**DESCRIPTION**

The *Handbook of Behavioral Genetics and Phenotyping* represents an integrative approach to neurobehavioural genetics; worldwide experts in their field will review all chapters. Advanced overviews of neurobehavioural characteristics will add immense value to the investigation of animal mutants and provide unique information about the genetics and behavioural understanding of animal models, under both normal and pathological conditions. Cross-species comparisons of neurobehavioural phenotypes will pave the way for an evolutionary understanding of behaviour.

Moreover, while biological sciences are progressing towards a holistic approach to investigate the complexity of organisms (i.e., "systems biology" approach), an integrated analysis of behavioural phenotyping is still lacking. *The Handbook of Behavioral Genetics and Phenotyping* strengthens the cross-talk within disciplines that investigate the fundamental basis of behaviour and genetics. This will be the first volume in which traditionally distant fields including genomics, behaviour, electrophysiology, neuroeconomics, and computational neuroscience, among others, are evaluated together and simultaneously accounted for during discussions of future perspectives.

**ABOUT THE AUTHOR**

*Valter Tucci* graduated in Psychology in 2000, at the University of Padua, studying the cardiovascular changes associated with NREM and REM sleep states in humans. During his Ph.D studies he investigated the physiological and cognitive traits of
narcoleptic patients. Then he moved to Boston where he studied sleep physiology and cognitive processes in rhesus monkeys and zebrafish. In 2003, he moved to Oxford (UK). At this time, he switched to work on behavioural neurogenetics. He was awarded a Career Development Fellowship by the MRC Mammalian Genetics Unit in Harwell and was then promoted to the post of Investigator Scientist two years later.

Valter Tucci is currently Team Leader of the Neurobehavioural Group at the Italian Institute of Technology (IIT). His research focuses on analysis of the effects that genetic and epigenetic mechanisms exert on sleep and cognition.

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