Intuitive Intelligence, Self-regulation, and Lifting Consciousness

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ABSTRACT

This article explores the role of the heart in emotional experience, as well as how learning to shift the rhythms of the heart into a more coherent state makes it possible to establish a new inner baseline reference that allows access to our heart’s intuitive capacities and deeper wisdom. The nature and types of intuition and the connection between intuition and compassionate action are discussed. It is suggested that increased effectiveness in self-regulatory capacity and the resultant reorganization of memories sustained in the neural architecture facilitates a stable and integrated experience of self in relationship to others and to the environment, otherwise known as consciousness. The implications of meeting the increasingly complex demands of life with greater love, compassion, and kindness, thereby lifting conscious awareness, are considered.

INTRODUCTION

Life is composed of a series of circumstances and situations about which individuals must make decisions and take action. More and more, as social and other challenges increase, there is a call for lifting up individual and global consciousness, in the sense of choices made, such that daily life may become more tenable and the future of our planet may become more assured. In a world that is moving more and more quickly and is increasingly complex, it is desirable to have access to the most effective and expedient strategies for adapting and making good decisions. Much attention has been given to identifying the many factors that go into making intelligent decisions, including awareness of self and others, cognitive flexibility, and emotional self-regulation. A newer avenue of scientific exploration relates to uncovering the nature and functioning of intuition, or what is referred to as intuitive intelligence. In a meta-analysis of the literature on intuition, Hodgkinson et al state that while there have been many conceptualizations of the nature of intuition, there is a growing body of research that suggests underlying non-conscious elements, such as implicit learning and knowledge and pattern recognition, which are involved in intuitive perception. Research also suggests that intuition may play an important role in social cognition, decision-making, and creativity. In the absence of access to innovative problem-solving approaches, people are likely to default to familiar patterns of thought, feeling, and action to address situations that could often be more effectively managed with new, creative solutions that take into consideration the available inner resources that are congruent with one’s deeper core values. Lifting up individual and global consciousness, in the largest sense, is fundamental to positively impacting individual and collective health and well-being and harmony. We suggest that this relies heavily on individuals taking self-responsibility for establishing a new baseline reference and alignment with their intuition that provides moment-to-moment guidance, which we call heart-based living.

The ability to alter one’s responses and behaviors in order to build and maintain loving relationships and a supportive network, as well as to effectively meet the demands of life with composure, consistency, and integrity, arguably becomes central to good health, effective decision-making, and success in lifting consciousness and living a life of greater collaboration, kindness, and compassion. If one’s capacity for intelligent, self-directed regulation is powerful enough, then regardless of inclinations, past experiences, or personality traits, people can usually do the adaptive or right thing in most situations they encounter. It has been shown that the practice of making efforts to self-regulate can produce broad improvements in self-regulatory capacity similar to strengthening a muscle, making people less vulnerable to depletion of internal reserves. When internal reserves are depleted, normal inner restraints are weakened and intelligent decision-making can become compromised through inappropriate behavior, lost opportunities, stress, and damaged relationships. Despite the importance of self-directed control to optimal function, self-regulatory capacity for many people is often far less than many would consider ideal. In fact, failures of self-regulation, especially of emotions and attitudes, are central to the vast majority of personal and social problems that plague modern societies. Therefore, the most important strength that the majority of people in society need to build is the capacity to self-regulate their emotions, attitudes, and behaviors. It is this capacity that allows people to mature and meet the challenges and stresses of everyday life with resilience and make more intelligent decisions by aligning with...
their own innate higher order wisdom and expression of care and compassion, which we often think of as elements of living a more conscious life.

Effectively dealing with stress and sustaining one’s resilience primarily involves learning to recognize and self-regulate the stream of ongoing thoughts and especially emotional undercurrents (judgment, negative projection, insecurity, worry, etc) that create incoherence and waste energy. By learning to increasingly replace these feelings with more positive, regenerative attitudes and perceptions, we can establish a new inner baseline reference, a type of implicit memory that organizes perception, feelings, and behavior and allows for more effective responses that use the heart’s perceptual abilities to access and bring forth a deeper innate source of wisdom. Without establishing a new baseline reference of self-regulation that incorporates intuitive perspectives, people are at risk of living their lives through the automatic filters of past familiar experience.

The root of the term intuition stem from the Latin word in-tu-ir, which can be translated as “looking, regarding, or knowing from within.” In a review article, Gerard Hodgkinson concludes that intuiting is a complex set of interrelated cognitive, affective, and somatic processes, in which there is no apparent intrusion of deliberate, rational thought. He also concludes that the considerable body of theory and research that has emerged over recent years clearly demonstrates that the construct of intuition has emerged as a legitimate subject of scientific inquiry that has important ramifications for education, personal, medical, and organizational decision-making, personnel selection and assessment, team dynamics, training, and organizational development. Another comprehensive review of the intuition literature defined intuition as “affectively-charged judgments that arise through rapid, non-conscious, and holistic associations.” Damasio also suggests that the outcomes of intuition can be experienced as a holistic “hunch” or “gut feel,” a sense of calling or overpowering certainty, and an awareness of a knowledge that is on the threshold of conscious perception.

Several authors have contended that intuition is an innate ability that all humans possess in one form or another and is arguably the most universal natural ability we possess. They also suggest that the capability to intuit could be regarded as an inherited unlearnt gift. A common element also found in most discussions and definitions of intuition is that of affect or emotions. Intuitions are felt, although they can be accompanied by cognitive content and perception of information. In this article, we suggest that emotions are the language of intuition and that intuition offers a largely untapped resource to manage and uplift our emotions and consciousness.

As pervasive and vital as they are in human growth and experience, emotions, and effective ways to self-regulate them, have long remained an enigma to science. Many common emotion regulation strategies operate on the assumption that all emotions follow thought and thus, by changing one’s thoughts, one should be able to gain control over one’s emotions. However, in the last decade, research in neuroscience has made it quite clear that intuition and emotional processes operate at a much higher speed than cognitive processes. In many cases, emotions occur independently of the cognitive system and can significantly bias or color the cognitive process and its output or decision.

The quest to understand the complex interaction between different parts of the brain and how it relates to cognition and the felt experience of emotion has been addressed from many perspectives. This article explores recent scientific understandings that help clarify the role of the heart in emotional experience and effective approaches to self-regulation that involve shifting the rhythms of the heart, thereby allowing us to facilitate cognitive functioning and intuitive capacities.

The question of how intuition, as an aspect of automatic functioning, is related to deliberate, conscious thought processes has long been the subject of debate. Research in the fields of cognitive and social psychology has resulted in the fairly well accepted dual-process theory, which posits that there is an intricate interaction between automatic unconscious processes and slower, conscious processes. While it has been defined in a variety of ways, there is a good bit of consensus that at a basic level, the conscious state, or individual consciousness, can be understood as the awareness of one’s self and of one’s environment and the corresponding capacity for self-directed action which is informed by input provided through implicit and automatic processes. Emerging lines of scientific thought suggest that the consistent sense of self is maintained as patterns of activity in the intricate internal communication and interactions within nested hierarchies of neural networks and processes.

A brief overview of the nature of these patterns, which in essence sustain implicit memories and provide a stable reference for experience, therefore becomes pertinent as they underlie a variety of processes that are central to optimal function, intuition, and higher-functioning consciousness.

**TYPES OF INTUITION**

Intuitive perception is commonly acknowledged to play an important role in business decisions and entrepreneurship, learning, creativity, medical diagnosis, healing, spiritual growth, and overall well-being.

For the purposes of this article, we will use the framework generated by our research at the Institute of HeartMath, Boulder Creek, California, which suggests that there are three different categories or types of processes that the term intuition is often used to describe. The first type is often referred to as implicit knowledge or learning, which in essence, refers to knowledge we acquired in the past and either forgot or did not realize we learned. Drawing on the neuroscience conception...
of the human brain as a highly efficient and effective pattern-matching device, a number of so-called “pattern-recognition” models have been developed to show how this fast type of “intuitive” decision and action can be understood purely in terms of neural processes in which the brain matches the patterns of new problems or challenges with stored templates in memory based on prior experience.  

The second type is what we call energetic sensitivity, which refers to the ability of our nervous system to detect and respond to environmental signals such as electromagnetic fields. For example, it is well established that in both humans and animals, nervous system activity is affected by geomagnetic activity. 

Some people appear to have the capacity to feel or sense that an earthquake is about to occur before it happens. It has recently been shown that changes in the earth’s magnetic field can be detected about an hour or even longer before a large earthquake occurs. Another example of energetic sensitivity is the sense that someone is staring at us. Several scientific studies have verified this type of sensitivity.

The third type, which is the subject of several articles in this issue, is nonlocal intuition, which refers to the knowledge or sense of something that cannot be explained by past or forgotten knowledge or environmental signals. Examples of nonlocal intuition are when a mother senses something happening to her child, who is many miles away, or the repeated, successful sensing experienced by entrepreneurs about factors related to making effective business decisions.

The study of nonlocal intuition, which at times has been thought of as interchangeable with processes categorized as psi phenomena such as telepathy, clairvoyance, and precognition, has been fraught with debate in the scientific community. While there are various theories that attempt to explain how the process of intuition functions, such as the pattern-recognition models cited above and the quantum-holographic model by Bradley, which postulates that nonlocal communication rests on a resonance between the body’s psychophysiological systems and the quantum-holographic fields, these theories have yet to be confirmed, and an integrated theory remains to be formulated. Nevertheless, there is increasing research evidence based on an examination of physiological responses that suggests that nonlocal intuition is a real and measurable phenomenon.

A meta-analysis conducted by Bem of nine experiments in the area of “preognition (conscious cognitive awareness) and premonition (affective apprehension) of a future event that could not otherwise be anticipated through any known inferential process,” revealed statistically significant results in eight of the nine studies with respect to pre-stimulus responses in more than 1000 subjects, indicating a possible retroactive influence of the stimulus. Mossbridge likewise concluded by means of a meta-analysis of 26 studies that a clear anticipatory physiological activity effect of what appear to be unpredictable stimuli is indicated, despite the fact the there is no known explanation available for this finding.

A study that independently replicated and extended previous research documenting pre-stimulus responses found evidence to suggest that the heart is involved in the processing and decoding of intuitive information. The researchers further found evidence that the magnitude of pre-stimulus response to the future event is related to the degree of emotionality of that event.

**IMPLICIT PROCESSES**

To gain a deeper understanding of the role of the heart in accessing intuitive intelligence and lifting consciousness, it is first prudent to discuss how memories of past events play a crucial role in setting the stage for implicit types of intuition and emotional perception as well as the important role the heart plays in all three types of intuition.

Recent years have seen the emergence of a new understanding of how the brain functions and how the heart and brain interact in a dynamic and complex relationship. Rather than assembling thoughts and feelings from bits of data like a digital computer, the brain is more like an analog processor that relates whole concepts or patterns to one another and looks for similarities, differences, and relationships between them.

Although dual-process theories come in a number of forms, they all have in common the distinction of two separate processing systems. The first system is contextually dependent, associative, heuristic, tacit, intuitive, and implicit/automatic in nature. Therefore, it is relatively undemanding in terms of its use of cognitive resources. For example, when individuals have gained experience in a particular field, implicit intuitions are derived from their capacity to recognize important environmental cues and rapidly and unconsciously match those cues to commonly occurring patterns that lead to effective diagnosis and problem solving. In contrast, the second processing system is contextually independent, rule-based, analytic, and explicit in nature. It is relatively slow and places greater demands on cognitive resources than does the first system.

The term *intuition* is also commonly used to describe experiences referred to as insight in scientific literature. When we have a problem we cannot immediately solve, the brain can be working on it subconsciously. A common experience is that when we are showering, driving, or doing something else without thinking about the problem, a solution can pop into the conscious mind, which we experience as an intuitive insight. This type of implicit process involves a long gestation period following an impasse in problem solving prior to a sudden insightful realization or strategy that leads to a solution. In contrast, intuition in the first process described above occurs almost instantaneously and is emotionally charged.
IMPLICIT PROCESS AND EMOTIONAL EXPERIENCE

Past experience builds within us a set of familiar patterns or memories that are established and maintained in nested feedback loops in the neural architecture. Our experience in navigating life and the associated inputs to the brain from both the external and internal environments contribute to establishing and maintaining these familiar patterns. Many processes within the body provide constant rhythmic inputs with which the brain eventually becomes habituated and familiar. In other words, we establish sets of physiological and behavioral set points or default patterns that, once established, the brain and nervous system strive to maintain. Although more complex, this is analogous to setting the temperature to a specific setting on a thermostat that the heating system then maintains.

The internal processes that contribute to the establishment of these stable patterns or set points include patterns of activity in afferent (ascending) neural input from the heart, digestive, respiratory, and hormonal systems, as well as patterns of muscular tension, particularly facial expressions. These inputs are monitored continuously by the brain and help organize perception, feelings and behavior. Once a stable pattern is formed and stabilized in memory, all sensory input to the brain, from both the internal and external sensory systems, is compared to these stable reference patterns. When the current inputs match the baseline pattern, the brain recognizes them as familiar and we experience this as comfortable. It is important to understand that this is true even if the established reference pattern is one associated with chaos, incoherence, confusion, anxiety, etc.

In order to maintain continued stability and feelings of comfort, we must be able to maintain a match between our current experience or “reality” and one of our neural “programs” that has been previously established. When we encounter a new experience or behaviors cannot be sustained in the absence of establishing a new baseline reference, which the system then strives to maintain. If behavior change or improved affective states are desired, it is therefore critical to focus on strategies that facilitate the establishment of a new internal reference.
SELF-REGULATION AND STABILITY

When the current input to the brain does not match an existing program, adjustments must be made in order to maintain control and stability. One way to reestablish control is by taking an outward action. For example, we are motivated to eat if we feel hungry and take action to find a source of food, we run away or fight if threatened, or we do something to draw attention to ourselves if we are feeling ignored. Alternatively, we can reestablish stability and gain control by self-regulating and making internal adjustments (without any overt action). Pribram and many others conducted numerous experiments providing evidence that the higher brain centers that monitor and label the pattern-matching process can self-regulate by inhibiting or “gating” the information flowing into the brain. For example, where we focus our attention has a powerful effect on modulating inputs and thus on determining what gets processed at higher levels. In a noisy room filled with many conversations for instance, we have the ability to tune out the noise and focus on a single conversation of interest. In a like manner, we can modulate pain from a stubbed toe or headache or desensitize ourselves to sensations like tickling and self-direct our emotions.19 Ultimately, when we achieve stability through our efforts, the results are feelings of satisfaction and gratification. By contrast, when there is a failure to effectively self-regulate, feelings such as frustration, anxiety, panic, annoyance, apprehension, hopelessness, or depression result.

Unsettled emotions and untypical reactions can be experienced if the neural systems that maintain the baseline reference patterns are in an unstable state. These neural systems can be destabilized from stress, anxiety, chemical stimulants, etc. Therefore, it is clear that optimal function in responding effectively to ongoing inner and outer demands and circumstances depends to a great extent on synchronization and stability of physiological systems.5-37

There is substantial evidence that the heart plays a unique role in synchronizing the activity across multiple systems and levels of organization. As the most powerful and consistent generator of rhythmic information patterns in the body, the heart is in continuous communication with the brain and body through multiple pathways: neurologically (through the autonomic nervous system), biochemically (through hormones), biophysically (through pressure and sound waves), and energetically (through electromagnetic field interactions). The heart is uniquely well positioned to act as the “global coordinator” in the body’s symphony of functions to bind and synchronize the system as a whole.5-37,38 Because of the extensiveness of the heart’s influence on physiological, cognitive, and emotional systems, the heart provides a central point from which the dynamics of the psychophysiological systems can be self-regulated.

One of the research focuses of our laboratory over the last decade has been the study of the patterns and rhythms generated in various physiological systems during the experience of different thoughts and emotions and behaviors. Through experimenting with numerous physiological measures, we have found that heart rate variability (HRV, or heart rhythm) patterns are consistently dynamic and reflective of changes in one’s emotional state (Figure 1).5-39

It is important to note that although changes in heart rate often co-vary with emotions, our research has found that it is the pattern of the heart’s rhythm that is primarily reflective of the emotional state, especially in the case of emotions that do not lead to large autonomic nervous system (ANS) activations or withdrawals.5-39,40 Enrique Leon has expanded on our observations by using a neural network approach to analyzing the rhythmic patterns that occur in HRV and has demonstrated 75% accuracy in being able to correctly identify discrete emotional states (ie, anxiety vs frustration, etc) from only the pattern of the HRV.41 These changes in rhythmic patterns can be independent of heart rate; that is, one can have a coherent or incoherent pattern at higher or lower heart rates. Thus, it is the pattern of the rhythm (the ordering of changes in rate over time) rather than the rate (at any point in time) that is most directly related to emotional dynamics and physiological synchronization.5
Physiological coherence, also referred to as heart coherence, cardiac coherence, or resonance, is a functional mode measured by HRV analysis wherein a person’s heart rhythm pattern becomes more ordered and sine-wave like at a frequency of around 0.1 Hz (10 sec).5-19 A coherent state reflects increased synchronization and resonance in higher-level brain systems and in the activity occurring in the two branches of the ANS, as well as a shift in autonomic balance toward increased parasympathetic activity.5 Importantly, there is physiological evidence that the ongoing practice of coherence-building techniques facilitates a repatterning process in the neural architecture where coherence becomes established as a new, stable baseline reference memory.42 Self-regulation of emotions and stress responses then becomes increasingly familiar and, eventually, automatic.5,43-45 This makes it easier for individuals to maintain their “center” and increase their mental and emotional flexibility and capacity to access all three types of intuition and remain in self-directed control.

ENERGETIC SENSITIVITY

The interaction between human beings—for example, the consultation between a patient and clinician—is a very sophisticated dance that involves many subtle factors. Most people tend to think of communication solely in terms of overt signals expressed through facial movements, voice qualities, gestures, and body movements. However, evidence now supports the perspective that a subtle yet influential electromagnetic or “energetic” communication system operates just below our conscious level of awareness that we can experience as a type of intuition that is likely an aspect of empathy.38 The ability to sense what other people are feeling is an important factor in allowing us to connect or communicate effectively with others. The smoothness or flow in any social interaction depends to a great extent on the establishment of a spontaneous entrainment or linkage between individuals. When people are engaged in deep conversation, they begin to fall into a subtle dance, synchronizing their movements and postures, vocal pitch, speaking rates, and length of pauses between responses,46 and, as we are now discovering, important aspects of their physiology can also become linked and synchronized. A review of the evidence for energetic communication is outside the scope of this article, and we will thus only provide a couple of examples that illustrate this type of intuitive capacity.

For example, an experiment investigating the energetic exchange and physiological linkage between people seated 5 feet apart found a synchronization of physiological systems between individuals. In conducting these experiments, the question being asked was straightforward; namely, can the electromagnetic field generated by the heart of one individual be detected in physiologically relevant ways in another person, and if so, does it have any discernible biological effects? To investigate these possibilities, we used signal-averaging techniques to detect signals that were synchronous with the peak of the R-wave of one participant’s electrocardiogram (ECG) in recordings of another participant’s electroencephalogram (EEG), or brain waves.

Figure 2 illustrates the synchronization of subject two’s brain waves to subject one’s ECG signal. Power spectrum analysis of the signal averaged EEG waveforms showed that the alpha rhythm of subject two was synchronized to subject one’s heartbeats. In this example, when the data from the same two participants was analyzed to see if subject one’s EEG was also synchronized to subject two’s ECG, there was no observable synchronization. The key difference between the participants was the high degree of physiological coherence maintained by subject two. In other words, the degree of coherence appears to be a key factor in linking to others’ physiological activity and rhythms. This suggests that when one is in a heart-coherent mode, it facilitates a greater level of energetic sensitivity and empathy.

Another line of research that has shown physiological synchronization between people was in a study of a Spanish fire-walking ritual. Heart rate data were obtained from 38 participants, and synchronized activity was compared between fire-walkers and spectators. The researchers found finely-tuned synchronizations during the fire-walking ritual between fire-walkers and spectators who were family members or had a close relationship, but not between fire-walkers and unrelated spectators. The authors...
suggest that the mediating mechanism is likely informational in nature.47

Morris studied the effect of heart coherence in a group setting.48 He conducted 148 ten-minute trials in groups in which three participants recently trained in shifting into and sustaining a coherent state were seated around a table with one untrained participant. During each trial, three of the trained participants were placed with one of 25 untrained volunteers to determine whether they could collectively facilitate higher levels of HRV coherence in the untrained individual. The coherence of the untrained subject was found to be higher in approximately half of all matched comparisons when the trained participants were in a coherent state. He also found evidence of heart rhythm synchronization between group participants and higher levels of coherence correlated to higher levels of synchronization between participants, which was significantly associated with relational measures (bonding) among the participants. He concluded that evidence of heart-to-heart synchronization across subjects was found, which lends credence to the possibility of “heart-to-heart bio-communications” and since energetic connections seem to be related to the quality of thoughts and emotions held in consciousness, it would be mutually advantageous for people to practice empathy in their dealings with one another.

INTUITION AND EMPATHY

Given that empathy represents an aspect of intuition in regard to energetic sensitivity and that it is implicated as an important factor in sustaining compassionate social action and positive relationships, it is pertinent to explore the nature of empathy in order to more fully understand the role it plays in making choices that uplift individual and global consciousness. Empathy is defined by the Oxford Dictionary as “the ability to understand and share the feelings of another.” Goleman discusses Ekman’s taxonomy of empathy, which consists of cognitive, emotional, and compassionate empathy, yielding a complex construct with numerous interacting aspects.49 Lieberman further states that empathy is an embodied experience of a way of knowing another that goes beyond that of a cognitive map and that must be grounded in the knowledge that this experience is, in fact, an awareness of the other, rather than a personal emotional experience.3 This is significant in that compassionate empathy, as the action stemming from an empathic understanding of the experience of another, cannot be effective in uplifting consciousness to the degree that it reflects self-interested intention.

Positive social relations have been found to create a type of social coherence that attunes the heart-based wave fields of bio-emotional energy generated that links a group as a whole.50 We suggest that as group members are attuned to the same resonant socio-emotional frequency, the group generates a powerful collective receptive field of coherent bio-emotional energy through which nonlocal information is accessed and amplified due to a stronger resonant feedback loop, both to the field of the group and to that of the individual member.51 These dynamics rest on the ability for coherent function, intentionality, and positive emotional social intention within a supportive community.

NONLOCAL INTUITION

Two other studies in this issue add to the growing number of studies providing evidence of perception of future information.52-53 There is now a large body of rigorous experimental research dating back more than seven decades that has documented nonlocal intuitive perception in a variety of rigorous scientific experiments showing that it cannot be explained by flaws in experimental design or research methods, statistical techniques, chance, or selective reporting of results.54 As both of these articles contain discussions of previous research on nonlocal intuition, we will not be reviewing it again here. We will instead focus on the broader role of nonlocal intuition in lifting human consciousness and role of the heart in this process.

As mentioned earlier, the majority of studies view intuitive perception solely as the result of implicit memories and the unconscious mind accessing forgotten information stored in the brain.17-33-55-56 However, we suggested that there are three types or categories of intuition: implicit knowledge, energetic sensitivity, and nonlocal. It has been suggested that the capacity to receive and process information about nonlocal events appears to be a property of all physical and biological organization and is likely due to the inherent interconnectedness of everything in the universe.59-61

Given that a relationship has been established between increased heart coherence and access to intuitive intelligence,29 the capacity to shift into coherent states is an important factor when considering the heart’s role in lifting consciousness. Research on intuition suggests that it is possible to access intuitive intelligence more frequently by quieting mental chatter and emotional unrest and by paying attention to one’s intuitive guidance.52 We have found that increased heart rhythm coherence correlates with significant improvements in performance on tasks requiring attentional focus and subtle discrimination,5 as well as with pre-stimulus–related afferent signals from the heart,29 which are likely important elements of intuition that are particularly salient in pattern recognition, which is likely involved in all types of intuitive process.

Given the central role of the heart in creating coherence and its association with heartfelt positive emotions, it is not surprising that one of the strongest common threads uniting the views of diverse cultures, religious, and spiritual traditions throughout human history has been the universal regard for the human heart as the source of love, wisdom, intuition, courage, etc. Everyone is familiar with such expressions as “put
your heart into it,” “learn by heart,” “speak from your heart,” and “sing with all your heart”—all of which suggest an implicit knowledge that the heart is more than just a physical pump that sustains life. What such expressions reflect is something that is often called the “intuitive heart” or “spiritual heart.” Throughout history, people have turned to the intuitive heart, sometimes referred to as their “inner voice,” soul, or “higher power” as a source of wisdom and guidance. Interestingly, polls conducted by the Pew Research Center find that 95% of Americans believe in some form of a higher power, as does 85% of the world’s population. The surveys also show that scientists are roughly half as likely to believe in a universal being than the general public.61

There is compelling evidence to suggest that the physical heart is coupled to a field of information that is not bound by the classical limits of time and space.28,29 This evidence comes from a rigorous experimental study that demonstrated that the heart receives and processes information about a future event before the event actually happens.28,29 The study’s results provide surprising data showing that both the heart and brain receive and respond to pre-stimulus information about a future event before the event occurs (Figure 3).

Even more tantalizing are clear indications that the heart receives intuitive information before the brain and that the heart sends a different pattern of afferent signals to the brain prior to an adverse future event that modulates the frontal cortex, as assessed with heartbeat-evoked potential analysis. In addition, when study participants were in a coherent state prior to the experimental protocols, they were significantly more attuned to the information from the heart.29 This suggests that the heart is directly coupled to a source of information that interacts with the multiplicity of energetic fields in which the body is embedded.

What is meant by terms such as intuitive heart or heart intelligence is what we call the energetic heart, which is coupled to a deeper part of one’s self. Many call this their “higher self” or their “higher capacities” and is what physicist David Bohm called our implicate order and undivided wholeness.59 We use the term energetic systems in this context to refer to the functions we cannot directly measure, touch, or see, such as our emotions, thoughts, and intuitions. Although these functions have loose correlations with biological activity patterns, they nevertheless remain covert and hidden from direct observation. Several notable scientists have proposed that such functions operate primarily in the frequency domain outside of time and space and have suggested mechanisms as to how they can interact with biological processes.64–70

As discussed elsewhere, the physical heart has extensive afferent connections to the brain and can modulate perception and emotional experience.5 Our experience suggests that the physical heart also has communication channels connecting it with the energetic heart.29 Nonlocal intuition therefore is transformational; it contains the wisdom that streams from the soul’s higher information field down into the human system via the energetic heart and can inform our moment-to-moment experiences and interactions. At the Institute of HeartMath, we call this heart intelligence.

Heart intelligence is the flow of higher awareness and intuition we experience when the mind and emotions are brought into synchronistic alignment with the heart. When we are heart-centered and coherent, we have a tighter coupling and closer alignment with our deeper source of intuitive intelligence and are able to more intelligently self-regulate our thoughts and emotions, which over time lifts consciousness and establishes a new internal physiological and psychological baseline.19 In other words, there is an increased flow of intuitive information, which is communicated via the emotional energetic system to the mind and brain systems, resulting in a stronger connection with our deeper “inner voice.”
TECHNIQUES FOR ACCESSING INTUITION

The research on heart-brain interactions and intuition has informed the development of a set of self-regulation techniques, known as the HeartMath System. The HeartMath process offers individuals systematic and reliable techniques to intentionally increase physiological coherence and self-regulate out of a state of emotional unease or stress into a “new” positive state of emotional calm and stability. One of the techniques, called Freeze Frame, is a five-step process for improving intuitive capacities, stopping energy drains, and obtaining greater clarity and finding innovative solutions to problems or issues. Studies conducted across diverse populations in laboratory, organizational, educational, and clinical settings have demonstrated that these coherence-building techniques are effective in producing both immediate and sustained reductions in stress and its associated disruptive and dysfunctional emotions, together with improvements in many dimensions of health and well-being. Collectively, results indicate that such techniques are easily learned and employed, produce rapid improvements, have a high rate of compliance, can be sustained over time, and are readily adaptable to a wide range of ages and demographic groups.

CONCLUSION

This article explored different perspectives about the nature and types of intuition, and the connection between intuition and lifting consciousness were discussed. It was suggested that increased effectiveness in self-regulatory capacity and the resultant reorganization of implicit memories sustained in the neural architecture facilitates a stable and integrated experience of self in relationship to others and to the environment, otherwise known as consciousness. We suggest that there are many benefits to be gained by a deeper understanding of the complex interactions between heart, brain, memory, and the energetic heart. Learning to access our deeper innate wisdom can facilitate people in unfolding who they really are and approaching personal, social, and global affairs with increased wisdom, compassion, and positive innovation. We call this state of internal and external connectedness “coherence.”

As the development of physiological coherence allows increased access to intuitive intelligence and as the individual’s repertoire of positive emotions and actions grows, it is natural that the enhanced experience of empathy and social coherence will lead to compassionate empathy in the form of attitudes and behaviors that facilitate and support altruistic pro-social actions. When more individuals in families, workplace, and communities increase and stabilize their coherence baselines, it can lead to increased social and global coherence and a corresponding lifting of consciousness.

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