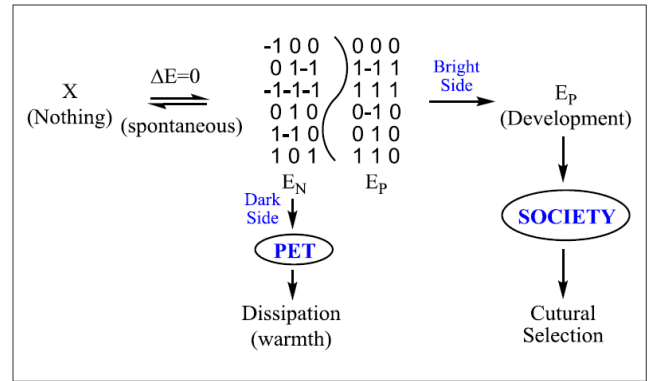


Cuddle a dog and depression departs (<https://www.whollyhealthync.com/5649/healthwisedsdogs-empathy-brings-healing-to-depressed/>).

Swapping microbes with your dog (<http://humanfoodproject.com/swap-pingmicrobes-with-your-dog/>).

Thanks to their inability of analyzing cell membrane-carrying

complex digitalized bio-information (tytes) [9], pets have the ability to absorb and dissipate the dark side of any and all thoughts at no cost, yet at the benefit of being culturally/humanly selected (below information / energy scheme). In return, humans remain with the bright side of their thoughts and Humanity keeps progressing. Cuddling pets, through their own EMF – most probably represents the most single ideal way of rejuvenating – or perhaps of initiating – love [10] as a most noble feeling within and among humans. For sure, pets will enjoy it, too.



An idea is naturally spontaneous ($\Delta E=0$) at vibration level (cell membrane allylic double bonds), leaving a transient imprint of both dark & bright sides – here depicted as the 3 possible tytes combinations on each of the 6 allylic double bonds of a characteristic DHA molecule.

Note: there is no need for pairing of tytes → no mirror image of vibration waves/tytes configurations.

Medical ethic

The benefit of the Newtonian medical approach for the treatment of modern chronic degenerative diseases becomes ever more blur as one progresses in the understanding of their origins, ie the necessity of an evolutionary leap from Homo sapiens to Homo modestis. The fact of the matter is that there is no choice. It is scientifically established that Homo sapiens is facing an evolutionary dead-end. Cultural – as opposed to Natural – Evolution is taking over the lead and the Mind is at risk. Modern chronic degenerative diseases, eg obesity, depression, bi-polar & time/space disorders¹¹, are all harbingers of the on-going transition. The Mind dictates the Body behavior and, in fine, health & diseases. Time has come to change Mind in medical practices, indeed.

Spiritual tentative conclusion

On a more spiritual note, if God is a self-fueled political concept purposely elaborated to lead people from their most single unique weakness, ie self-consciousness, then what in the absence of God? Are we truly irrelevant? Perhaps – yes – as far as the Body is concerned. Homo sapiens is facing an evolutionary dead-end; chronic degenerative diseases are rocketing, causing 85% of all deaths worldwide. A critical threshold has been passed; non-communicable diseases have become communicable, socially and/or epigenetically. Obesity is a mind disease. BMI, the long established Body Mass Index has been re-coined Body Mind Index [12].

If we are star dusts and do resonate with the Cosmos, then the mind comes first. The body follows. In all life-species, the mind has to do with unsaturated fatty acids – the allylic double bond – electron spin vibration resonance. The mind naturally works similarly to an ESR (electron spin resonance) spectrophotometer in a sci-tech laboratory, yet at a far lower energy (amplitude & frequency). It resonates at a determined/precise frequency of an electromagnetic wave (eg sunlight) in a determined/precise electromagnetic field (eg geomagnetic field). Singularity of bIT & IT may well be much closer in time/space than one may attempt to think of it comfortably [13]...

Acknowledgment

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