EMOTION, COGNITION, SOCIAL INTELLIGENCE AND RELATED BRAIN NETWORK IN INDIAN GREEN RING NECK PARROT *PSITTACULA KRAMERI*

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ABSTRACT – Most of the scientists believe that speech or language is a unique and native ability of human, it is thought to be a unique adaptation to human. In non human species parrots are known for their communication skill and to reproduce the sound combinations like human speech. In our concept human cognition relies on human speech. Some birds (songbirds, humming birds and parrots) come closest to humans in their vocal learning capabilities and higher level of intelligence. Complex meaningful communication is thought to be a most important sign of intelligence in non human species, while other aspect of intelligence and cognition, like emotions, concepts of ideas, conceptual abilities, impacts of social behavior etc. are rarely investigated. Our research elucidates that despite of speech some other unique capabilities of parrots may come close to the humans. In this paper we analyzed variety of conditions which may apply to reveal level of intelligence and cognitive capabilities including all aspect of intelligence like emotions, social behavior and conceptual abilities in parrots. We have found that pet parrots are very good learners, they can maintain emotional relationship with humans. They also do have emotions like human being and they love to show their emotions to their owner. We have observed jealous, fear, love, anger, loneliness, attentive, refusal, and mood as well as complain and facial expressions in Indian parrots. We observed almost all elements of emotions in Indian ring neck. We also studied all types of emotions (simple, complex, pure emotions, propositional attitude and complex propositional attitude) in pet parrots. It has been noticed that parrots are capable to feel, use, communicate, recognize, and can remember emotions. Results of this behavior study may reveal some interesting and unknown facts about parrots.

Key words: Cognition, Indian parrot, emotions, vocal learning, consciousness, *Psittacula krameri*