

# Mathematical Formulation of Possible Entanglement between Human Consciousness and Unconsciousness Using Emointelligence Equation ( $I = T * E^{\alpha * \epsilon}$ )

Hafedh Abdelmelek<sup>1</sup>, Abdelhamid Adouani<sup>2</sup>, Amel Hanini<sup>1</sup>, Amen Allah Amri<sup>3</sup>, Zihad Bouslama<sup>4</sup>

<sup>1</sup>Laboratory of Integrated Physiology, Faculty of Sciences, University of Carthage, Jarzouna, Bizerte, Tunisia,

<sup>2</sup>Laboratory of Dynamic Systems and Applications UR17ES21, University of Carthage, Jarzouna, Bizerte,

Tunisia, <sup>3</sup>BEST Conseil Office, DR Center, 7000 Bizerte, Tunisia, <sup>4</sup>Laboratory of Aquatic and Terrestrial Ecology, Faculty of Sciences, University of Badji Mokhtar, BP 12, Sidi Amar, Annaba 23000, Algeria

## ABSTRACT

Quantum biology is usually considered to be new discipline, arising from recent research in nanosciences and quantum sciences. Our previous theories and research based on emointelligence equation suggested that brain, heart, and intestine could interact with universe through mechanisms having many similarities with entanglement. Interestingly, the interpretation of emointelligence equation in the case of  $\text{Log}(E_{unc}/E_c) = 0$  shows positive values of  $\text{Log}(I_{unc}/I_c)$  near 10 and  $E_{unc}/E_c = 1$ . In addition, the calculation of maximum values of  $\alpha$  (+6) indicates that  $I_{unc}/I_c = 0.006 \cdot 10^{12}$ . By contrast, when alpha has negative values  $\alpha$  (-6), the equation gives  $I_{unc}/I_c = 0.8 \cdot 10^{-6}$ . By looking for possible interaction between brain, heart, and intestine, we attempt to introduce an innovative concept called consciousness-unconsciousness entanglement. Consciousness can be understood from quantum biology by a symbolic representation of contents of consciousness at space-time level in each quantum entanglement with unconsciousness near Planck wall or big bang during sleep, fainting, and coma.

**Key words:** Consciousness, emotion, emotional bank system, entanglement, intelligence, universe

## INTRODUCTION

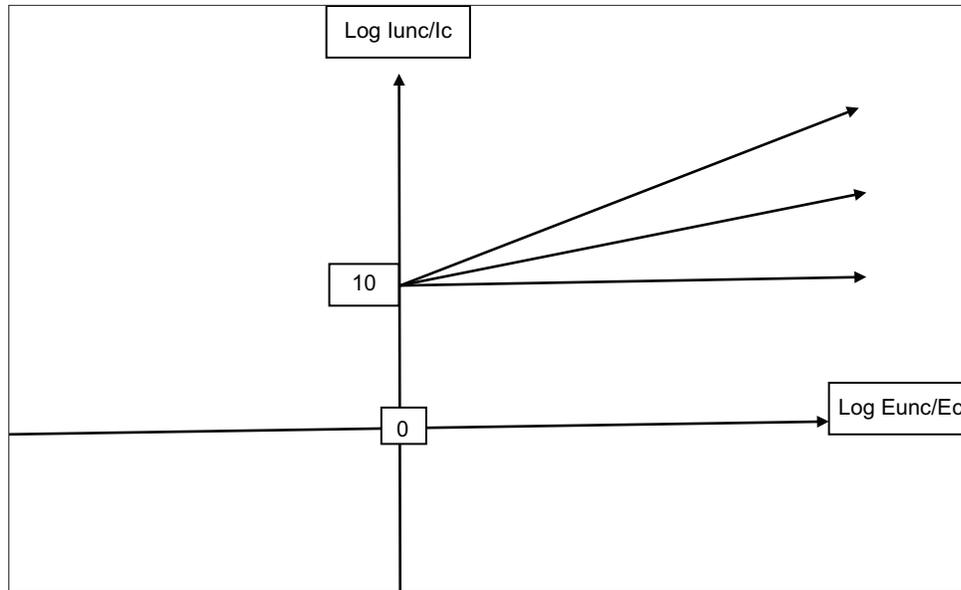
The present manuscript aims to propose a theory and simple mathematical interpretation of emointelligence equation applied to human consciousness and unconsciousness by (i) thinking out of the box and (ii) by introducing key notions at the level of neurosciences, physiology mathematical, and physical fields. Further, motivations come from the failure of methodologies or theory able to understand consciousness-unconsciousness in neuroscience context. Interestingly, it has been suggested that in the process of living systems such as plant physiology,

especially photosynthesis, entanglement probably is involved in the transfer of energy between light-harvesting complexes and photosynthetic reaction centers where the kinetic energy is harvested in the form of chemical energy. The previous research reported producing quantum entanglement using living organisms, particularly between living bacteria and quantized light.<sup>[1]</sup> There is growing evidence that a number of specific mechanisms within living cells, especially cells having automatism (cardiomyocyte and enterocyte), use quantum mechanics, such as long-lived quantum coherence, harmony, superposition, quantum tunneling, and even quantum entanglement. Quantum biology refers to a

### Address for correspondence:

Hafedh Abdelmelek, Laboratory of Integrated Physiology, Faculty of Sciences, University of Carthage, Jarzouna, Bizerte, Tunisia. E-mail: Hafedh.Abelmelek@fsb.mu.tn

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**Figure 1:** Graphical representation of emointelligence equation applied to consciousness (c) and unconsciousness (unc). I: Intelligence or innovation, E: Emotion

few number of consciousness-unconsciousness theories. Nowadays, we can consider a concept of an “energy information (EI)” governing the work and mechanism of living system based on emointelligence equation.<sup>[2,3]</sup> One might envisage quantum mechanical concept that connects nature, plant, animal, human, and universe as previously described by One Nature-One Emotion-One Health theory<sup>[2]</sup> where atoms and especially emotions are rearranged by some sort of tunneling or entanglement mechanisms. We propose that living systems resonate with universe EI and play a key role in maintaining coherence or harmony in living cells, especially consciousness.<sup>[4]</sup> Living systems, especially neurons, cardiomyocytes, and intestinal cells, must be continuously supplied with EI from its surroundings to maintain its low entropy and out-of-equilibrium state. The debate has now shifted from the question of whether quantum coherence and tunneling are involved in consciousness-unconsciousness mechanisms to the role played by entanglement.

The interpretation of a probable entanglement as a moment of consciousness-unconsciousness interaction based on emointelligence equation means that unconscious experience is outside space-time and out the human brain. Emointelligence equation provides the basic mathematical framework for entanglement and this suggests important modifications of the standard theory of consciousness-unconsciousness. The notion of mathematical resolution of emointelligence equation characterized in terms of emotion, intelligence implies that entanglement could be implicated in the interaction of consciousness-unconsciousness during sleep or coma status. The mutual induction between consciousness-unconsciousness has also important implications for consciousness and our interpretation of

many neurophysiological phenomena and psychological diseases. For ordinary observations, emointelligence theory and interpretation separate consciousness from unconsciousness in the case of lack of harmony and gives an unentangled state compared to harmony. When we cannot entangle between consciousness-unconsciousness, it is impossible to fuse and share emotions, algorithm, and mental images. The entanglement supposes that consciousness must be separated from unconsciousness entities. More generally, a pool of emotion, algorithm, and mental images might be fundamental for evolution of social and moral rules and languages. The basic implication of emointelligence equation resolution characterized by Abdelmelek *et al.*<sup>[2]</sup> is that state function reduction can never reduce entanglement completely so that the entire universe can be regarded as an infinite living organism. An open question is whether entanglement probabilities defined in this manner are analogical always or only in special cases. The fact that the contents of conscious experience are about four-dimensional (4-D) rather than three-dimensional space-time region, motivate the notions of 4-D brain, 4-D heart, 4-D intestine, body, and even society as previously introduced by entanglement and nerve superconductivity in the cases of talk between brains.

## THEORETICAL FOUNDATIONS

$$I_c = \varepsilon E_c^\alpha T_c \tag{1}$$

$$I_{unc} = \varepsilon E_{unc}^\alpha T_{unc} \tag{2}$$

$$(Eq2)/(Eq1) \quad I_{unc}/I_c = T_{unc}/T_c * (E_{unc}/E_c)^\alpha$$

$$\text{Constante 1 of } T_{\text{unc}}/T_c = 3.1510^{10}$$

$$\text{Log } I_{\text{unc}}/I_c = \text{Log } (3.1510^{10}) + \alpha \text{Log } (E_{\text{unc}}/E_c)$$

$$f(x) = \text{Log } (3.1510^{10}) + \alpha \text{Log}(x)$$

I: Intelligence or Innovation, T: Time, E: Emotion,  $\alpha$ : Factor and  $\epsilon$ : Coefficient, unc: Unconsciousness, c: Consciousness.

Our previous theories and research based on emointelligence equation suggest that brain, heart, and intestine could interact with unconscious which is probably located near Planck wall and/or big bang in the universe. Interestingly, the interpretation of emointelligence equation when  $\text{Log } (E_{\text{unc}}/E_c) = 0$  shows positive values of  $\text{Log } (I_{\text{unc}}/I_c)$  near 10 and  $E_{\text{unc}}/E_c = 1$ . In addition, the calculation of maximum values of  $\alpha$  (+6) indicates that  $I_{\text{unc}}/I_c = 0.006 \cdot 10^{12}$ . By contrast,  $\alpha$  (-6) negative values give  $I_{\text{unc}}/I_c = 0.810^{-6}$  [Figure 1]. By looking for possible interaction between brains, heart, and intestine, we attempt to introduce an innovative concept called consciousness and unconsciousness entanglement. Consciousness can be understood from quantum biology by a symbolic representation of contents of consciousness at space-time level updated in each quantum entanglement with unconsciousness near Planck wall or big bang during sleep, coma, and fainting. Consciousness-unconsciousness provides space-time model that correlates for algorithm stability in all emotional or intellectual processes. This present manuscript suggests that connectedness to nature or universe is one mechanism through which automated intestine cells and cardiomyocytes receive EI in different ways based on alpha values (-6, 0, and +6). If alpha values are positive near +6, we have an efficient entanglement. By contrast, with negative alpha values near -6, we have difficult or impossible entanglement. However, recent research demonstrates the existing of signals (EI) or information that circulate only between living systems in nature.<sup>[2,5,6]</sup>

## CONCLUSION

Our theories pointed to the existence of possible connectiveness between universe and brain, heart, and intestine that could interact with consciousness-unconsciousness located near Planck wall and/or big bang. Consciousness can be understood from quantum biology by a symbolic representation of contents of consciousness at space-time level updated in each quantum entanglement with unconsciousness near Planck wall or big bang. Consciousness-unconsciousness provides space-time model that correlates for algorithm stability in all emotional or intellectual processes (sleep, fainting, and coma).

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