

The Value of Special Human Magnetoreceptors

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ABSTRACT

Using an example of an accurate prediction of the 7.2 strong earthquake in New Zealand on April 24, 2023, the existence of special human magnetoreception is analyzed. Under the action of non-invasive low-frequency electromagnetic waves, assuming the existence of iron-copper ion channel dominant magnetoreceptors in the human body, the special human magnetoreceptor field produces a step function of neuronal spikes, both in terms of membrane conductance and membrane voltage, and in Neurospike train The amount of information loaded by action potentials is much stronger than that of the Hodgkin-Huxley sodium-potassium ion channel. How human magnetoreception calculates epicenter localization and estimates magnitude can be a frontier topic in bioinformatics as well as brain science coding-decoding.

Keywords: Human Magnetic Perception; Earthquake Precursors; Neural Spike Trains, Ion Channels; Bayesian Algorithm; Winner Take all Mechanism

Abbreviations: TTFS: Time-To-First Spike; Cry: Cryptochrome; WTA: Winner-Takes-All

Introduction

As we all know, the human senses have five senses, namely vision, hearing, smell, touch and taste, however, there is another important function in the human senses - that is magnetic sensor, and some animals have excellent Magnetic perception, such as migratory birds, turtles, elephants, ants, etc., while most of the human population Magnetic sensor is extremely insensitive to or has The majority of the human population is either extremely insensitive or completely degraded. In 2021, neuroscientists discovered the existence of a very sensitive natural biological compass in the robin brain, initially unraveling the nature's mystery of how migratory birds navigate their annual long-distance migrations. [1] If migratory birds rely on the photoelectric sensing ability of the iron-sulfur protein MagR combined with cryptochrome (Cry) in the body, what are the characteristics of the magnetoreceptors in the human body? China's 5,000-year-old civilization has inherited the essence of three ancient cultures - the human meridian system, acupuncture, and qigong. Although life scientists have not yet searched for evidence of the existence of the human meridian system from modern medical experimental data, the healing effects of acupuncture and qigong have been confirmed by numer-

ous medical records. I believe that the posture of a qigong practitioner holding an invisible "balloon" between his palms is like two terminals of a human magnetic receptor, and the "qi" that travels between the two palms is actually a micro-electromagnetic field change of quantum-level charges in atmospheric space. Under the action of non-invasive low-frequency electromagnetic waves, qigong practitioners use the external magnetic field to respond to the neural spike threshold generated by the nervous system in the human body, which opens up the benign microcirculatory system of the human body and improves the immune function of macrophages and cellular metabolic function.

Therefore, it can be assumed that human magnetoreception consists of magnetoreceptor fields, magnetoreceptive neurons, and neural spike networks. Human magnetoreception is manifested by the interaction of the charge in the air into the lungs into the bloodstream to produce an effect, and by the mutual induction of an external non-invasive magnetic field and the human biomagnetic field. The human biomagnetic field is very weak, yet the special human magnetoreceptors are instead ultra-sensitive to spatial electromagnetic changes, which may explain the difficulty of qigong to be detected by the crude physical magnetic detection instruments nowadays. In-

hibition and excitation of ion channels are controlled by ion pumps, and most channels exhibit three basic states of closure, opening, and resting. In contrast to the Hodgkin-Huxley sodium-potassium ion channels that produce spiking patterns, human magnetoreceptors are likely to construct special iron-copper ion channels from highly loaded ferritin and cytosolic copper. [2] According to Mladen Balbic's studies on ferritin and ion channels, external magnetic fields act non-invasively in the human body to activate ion channels, and highly loaded iron particles in ferritin are supramagnetic paramagnetic, which can form magnetizing currents, and [3] theoretically, magnetic saturation occurs at a magnetic field of 1 Tesla for two 8 nm ferritins, which is sufficient to mechanically deform the cell membrane of ion channels, dominating the generation of action potentials with neural spike encoding patterns. Ferritin and copper proteins are commonly found in human blood, and when two highly loaded ferritin ions in a superparamagnetic state generate a magnetizing current large enough to reach a threshold, inducing the formation of a mutual inductive electric potential in the adjacent next ferritin neuron, generating a transmembrane potential that sequentially opens the ferritin channel. While copper ions have very good conductivity, when the ferric ion current in the cell membrane reaches the threshold, copper proteins, as one of the neurotransmitters, can transmit the spike pattern to the intermediate neurons and the brain.

Cellular copper is also antimagnetic and does not form a transmembrane potential without a sufficiently large current, such that ferritin and copper proteins constitute a special set of excitatory and inhibitory voltage-gated ion channels. Theoretically, it is hypothesized that human supramagnetic paramagnetic ion channels composed of Fe-Cu ions are far stronger than the information transfer in sodium-potassium ion channels in ordinary human neurons, both in terms of membrane conductance and membrane voltage, and in terms of the information loaded in the cellular firing rate. Under non-invasive extrinsic magnetic field generation of sufficient magnitude, the Fe-Cu ion channel will show a step voltage as a function of Dirac δ . Unlike the sodium-potassium channels that produce stereotypical neural spikes, the anisotropic low-frequency plasma solitary waves in the major seismic zones around the world contain rich information on earthquake precursors. In the case of human-specific earthquake predictors, the electromagnetic signals of earthquake precursors received by the magnetic receptors distributed in acupoints and bone joints throughout the body are converted into neural spikes by repeatedly applying Bayesian algorithms and similar genetic algorithms, including way of time-to-first spike (TTFS) coding [4-6], in the brain. corresponding positions in the 3D seismic zone map in the brain, cracking the most critical challenge of earthquake prediction - epicenter localization, and thus improving the robustness of the human magnetoreception system in predicting earthquakes.

On April 13, 2023, I predicted on Sina Weibo that a strong earthquake of magnitude 6.2-6.4 would occur in Tokushima, New Zealand, and on April 24, a strong earthquake of magnitude 7.2 occurred in Tokushima, New Zealand. Although seismologists have done more in-depth research on the relationship between animals and earthquake precursors as early as 2013, [7] for a person to predict a strong earthquake in New Zealand's Kermadec Islands, 9,000 kilometers away in a straight line, a week in advance, based only on electromagnetic signals sensed by his body, is an unbelievable and bizarre phenomenon for seismologists. However, this is not a coincidence, but merely an example of a fairly accurate prediction of a strong earthquake of magnitude 7.2 out of my record of 92 predictions of moderate to strong earthquakes of magnitude 5.5 or higher worldwide in 20 years [8,9].

Conclusion

Historical records the 7th century AD, Vesuvius eruption is about to destroy Pompeii, a Roman with their foot pain to predict the precursor to a major earthquake volcanic eruption, the famous financier Soros also revealed in his autobiography, he used back pain can predict the financial crisis in advance. Although the special magnetic sense of the human body sensing earthquake precursors is rare, the human brain is highly focused on the electromagnetic signal of earthquake precursors for a long time, which greatly stimulates the growth and more developed synapses in human nerves, thus greatly improving the decoding ability of the human magnetic sensor for earthquake precursors, which is fully consistent with the mechanism of neuronal spike network winner-takes-all (WTA). [9] Highly loaded ferric ion channels in human neuronal cells do not only generate magnetically induced currents. It also activates the magneto-thermal effect of ferritin on thermosensitive ion channels, which is quite consistent with the sensation of large heat currents generated in my skin when sensing shallow earthquake precursors at close range. With my twenty years of experience in human body sensing earthquake precursors, the special magnetic sense of the human body is not only not a pathology, but must be in a completely healthy state for the person predicting earthquakes to be able to filter the "noise" from external magnetic field noise and abnormal body factors from the different acupuncture points, especially the soreness, pain, numbness, heat and swelling that occur in the bones and joints "interference" and more successful in predicting earthquakes. Not only that, the low-frequency electromagnetic waves before a strong earthquake, but also has the effect of improving sleep, stimulating appetite and libido. This is also likely to be promising as a brand new medical research topic related to earthquake precursors.

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