

ENCYCLOPEDIA OF

HUMAN

BEHAVIOR



SECOND EDITION

VOLUME ONE

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ENCYCLOPEDIA OF **HUMAN BEHAVIOR**

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Volume 1

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University of California, San Diego, California

Volume 1
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V.S. Ramachandran, MD, PhD., is Director of the Center for Brain and Cognition and professor with the Psychology Department and the Neurosciences Program at the University of California, San Diego, and Adjunct Professor of Biology at the Salk Institute. Ramachandran trained as a physician and obtained an MD from Stanley Medical College and subsequently a PhD from Trinity College at the University of Cambridge, where he was elected a Senior Rouse Ball Scholar. Ramachandran's early research was on visual perception, but he is best known for his work in neurology.

He has received many honors and awards, including a fellowship from All Souls College, Oxford, an honorary doctorate from Connecticut College, a gold medal from the Australian National University, the Ariens Kappers Medal from the Royal Netherlands Academy of Sciences for landmark contributions in neuroscience, and the presidential lecture award from the American Academy of Neurology. He is also a fellow of the Neurosciences Institute in La Jolla and a fellow of the Institute for Advanced Studies in Behavioral Sciences at Stanford. He was invited by the BBC to give the Reith Lectures on 'The Emerging Mind' in 2003 and is the first physician/experimental psychologist to be given this honor since the series was begun by Bertrand Russell in 1949 – these lectures were subsequently published as *A Brief Tour of Human Consciousness: From Impostor Poodles to Purple Numbers*.

In 1995, he gave the Decade of the Brain Lecture at the 25th annual (silver jubilee) meeting of the Society for Neuroscience and more recently, the inaugural keynote lecture at the Decade of the Brain conference held by NIMH at the Library of Congress and a public lecture at the Getty Museum in Los Angeles. He also gave the first Hans Lucas Teuber lecture at MIT, the D.O. Hebb lecture at McGill, the Rudel–Moses lecture at Columbia, the Dorcas Cumming (inaugural keynote) lecture at Cold Spring Harbor, the Raymond Adams neurology grand rounds at Massachusetts General Hospital, Harvard, and the Jonas Salk memorial lecture, Salk Institute.

Ramachandran is a trustee for the San Diego Museum of Art and has lectured widely on art, visual perception, and the brain. Ramachandran has published over 120 papers in scientific journals (including three invited review articles in *Scientific American*), coauthor (with Sandra Blakeslee) of *Phantoms in the Brain* that has been translated into eight languages and formed the basis for a two-part series on Channel Four TV in the UK and a one-hour PBS special in the United States. His work is featured frequently in the major news media including BBC and PBS. *Newsweek* magazine recently named him a member of 'The Century Club,' one of the "hundred most prominent people to watch in the next century."

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David M. Buss received his BA from the University of Texas at Austin and his PhD from the University of California at Berkeley. He served in professorial positions at Harvard University, the University of Michigan, and the University of Texas, where he is currently professor of psychology. David Buss received the American Psychological Association (APA) Distinguished Scientific Award for Early Career Contribution to Psychology, the APA G. Stanley Hall Award, and the APA Distinguished Scientist Lecturer Award. The University of Texas awarded Buss the President's Associates Teaching Excellence Award. He served as President of the Human Behavior and Evolution Society (HBES). He is currently Head of the Individual Differences and Evolutionary Psychology Area of the Psychology Department at the University of Texas at Austin.

Buss's books include *The Evolution of Desire: Strategies of Human Mating* (Basic Books; translated into 11 languages); *Evolutionary Psychology: The New Science of the Mind* (Allyn & Bacon); *The Dangerous Passion: Why Jealousy is as Necessary as Love and Sex* (Free Press; translated into 13 languages); *The Murderer Next Door: Why the Mind is Designed to Kill* (Penguin; translated into 12 languages); *The Handbook of Evolutionary Psychology* (Wiley), for which he served as editor; *Why Women Have Sex* (Holt; co-authored with Cindy Meston; translated into 16 languages); and *The Evolution of Personality and Individual Differences* (Oxford University Press). Buss has more than 250 scientific publications to his credit.

Buss has extensive cross-cultural research collaborations and lectures widely within the United States and abroad. His primary research interests include the psychology of sex differences, human sexuality, mating strategies, conflict between the sexes, why people kill, warfare, terrorism, stalking, and the psychology of prestige, status, and reputation.



Richard B. Buxton received his BS (1976) and PhD (1981) degrees in physics from the Massachusetts Institute of Technology, followed by a postdoc in biomedical imaging (PET and MRI) at the Massachusetts General Hospital. He has been on the faculty of the Department of Radiology at the University of California, San Diego, since 1990. Buxton's primary research is in functional magnetic resonance imaging (fMRI), focused on understanding the connections between neural activity, blood flow, and energy metabolism in the human brain. His experimental work combines arterial spin labeling (ASL) methods with blood oxygenation-level dependent (BOLD) methods to estimate changes in brain oxygen metabolism in response to a stimulus or a drug. His more theoretical work involves mathematical modeling of the imaging methods, the BOLD effect, and oxygen transport from blood to tissue. Buxton is based at the Center for fMRI and served as the center's founding Director (2000–2007). He has written a textbook on fMRI, now in its second edition, published by Cambridge University Press (2009).



Nicholas Christenfeld received a bachelor's degree in psychology and social relations from Harvard, and a doctorate in social psychology from Columbia, and joined the faculty at the University of California – San Diego and has remained there for two decades. His research program comprises multiple, changing, only partly overlapping areas. He has addressed such topics as why some people say 'um' so often, whether babies look like their mothers or their fathers, how we choose which box of cereal to buy, why a baseball season is ten times as long as a football season, which parts of the month carry the greatest risk of untimely death, whether the support of a woman is better for one's blood pressure than that of a man, what sort of music might be useful in stress reduction, whether some initials extend and some shorten the lives of their bearers, if people who live in, or even just visit, New York City are at risk of heart attacks, and whether story spoilers do spoil stories. Currently, Christenfeld is also exploring the role of forgiveness in poststress cardiovascular recovery, the impact of crying on hormones, and the nature of a sense of humor. An overarching theme, if one exists, might be the empirical exploration of the everyday phenomena of the world.



Orrin Devinsky is professor of neurology, neurosurgery, and psychiatry at New York University (NYU). He directs the NYU Epilepsy Center and St. Barnabas Institute of Neurology. His research on epilepsy includes phenomic-genomic relations, sudden unexpected death in epilepsy, surgical therapies, new medicines and devices, quality of life, cognition and behavior, and neuroinflammation. His research on behavioral neurology includes hyperfamiliarity, delusions, autonomic nervous function, and anterior cingulate cortex functions. He founded the organization Finding A Cure for Epilepsy and Seizures and cofounded epilepsy.com and the Epilepsy Therapy Project. He serves on the boards of these organizations and has served on the board of the American Epilepsy Society and Epilepsy Foundation. His other interests include the history of neuropsychiatry, evolution, anthropology, and animal intelligence.



Albert M. Galaburda is a cognitive neurologist and neuroscientist, specializing in developmental cognitive disorders in adults and children. He received his medical degree from Boston University in 1971, trained in neurology at Harvard Medical School from 1973 to 1976, and began his research on dyslexia in 1979, when with neuropathologist Thomas Kemper, he reported for the first time minor cortical malformations in the brain of an adult dyslexic who had died in an accident. Following that original report, he published several other cases with similar malformations and launched a research program modeling these malformations in rodent models, which continues to this date.

He uses RNAi and transgenic technologies in his present research to induce cortical malformations in rat and mouse brains, which in turn are tested anatomically, molecularly, and behaviorally in collaboration with Glenn Rosen, Joseph LoTurco, and Holly Fitch, respectively. This latest research has shown that manipulation of dyslexia candidate gene homolog's I rodent embryos results in molecular interference with neuronal migration, cell autonomous and noncell autonomous effects on cortical development that mimic the changes seen in dyslexic brains, and behavioral changes affecting auditory perception. *Ex vivo* imaging of the brains of genetically manipulated animals discloses changes in cortical circuits affecting corticocortical and corticothalamic relationships.

Galaburda is presently the Emily Fisher Landau Professor of Neurology at Harvard Medical School, and Head of the Cognitive Neurology Unit at Beth Israel Deaconess Medical Center in Boston. He has published more than 150 scholarly articles on various topics of cognitive anatomy, cognitive neurology, and dyslexia, as well as several books on related topics. Galaburda has received the Pattison Prize in Neuroscience, the Neuronal Plasticity Prize from the IPSEN Foundation of France, Scientist of the Year from the Association for Children with Learning Disabilities (now, Learning Disorders Association), and has been elected to membership in the American Neurological Association. He has delivered the Rita Rudel Memorial Lecture, the Norman Geschwind Memorial Lecture, the Sylvio Conte Decade of the Brain Symposium Lecture, and the Curt von Euler Memorial Lecture, among others. His research is funded by the Eunice Kennedy Shriver National Institute of Child Health & Human Development. His teaching is funded by the National Institute of Neurological Disorders and Stroke.



William Hirstein is Professor and Chair of the Philosophy Department at Elmhurst College, Elmhurst, IL, USA. He received his PhD from the University of California, Davis, in 1994. He is the author of several books, including *On the Churchlands* (Wadsworth Publishing, 2004), *Brain Fiction: Self-Deception and the Riddle of Confabulation* (MIT Press, 2005), and *Mindmelding: Consciousness, Neuroscience, and the Mind's Privacy* (Oxford University Press, 2012). His other interests include autism, sociopathy, brain laterality, sense of self, and the misidentification syndromes.



William G. Iacono is Regents Professor of Psychology, Psychiatry, Law, and Neuroscience; Distinguished McKnight University Professor; Adjunct Professor of Child Development; and Codirector of the Minnesota Center for Twin & Family Research at the University of Minnesota.

He studies the development of common mental disorders, focusing on the genetic liability for substance abuse and antisocial behavior. He is past president of the Society for Psychophysiological Research (SPR). He has also received the Distinguished Contributions to Psychophysiology Award from SPR for his lifetime contributions to this field. In addition, he has been awarded the Distinguished Scientist Award from the Society for a Science of Clinical Psychology. His research is funded by grants from the National Institute of Mental Health, National Institute on Drug Abuse, and National Institute on Alcoholism and Alcohol Abuse. He currently holds a National Institute of Health MERIT (Method to Extend Research in Time) Award for his research achievement. He has published over 350 scientific articles.



John T. Jost is Professor of Psychology at New York University. His research, which addresses stereotyping, prejudice, political ideology, and system justification theory, has appeared in top scientific journals and received national and international media attention. He has published over 90 articles and chapters and coedited four books: *The Psychology of Legitimacy* (2001), *Perspectivism in Social Psychology* (2004), *Political Psychology: Key Readings* (2004), and *Social and Psychological Bases of Ideology and System Justification* (2011). Jost has received numerous honors, including the Gordon Allport Intergroup Relations Prize (three times), Erik Erikson Award for Early Career Research Achievement in Political Psychology, International Society for Self and Identity Early Career Award, Society for Personality and Social Psychology Theoretical Innovation Prize, Society of Experimental Social Psychology Career Trajectory Award, and the Morton Deutsch Award for Distinguished Scholarly and Practical Contributions to Social Justice.



Jerome Kagan is Emeritus Professor of Psychology at Harvard University. His research over the past 57 years has centered on the cognitive and emotional development of infants and children. During the last 30 years, he and his colleagues have concentrated on the temperamental biases called high and low reactivity in infants. He is a fellow of the American Academy of Arts and Sciences and a member of the Institute of Medicine in the National Academy of Sciences. He has received distinguished scientist awards from the American Psychological Association, the Society for Research in Child Development, and the Child-Mind Institute. Kagan received his PhD from Yale University in 1954 and taught at the Ohio State University and Antioch College before joining the Harvard faculty in 1964.



Leif Edward Ottesen Kennair, PhD, is Head of Department at the Department of Psychology, Norwegian University of Science and Technology, Trondheim, Norway. He graduated as a clinical psychologist from the University of Bergen, 1999, and is a specialist of clinical adult psychology (Norwegian Psychology Association), and a qualified cognitive therapist and supervisor of cognitive-behavioral therapy (Norwegian Cognitive Therapy Association). He has worked as a clinical psychologist/chief psychologist at the Nordfjord Psychiatric Centre and as a researcher at St. Olav's Hospital, Trondheim. His research interests span from mainstream clinical psychology efficacy research (generalized anxiety disorder, OCD) to evolutionary psychology (evolutionary psychopathology, the evolutionary psychology of war, mate choice and sexual behavior). Kennair's PhD thesis was on the topic of evolutionary clinical psychology. He has written an introduction to evolutionary psychology, which has been published in Norwegian and Danish. He lectures on evolutionary psychology, behavioral genetics, and personality psychology and is a much-used lecturer for training psychologists and psychiatrists on topics such as cognitive-behavior therapy and treatment of anxiety and OCD.



David E. Presti is a neurobiologist and cognitive scientist at the University of California in Berkeley, where he has taught in the Department of Molecular and Cell Biology for more than 20 years. For more than a decade (1990–2000) he also worked in the treatment of addiction and of posttraumatic stress disorder (PTSD) at the Department of Veterans Affairs Medical Center in San Francisco. His areas of expertise include the chemistry of the human nervous system, the effects of drugs on the brain and the mind, the treatment of addiction, and the scientific study of the mind and the consciousness. He has doctorates in molecular biology and biophysics from the California Institute of Technology and in clinical psychology from the University of Oregon. Since 2004, he has also been teaching neuroscience to Tibetan monks in India in a program initiated by the Dalai Lama. His primary research interest is the relation between mentality, consciousness, and brain physiology, the so-called mind-body problem.

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