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Bright Air, Brilliant Fire is a book that provides a window on that understanding. About the Author Gerald M. Edelman is director of the Neurosciences Institute and chairman of the Department of Neurobiology at the Scripps Research Institute.

[Bright Air, Brilliant Fire: On The Matter Of The Mind ...](#)

Buy Bright Air, Brilliant Fire: On the Matter of the Mind (Penguin science) New edition by Edelman, Gerald M. (ISBN: 9780140172447) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Bright Air, Brilliant Fire: On The Matter Of The Mind: Author: Gerald M. Edelman: Edition: illustrated: Publisher: Basic Books, 1992: Original from: the University of Michigan: Digitized: Sep 30,...

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Other articles where Bright Air, Brilliant Fire: On The Matter of the Mind is discussed: Gerald Maurice Edelman: ...a scientific audience and in Bright Air, Brilliant Fire: On the Matter of the Mind (1992) for laypersons. He also wrote Wider than the Sky: The Phenomenal Gift of Consciousness (2004) and Second Nature: Brain Science and Human Knowledge (2006).

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Bright Air, Brilliant Fire: On the Matter of the Mind (Basic Books, 1992, Reprint edition 1993). ISBN 0-465-00764-3; The Brain, Edelman and Jean-Pierre Changeux, editors, (Transaction Publishers, 2000). ISBN 0-7658-0717-3

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Bright Air, Brilliant Fire is one of those rare books that comes alive in the reader's hands. It is beautifully written, conveying the clarity and passion of Edelman's creative thinking, and making...

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Bright Air, Brilliant Fire: On the Matter of the Mind, Gerald M. Edelman. 1992. Basic Books, New York, NY. 280 pages. ISBN: 0-465-05245-2. \$25.00

[Bright Air, Brilliant Fire: On the Matter of the Mind ...](#)

Bright Air, Brilliant Fire. First edition, first printing, presentation copy, inscribed by the author to Sydney Brenner on the front free endpaper, "For Sydney with affection and admiration Gerry". Edelman (1929-2014) won the Nobel Prize for Physiology or Medicine in 1972 for his work on the immune system with Rodney Robert Porter. Brenner (1927-2019), one of the leading biologists of the 20th ...

[Bright Air, Brilliant Fire](#)

In "Bright Air, Brilliant Fire: On the Matter of the Mind," Gerald M. Edelman sides with the biologists who consider it a little parochial to suppose that the existence of the universe depends somehow on brain cells -- tiny sacs of seawater that developed the ability to strike sparks of electricity when predators approach.

["Edelman Review" - Santa Fe Institute](#)

In Bright Air, Brilliant Fire, Gerald M. Edelman accomplishes what seems to be an almost impossible task: He helps the non-scientist to understand the connections between what is known about the mind with what is beginning to be known about the brain. For Edelman, this subject "is the most important one imaginable" because it is charged "with ...

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Bright Air, Brilliant Fire: On the Matter of the Mind by Gerald M. Edelman (Paperback, 1993) Be the first to write a review. The lowest-priced brand-new, unused, unopened, undamaged item in its original packaging (where packaging is applicable).

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The brain is like the immune system. Both recognize external influences and respond to them. A type of memory is present in both brain and immune cells. The analogies between the brain and the immune system have been a topic of Gerald Edelman's writings for about 20 years. Apart from his more recent...

[Bright Air, Brilliant Fire: On the Matter of the Mind ...](#)

Bright Air, Brilliant Fire is a book that provides a window on that understanding. About the Author. Gerald M. Edelman is director of the Neurosciences Institute and chairman of the Department of Neurobiology at the Scripps Research Institute. He received the Nobel Prize for Physiology or Medicine in 1972.

We are on the verge of a revolution in neuroscience as significant as the Galilean revolution in physics or the Darwinian revolution in biology. Nobel laureate Gerald M. Edelman takes issue with the many current cognitive and behavioral approaches to the brain that leave biology out of the picture, and argues that the workings of the brain more closely resemble the living ecology of a jungle than they do the activities of a computer. Some startling conclusions emerge from these ideas: individuality is necessarily at the very center of what it means to have a mind, no creature is born value-free, and no physical theory of the universe can claim to be a "theory of everything" without including an account of how the brain gives rise to the mind. There is no greater scientific challenge than understanding the brain. Bright Air, Brilliant Fire is a book that provides a window on that understanding.

A look at how the mind works discusses computers, evolution, Descartes, Schro+a5dinger, the nature of perception, language, and individuality and ponders connections between psychology, physics, medicine, philosophy, and more. National ad/promo.

This influential book presents a new view of the function of the brain and nervous system.

Burgeoning advances in brain science are opening up new perspectives on how we acquire knowledge. Indeed, it is now possible to explore consciousness - the very centre of human concern - by scientific means. In this illuminating book, Dr. Gerald M. Edelman offers a new theory of knowledge based on striking scientific findings about how the brain works. And he addresses the related compelling question: does the latest research imply that all knowledge can be reduced to scientific description? Edelman's brain-based approach to knowledge has rich implications for our understanding of creativity, of the normal and abnormal functioning of the brain, and of the connections among the different ways we have of knowing. While the gulf between science and the humanities and their respective views of the world has seemed enormous in the past, the author shows that their differences can be dissolved by considering their origins in brain functions. He foresees a day when brain-based devices will be conscious, and he reflects on this and other fascinating ideas about how we come to know the world and ourselves.

What goes on in our head when we have a thought? Why do the physical events that occur inside a fistful of gelatinous tissue give rise to the world of conscious experience? In The Universe of Consciousness , Gerald Edelman and Giulio Tononi present for the first time a full-scale theory of consciousness based on direct observation of the human brain in action. Their pioneering work, presented here in an elegant style, challenges much of the conventional wisdom about consciousness. The Universe of Consciousness has enormous implications for our understanding of language, thought, emotion, and mental illness.

One place where the scientific debate has been written for a broad audience is in the book review column of the international journal Artificial Intelligence, which has evolved from simple reviews to a multidisciplinary forum where reviewers and authors debate the latest, often competing, theories of human and artificial intelligence.

One of the vastly exciting areas in modern science involves the study of the brain. Recent research focuses not only on how the brain works but how it is related to what we normally call the mind, and throws new light on human behavior. Progress has been made in researching all that relates to interior man, why he thinks and feels as he does, what values he chooses to adopt, and what practices to scorn. All of these attributes make us human and help to explain art, philosophy, and religions. Motion, sight, and memory, as well as emotions and the sentiments common to humans, are all given new meaning by what we have learned about the brain. In an introductory essay, Vernon B. Mountcastle traces the progress made in brain science during this century. Gerald M. Edelman touches upon features of the brain that challenge the picture of the brain as a machine. Semir Zeki discusses artists and artistic expression as an extension of the function of the brain. Richard S. J. Frackowiak probes the functional architecture of the brain. Mark F. Bear and Leon N Cooper explore whether complex neural systems can be illuminated by theoretical structures. Jean-Pierre Changeux sheds light on the knowledge gained in recent years concerning the neurobiology and pharmacology of drug action and addiction. Alexander A. Borbuly and Giulio Tononi ponder the quest for the essence of sleep, illuminating its complex dynamic process. George L. Gabor Miklos examines variations in neuroanatomies and sensory systems between individuals of the same species as well as variations across the evolutionary spectrum. Emilio Bizzi and Ferdinando A. Mussa-Ivaldi explain how scientists have approached the study of movement, the problems encountered, and the solutions proposed. Marcel Kinsbourne explores the unity and diversity in the human brain. In the concluding essay, Andy Clark points to recent work in neuroscience, robotics, and psychology that stresses the unexpected intimacy of brain, body, and world, supporting his belief that the mind is best understood as a brain at home in its proper bodily cultural and environmental niche. The breadth and scope of subjects covered in this volume attest to the extraordinary progress taking place in the study of the brain. This brilliant collection of essays by those at the forefront of research in this area will be of interest to all those interested in human behavior. Gerald M. Edelman is director of the Neurosciences Institute and chairman of the Department of Neurobiology at the Scripps Research Institute. Jean-Pierre Changeux is professor at the Collbge de France and the Institute

Pasteur.

Essays discuss the human brain, memory, learning, computer models of education, artificial intelligence, and religious and scientific views of human nature

Nobel Prize-winning neuroscientist, Dr. Gerald Edelman, offers an up-to-date account of the workings of the brain and the connections between mind and body. Edelman explores the relation of consciousness to causation, evolution, the development of the self, and the origins of feelings, learning, and memory, basing his discussion on recent advances in science and medicine.

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