

SCIENTIFIC PROOFS THAT ANIMALS ARE SENTIENT AND CONSIOUS BEINGS



DOCUMENTS AND LEGISLATION BASED ON THESE SCIENTIFIC PROOFS



Animals are similar to man??? Animals are identical to man??? Animals are equal to man???

We still use animals
We still use animals in the wrong way

The Cambridge Declaration on Consciousness

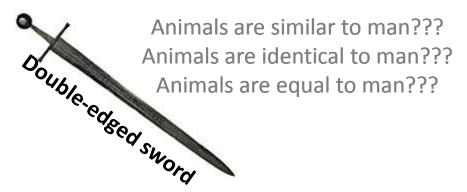
On this day of July 7, 2012, a prominent international group of cognitive neuroscientists, neuropharmacologists, neurophysiologists, neuroanatomists and computational neuroscientists gathered at The University of Cambridge to reassess the neurobiological substrates of conscious experience and related behaviors in human and non-human animals. While comparative research on this topic is naturally hampered by the inability of non-human animals, and often humans, to clearly and readily communicate about their internal states, the following observations can be stated unequivocally:

- The field of Consciousness research is rapidly evolving. Abundant new techniques and strategies
 for human and non-human animal research have been developed. Consequently, more data is
 becoming readily available, and this calls for a periodic reevaluation of previously held
 preconceptions in this field. Studies of non-human animals have shown that homologous brain
 circuits correlated with conscious experience and perception can be selectively facilitated and
 disrupted to assess whether they are in fact necessary for those experiences. Moreover, in
 humans, new non-invasive techniques are readily available to survey the correlates
 of consciousness.
- The neural substrates of emotions do not appear to be confined to cortical structures. In fact subcortical neural networks aroused during affective states in humans are also critically important for generating emotional behaviors in animals. Artificial arousal of the same brain regions generates corresponding behavior and feeling states in both humans and non-human animals. Wherever in the brain one evokes instinctual emotional behaviors in non-human animals, many of the ensuing behaviors are consistent with experienced feeling states, including those internal states that are rewarding and punishing. Deep brain stimulation of these systems in humans can also generate similar affective states. Systems associated with affect are concentrated in subcortical regions where neural homologies abound. Young human and non-human animals without neocortices retain these brain-mind functions. Furthermore, neural circuits supporting behavioral/electrophysiological states of attentiveness, sleep and decision making appear to have arisen in evolution as early as the invertebrate radiation, being evident in insects and cephalopod mollusks (e.g., octopus).
- Birds appear to offer, in their behavior, neurophysiology, and neuroanatomy a striking case of
 parallel evolution of consciousness. Evidence of near human-like levels of consciousness has
 been most dramatically observed in African grey parrots. Mammalian and avian emotional
 networks and cognitive microcircuitries appear to be far more homologous than previously
 thought. Moreover, certain species of birds have been found to exhibit neural sleep patterns
 similar to those of mammals, including REM sleep and, as was demonstrated in zebra finches,
 neurophysiological patterns, previously thought to require a mammalian neocortex. Magpies in

- particular have been shown to exhibit striking similarities to humans, great apes, dolphins, and elephants in studies of mirror self-recognition.
- In humans, the effect of certain hallucinogens appears to be associated with a disruption in cortical feedforward and feedback processing. Pharmacological interventions in non-human animals with compounds known to affect conscious behavior in humans can lead to similar perturbations in behavior in non-numan animals. In numans, there is evidence to suggest that awareness is correlated with cortical activity, which does not exclude possible contributions by subscritical or early cortical processing, as in visual awareness. Evidence that human and non-human animal emotional feelings arise from homologous subcortical brain networks provide compelling evidence for evolutionarily shared primal affective qualia.

We declare the following: "The absence of a neocortex does not appear to preclude an organism from experiencing affective states. Convergent evidence indicates that non-human animals have the neuroanatomical, neurochemical, and neurophysiological substrates of conscious states along with the capacity to exhibit intentional behaviors. Consequently, the weight of evidence indicates that humans are not unique in possessing the neurological substrates that generate consciousness. Non-human animals, including all mammals and birds, and many other creatures, including octopuses, also possess these neurological substrates."

The Cambridge Declaration on Consciousness was written by Philip Low and edited by Jaak Panksepp, Diana Reiss, David Edelman, Brunovan Swinderne, Philip Low and Christof Koch. The Declaration was publicly proclaimed in Cambridge, UK, on July 7, 2012, at the Francis Crick Memorial Connected on Consciousness in Human and non-Human Animals, at Churchill College, University of Cambridge, by Low, Edelman and Koch. The Declaration has signed by the conference participants that very evening, in the presence of Stephen Hawking in the Balfour Room at the Hotel du Vin in Cambridge, Orl. The signing ceremony was memorialized by CBS 60 Minutes.



In what sense animals are equal to man?

Neuroethics refers to two related fields of study:

- the ethics of neuroscience how to apply ethical principles in neuroscience researches
- the neuroscience of ethics how to apply knowledge from neuroscience to ?????

How to raise human awareness on animal welfare

Is it morally acceptable to rise human awareness on animal welfare???

Explain to ordinary people what is a socio-zoological value of an animal and of a human being

How to produce people with superior mental abilities to animal welfare

ATTENTION PLEASE!!! THANKS!

