

# Molecules Of Emotion

Molecules Of Emotion Understanding Molecules of Emotion: The Bridge Between Mind and Body Molecules of emotion represent a groundbreaking concept in neuroscience and psychology, highlighting the intricate biochemical processes that underlie our emotional experiences. These molecules are not merely passive participants in our bodily functions; they actively influence how we think, feel, and behave. The study of molecules of emotion bridges the gap between the physical and emotional realms, revealing how our mental states are deeply intertwined with molecular activity within our bodies. This understanding has profound implications for mental health, medicine, and personal well-being. In this comprehensive exploration, we will delve into what molecules of emotion are, how they work, their biological foundations, and their significance in understanding human health and behavior. What Are Molecules of Emotion? Molecules of emotion refer to specific biochemical substances within the body—primarily neuropeptides and neurotransmitters—that mediate and influence emotional states. These molecules serve as messengers, transmitting signals between neurons and other cells, thereby shaping our emotional responses, perceptions, and physical health. Key Components of Molecules of Emotion - Neurotransmitters: Chemical messengers that transmit signals across synapses in the nervous system. - Neuropeptides: Small protein-like molecules that modulate neuronal activity and influence a wide range of bodily functions. - Hormones: Chemical substances secreted into the bloodstream that affect various tissues and organs, often playing a role in emotional regulation. The Concept Origin The idea of molecules of emotion was popularized by Dr. Candace Pert, a neuroscientist whose pioneering research in the 1970s and 1980s uncovered the biochemical basis of

emotion. Her discoveries challenged traditional views that separated mind and body, emphasizing instead their interconnection through molecular pathways. The Biological Foundations of Molecules of Emotion Understanding molecules of emotion requires a grasp of the neurobiological systems involved in emotional regulation. The Brain and Emotional Processing The brain contains several key regions responsible for emotion, including:

- Limbic System: The emotional center, including the amygdala and hippocampus.
- Prefrontal Cortex: Responsible for decision-making and regulation of emotional responses.
- Hypothalamus: Regulates hormonal responses linked to emotion. These regions communicate via complex networks of neurons and chemical messengers, with molecules of emotion serving as critical mediators.

The Role of Neurotransmitters and Neuropeptides - Neurotransmitters: Such as serotonin, dopamine, norepinephrine, and gamma-aminobutyric acid (GABA), influence mood, motivation, and arousal.

- Neuropeptides: Include substance P, endorphins, oxytocin, and vasopressin, which modulate pain, social bonding, and stress responses.

The Endocrine System and Hormonal Influence Hormones like cortisol, adrenaline, and estrogen also play vital roles in emotional regulation, often in response to stress or environmental stimuli.

The Impact of Molecules of Emotion on Physical and Mental Health The biochemical interplay of molecules of emotion affects more than just mood; it influences overall health and disease susceptibility.

How Molecules of Emotion Affect Our Bodies

- Stress Response: Activation of the hypothalamic-pituitary-adrenal (HPA) axis leads to cortisol release, affecting immune function and metabolism.
- Immune Modulation: Certain neuropeptides and cytokines regulate inflammation and immune responses, linking emotional states to physical health.
- Pain Perception: Endorphins and substance P modulate pain signals, affecting how we experience discomfort or pleasure.

Emotional States and Molecular Profiles Different emotional states are associated with specific molecular signatures:

- Fear and Anxiety: Elevated cortisol, adrenaline, and certain neuropeptides.
- Happiness and Love: Increased serotonin, dopamine, and oxytocin levels.
- Stress and Depression: Imbalances in serotonin, norepinephrine, and neuropeptides like substance P.

Applications and Implications of Molecules of Emotion

Emotion Understanding molecules of emotion offers practical applications across various fields. Mental Health and Psychotherapy - Biochemical Markers: Identifying molecular imbalances can aid in diagnosing and treating mental health conditions. - Personalized Medicine: Tailoring therapies based on individual molecular profiles enhances effectiveness. Integrative Medicine and Wellness - Mind-Body Techniques: Practices like meditation, yoga, and biofeedback influence molecular activity, promoting emotional balance. - Nutrition: Diet impacts neurotransmitter synthesis and neuropeptide production, affecting mood and resilience. Pharmacology and Drug Development - Targeted Treatments: Developing medications that modulate specific molecules of emotion can improve outcomes for depression, anxiety, and PTSD. - Neuroplasticity: Understanding molecular pathways enables strategies to promote brain adaptability and recovery. 3

The Future of Research on Molecules of Emotion The science surrounding molecules of emotion is rapidly evolving, with emerging technologies shedding light on their complexities. Advances in Neuroscience and Molecular Biology - Genetic and Epigenetic Studies: Exploring how genes influence the production and regulation of molecules of emotion. - Imaging Techniques: Functional MRI and PET scans reveal how molecular activity correlates with emotional states. Potential for New Therapies - Biomarker Development: Identifying molecular signatures for early diagnosis. - Novel Interventions: Using nanotechnology, gene editing, or personalized pharmaceuticals to modulate molecular activity. Challenges and Ethical Considerations - Complexity of Interactions: The vast network of molecules makes targeted intervention challenging. - Ethical Use: Ensuring privacy and consent in molecular diagnostics and personalized treatments.

Practical Tips to Influence Your Molecules of Emotion While science advances, individuals can take steps to positively influence their molecular health. Lifestyle Choices - Exercise Regularly: Enhances serotonin, dopamine, and endorphin production. - Eat a Balanced Diet: Supports neurotransmitter synthesis with nutrients like amino acids, omega-3 fatty acids, and vitamins. - Practice Mindfulness and Meditation: Reduces stress hormones and promotes beneficial neuropeptide activity. - Build Strong Social Connections: Oxytocin release is

stimulated through positive social interactions. - Prioritize Sleep: Restores hormonal balance and neurochemical levels. Stress Management Strategies - Deep breathing, progressive muscle relaxation, and engaging in hobbies can modulate stress-related molecules. Seeking Professional Support - Psychological counseling, psychotherapy, and, when appropriate, medication can help correct molecular imbalances contributing to emotional distress. Conclusion: Embracing the Molecular Basis of Emotion The concept of molecules of emotion underscores the profound interconnectedness of our biological and emotional worlds. Recognizing that our feelings are rooted in biochemical processes opens new avenues for understanding, healing, and personal growth. As research continues to unveil the complex molecular dance behind our emotions, we gain the power to influence our mental and physical health through conscious choices, medical advancements, and holistic practices. By appreciating the molecules of emotion that shape our inner experiences, we move toward a more integrated view of human health—one that honors the unity of mind and body in the pursuit of well-being and fulfillment. QuestionAnswer 4 What are 'molecules of emotion' and who popularized this concept? Molecules of emotion are biochemical substances, like neurotransmitters and hormones, that influence our emotional states. The concept was popularized by neuroscientist Candace Pert, who discovered that these molecules are directly involved in the experience of emotions and can affect both brain and body functions. How do molecules of emotion impact our mental and physical health? Molecules of emotion, such as serotonin and endorphins, regulate mood, stress levels, and immune responses. Imbalances or disruptions in these molecules can contribute to mental health issues like depression or anxiety, as well as physical conditions related to inflammation or immune function. Can understanding molecules of emotion lead to new treatments for emotional disorders? Yes, understanding how specific molecules influence emotions opens pathways for targeted therapies, including pharmaceuticals and mind-body interventions, aimed at restoring balance in these biochemical systems and improving mental health outcomes. Are molecules of emotion influenced by lifestyle factors? Absolutely. Factors such as diet, exercise, stress management,

and social connections can affect the production and regulation of molecules of emotion, thereby influencing our emotional well-being and overall health. How does the concept of molecules of emotion integrate with holistic approaches to health? The concept supports holistic health by emphasizing the interconnectedness of mind and body. It encourages practices like meditation, acupuncture, and mindfulness that can modulate biochemical molecules, promoting emotional balance and physical health simultaneously. **Molecules of Emotion: Unlocking the Biochemical Foundations of Human Feelings** In the quest to understand what makes us human—our thoughts, feelings, consciousness—science has long sought to bridge the gap between the physical and the emotional. Central to this pursuit is the concept of molecules of emotion, a term popularized by neuroscientist and psychiatrist Candace Pert in her groundbreaking work. This phrase encapsulates the idea that specific biochemical compounds within our bodies not only facilitate physiological processes but also underpin our emotional experiences. As research advances, the intricate dance of neurotransmitters, hormones, neuropeptides, and receptor molecules emerges as a complex language through which our bodies and brains communicate, shaping our mood, cognition, and behavior. This article delves deeply into the concept of molecules of emotion, exploring their biological roles, mechanisms, and implications for health and consciousness. By examining the molecular underpinnings of emotion, we aim to shed light on how our neurochemical landscape influences our subjective experience and what this means for future therapeutic interventions. --- **Molecules Of Emotion 5 Foundations of Molecular Emotion: Bridging Biology and Psychology** The idea that molecules influence our emotional state aligns with a biological reductionist view—that our feelings are rooted in biochemical processes. Traditionally, psychology has approached emotions as subjective phenomena, while biology focused on neural circuits and physiology. The recognition of molecules as key players marked a paradigm shift, emphasizing the biochemical basis of emotion as an integral component of our mental life. Candace Pert's pioneering research in the 1970s and 1980s identified neuropeptides—small protein-like molecules—as crucial mediators in brain function and

emotional regulation. Her work demonstrated that these molecules are not confined solely to the brain but are pervasive throughout the nervous system and body, operating via specific receptor sites that influence mood, perception, and behavior. The core principle is that emotions are not just abstract feelings but are mediated by a web of molecular interactions that encode and transmit emotional information across neural and bodily systems. This biochemical perspective provides a framework for understanding how experiences, thoughts, and environmental stimuli can induce specific molecular changes, which in turn generate particular emotional states. --- Key Molecules of Emotion: Neurotransmitters, Neuropeptides, and Hormones The landscape of molecules involved in emotion is vast, but several classes stand out for their central roles: Neurotransmitters These are chemical messengers that transmit signals across synapses between neurons. Key neurotransmitters involved in emotion include: - Serotonin: Often associated with mood regulation, feelings of well-being, and happiness. Imbalances are linked with depression and anxiety. - Dopamine: Related to reward, motivation, and pleasure. Dysregulation can lead to addiction, depression, or schizophrenia. - Norepinephrine: Involved in arousal, alertness, and stress response. Abnormal levels are connected with anxiety and mood disorders. - Gamma-Aminobutyric Acid (GABA): The primary inhibitory neurotransmitter, promoting relaxation and reducing neuronal excitability. Neuropeptides These small protein molecules modulate neuronal activity and influence emotional states over longer timescales: - Endorphins: Natural painkillers, associated with feelings of euphoria and stress reduction. - Oxytocin: Sometimes called the "love hormone," it plays a role in social bonding, trust, and emotional intimacy. - Vasopressin: Involved in social behaviors and pair bonding. - Substance P: Mediates pain perception and stress responses. Hormones Hormones are secreted into the bloodstream and impact brain function and emotion: - Cortisol: The primary stress hormone, influencing mood, memory, and immune function. - Adrenaline (epinephrine): Prepares the body for 'fight or flight' responses. - Estrogen and Testosterone: Affect mood and emotional regulation, often explaining gender differences in emotional responses. --- The Receptor

**Landscape: How Molecules Communicate** The efficacy of molecules of emotion depends on their interaction with specific receptor sites—proteins embedded in cell membranes that recognize and respond to particular molecules. The receptor landscape determines how a particular molecule influences cell activity and, consequently, emotional states.

**Receptor Types and Their Roles**

- **G-protein-coupled receptors (GPCRs):** The largest receptor family, involved in sensing neurotransmitters like serotonin, dopamine, and adrenaline.
- **Ionotropic receptors:** Ligand-gated ion channels that mediate rapid responses, such as GABA<sub>A</sub> receptors.
- **Nuclear hormone receptors:** Like estrogen and testosterone receptors, these influence gene expression over longer periods. The diversity and density of receptor sites in brain regions such as the amygdala, hippocampus, and prefrontal cortex shape how molecules impact emotional processing.

**Receptor Plasticity and Emotional States** Receptor sensitivity and expression levels can change with experience, learning, and environmental factors. This receptor plasticity underpins phenomena like emotional resilience, susceptibility to mood disorders, and the effects of pharmacological treatments.

--- **Biochemical Pathways and Emotional Regulation** Understanding the pathways through which molecules influence emotion is crucial for grasping the complexity of the biochemical basis of feelings.

**Molecules Of Emotion 7 Serotonergic System** Originating from the raphe nuclei in the brainstem, serotonin modulates mood, sleep, and appetite. Its pathways project widely, influencing cortical and limbic areas involved in emotional regulation.

**Dopaminergic System** Centered in the midbrain's ventral tegmental area (VTA) and substantia nigra, dopamine pathways are implicated in reward and motivation. Dysregulation can lead to anhedonia (loss of pleasure) or hyperactivity linked to psychosis.

**Stress and the HPA Axis** The hypothalamic-pituitary-adrenal (HPA) axis orchestrates the body's response to stress via cortisol release. Chronic dysregulation of this pathway is associated with depression and anxiety.

Interconnections among these systems demonstrate the holistic nature of emotional regulation, where multiple molecules and pathways converge to produce the rich tapestry of human feelings.

--- **Implications for Mental Health and Therapeutics** The molecular understanding of emotion

has revolutionized psychiatric treatment. Pharmacology targeting specific molecules can modulate emotional states: - Selective Serotonin Reuptake Inhibitors (SSRIs): Increase serotonin availability, alleviating depression and anxiety. - Dopamine Agonists/Antagonists: Used in conditions like Parkinson's disease and schizophrenia. - Oxytocin Administration: Explored as a potential treatment for social deficits in autism spectrum disorder and PTSD. Furthermore, emerging therapies aim to influence receptor sensitivity and neuropeptide levels, moving toward personalized medicine based on molecular profiles. Future Directions and Challenges Despite significant advances, many challenges remain: - The complexity of molecular interactions and individual variability complicate treatment. - The subjective nature of emotion makes measurement and validation difficult. - Ethical considerations surround manipulating emotional molecules. Ongoing research aims to map the complete molecular landscape of emotion, understanding how genetic, epigenetic, and environmental factors influence this biochemical web. --- Concluding Thoughts: The Molecular Symphony of Human Molecules Of Emotion 8 Emotion The notion of molecules of emotion underscores a profound truth: our feelings are not merely abstract experiences but are deeply rooted in the biochemical symphony within our bodies. From neurotransmitters and neuropeptides to hormones and receptor networks, these molecules orchestrate the complex processes that generate our emotional life. Recognizing the molecular basis of emotion opens pathways to novel therapies, enhanced understanding of mental health, and perhaps a deeper appreciation of our biological essence. As science continues to unravel these molecular mechanisms, we edge closer to comprehending how the chemistry of our bodies shapes the very fabric of our subjective experience. In essence, understanding molecules of emotion is not just a scientific pursuit but a journey into the core of what it means to be human—embodied, feeling, conscious beings intricately connected to the biochemical fabric of life. emotional chemistry, neuropeptides, brain chemistry, emotional regulation, neurobiology, psychoneuroimmunology, neurotransmitters, emotional health, molecular biology, mind- body connection

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emotions fleeting insubstantial changeable and ambiguous seem to defy study and analysis nothing is more complex mysterious and subject to conflicting theories and interpretations than human emotion yet the central importance of emotion in human affairs is undeniable emotions affect all levels of life personal organizational political cultural economic and religious emotions give meaning to life emotional disturbances can destroy that meaning how should emotions be studied how can an understanding of the inner feelings of individuals

illuminate important social interactions and human developments in his book norman denzin presents a systematic in depth analysis of emotion that combines new theoretical advances with practical applications based on an intensive critical examination of classical and modern theoretical research and on revealing personal interviews in which ordinary people express their emotional lives he builds a new framework for understanding ordinary emotions and emotional disturbances denzin analyzes how people experience joy and pain love and hate anger and despair friendship and alienation and examines the personal psychological social and cultural aspects of human emotion to provide new perspectives for understanding human experience and social interactions he offers new insights on the role of emotions in family violence and recommends ways of helping people escape from recurring patterns of violence and in criticizing current conceptions of emotionally disturbed people he reveals the nature of their inner lives and the ways they perceive and relate to others in sum this book presents new insights on human relationships and human experience it is now available in paperback for the first time with a new introduction by the author

widely regarded as the standard reference in the field this handbook comprehensively examines all aspects of emotion and its role in human behavior the editors and contributors are foremost authorities who describe major theories findings methods and applications the volume addresses the interface of emotional processes with biology child development social behavior personality cognition and physical and mental health also presented are state of the science perspectives on fear anger shame disgust positive emotions sadness and other distinct emotions illustrations include seven color plates

despite how much we know about emotion social functions of emotion and talking about emotion at workuniquely examines the utility of emotion in organizations against the ways in which both individuals and groups talk about them drawing on psychological and sociological

research this book provides groundbreaking insights for understanding how emotions are used in the workplace bringing together contributions from leading emotion researchers this book features chapters focusing on 10 emotions ranging from awe to shame through its exploration of the ways each emotion functions in relation to how we talk about them this book injects fresh theoretical and practical momentum into how our discussions of workplace emotion can affect how emotional events are appraised over time and place this in turn influences the causes expressions and consequences of emotions in the workplace with its novel approach this book will be an invaluable tool for academics researching emotion as well as postgraduate students working in the social sciences seeking reference material on emotion hr managers and general readers seeking greater insight into emotions at work will also find this book to be a useful tool contributors include n m ashkanasy r a baron s connelly m dasborough c d fisher d geddes p harvey m l a hayward p j jordan s kiffin petersen h c lench d lindebaum k e moura k a perez r h smith r k smith p n stearns a c troth m r turner k l tyran t s h wingenbach

this textbook discusses fundamental issues in the definition and measurement of emotion including conscious and unconscious processes the ways in which emotions arise in and are constrained by social situations and social processes the regulation and sharing of emotion and their effects on mental health and the manner in which culture including subculture shapes or moderates some of these processes the book also focuses on the component processes of emotion their functions and the ways in which these interact with the social environment rather than deny either that emotions are biologically determined or that they are culturally created or shaped both biology and social situation are treated as important forces in the elicitation and the experience of emotion each section of the book is structured around specific approaches or models and the precise questions that they were constructed to address the theories and models are also placed in their historical context discussion of the different approaches is elaborated by summaries of the extant scientific evidence as well as examples of specific experiments or studies that were designed to evaluate the question timely engaging real world examples are used

from a variety of international contexts the pedagogic features including concise introductions and summaries discussion questions and suggested readings have been incorporated into the volume making this an ideal text for a course of emotion which can be found as an option within many social psychology and cognitive psychology courses

from darwin to star trek evans offers a lively look at the science of emotions and finds that whether we live in the shadow of times square or in the depths of the rain forest all humans feel disgust joy surprise anger fear and distress 20 halftones

this study addresses two desiderata of historical emotion research reflecting on the interdependence of textual functions and the representation of emotions and acknowledging the interdependence of studies on the premodern and modern periods in the history of emotion contemporary research on the history of emotion is characterised by a proliferation of studies on very different eras authors themes texts and aspects the enthusiasm and confidence with which situations actions and interactions involving emotions in history are discovered however has led to overly direct attempts to access the represented objects emotions feelings affects as a result too little attention has been paid to the conditions and functions of their representations that is why this study engages with the emotion research of historians from an unashamedly philological perspective such an approach provides among other things insights into the varied often contradictory observations that can be made about the history of emotion in modernity and premodernity

the expression of emotion collects cutting edge essays on emotional expression written by leading philosophers psychologists and legal theorists it highlights areas of interdisciplinary research interest including facial expression expressive action and the role of both normativity and context in emotion perception whilst philosophical discussion of emotional expression has addressed the nature of expression and its relation to action theory psychological work on the topic has focused on the specific mechanisms underpinning different

facial expressions and their recognition further work in both legal and political theory has had much to say about the normative role of emotional expressions but would benefit from greater engagement with both psychological and philosophical research in combining philosophical psychological and legal work on emotional expression the present volume brings these distinct approaches into a productive conversation

what are emotions why are emotions important in our lives emotion the basics answers these questions and in doing so provides accounts of the nature and value of particular emotions that are central to human existence the overarching message is that our lives both individual and social would be significantly impoverished without the emotions

theories of emotion is a philosophical introduction to the most influential theories of emotion of the past 60 years in philosophy psychology and biology this multi disciplinary approach provides the reader with a one stop shop for encountering the key debates and cutting edge ideas in what is becoming a central focus of contemporary thought an introductory chapter on definitions of emotion is followed by three main sections on the way emotions are expressed subjectively experienced and related to action and motivation this accessible but probing approach integrates philosophical analysis with innovative research in psychology and cognitive science contextualizing current debates in the history of ideas from darwin to pragmatism each section is introduced by a detailed illustration of a foundational thinker s work on emotion charles darwin william james and john dewey respectively showing how their insights and discoveries have shaped current views and suggesting ways in which they might still enrich contemporary approaches

a sweeping exploration of the ways in which emotions shaped the course of human history and how our experience and understanding of emotions have evolved along with us eye opening and thought provoking gina rippon author of the gendered brain we humans like to think

of ourselves as rational creatures who as a species have relied on calculation and intellect to survive but many of the most important moments in our history had little to do with cold hard facts and a lot to do with feelings events ranging from the origins of philosophy to the birth of the world's major religions the fall of rome the scientific revolution and some of the bloodiest wars that humanity has ever experienced can't be properly understood without understanding emotions drawing on psychology neuroscience philosophy art and religious history richard firth godbehere takes readers on a fascinating and wide ranging tour of the central and often under appreciated role emotions have played in human societies around the world and throughout history from ancient greece to gambia japan the ottoman empire the united states and beyond a human history of emotion vividly illustrates how our understanding and experience of emotions has changed over time and how our beliefs about feelings and our feelings themselves profoundly shaped us and the world we inhabit

emotion measurement second edition highlights key elements of emotions that should be considered in the measurement of emotions in both academic and commercial environments this edition begins with an updated review of basic studies of emotion including the theory physiology and psychology of emotions as these are the foundational studies which food scientists as well as product developers and marketing professionals need to be aware of the second section highlights methods for studying emotions and reviews the different approaches to emotion measurement questionnaire self report behavioral and physiological this section explores the merits of intrinsic versus extrinsic measures of emotion some new measurement approaches have emerged since the first edition of this book the book then presents practical applications with chapters on emotion research in food and beverage as well as in a range of products and clinical settings the experience in testing product emotions has increased since the first edition when product emotion research was newer finally emotion measurement second edition provides coverage of cross cultural research on emotions this is critical because much of the newer commercial research is aimed at markets around the world requiring methods that work in many cultures and the universality of emotions

has been a topic of research for decades taking both an academic and applied approach emotion measurement second edition will be an invaluable reference for those conducting basic academic research on emotions and for sensory and consumer scientists and the product developers and marketing professionals they work alongside reviews both the academic and the applied strands of emotion measurement research focuses on cross cultural studies of emotions which is currently lacking from most of the literature in the field highlights methods for studying emotions in both basic and applied studies

in everyday conceptions of emotion prominent anthropologists linguists and psychologists come together for the first time to discuss how emotions are conceptualised by people of different cultures and ages speaking different languages anger fear jealousy and emotion itself are concepts that are bound up with the english language embedded in a way of thinking acting and speaking at the same time the metaphors underlying such concepts are often similar across languages and children of different cultures follow common developmental pathways the book thus discusses the interplay of social and cultural factors that humans share in their development of an understanding of the affective side of their lives for researchers interested in emotion development of concepts and language cultural and linguistic influences on psychological processes

the history of emotions is one of the fastest growing fields in current historical debate and this is the first book length introduction to the field synthesizing the current research and offering direction for future study the history of emotions is organized around the debate between social constructivist and universalist theories of emotion that has shaped most emotions research in a variety of disciplines for more than a hundred years social constructivists believe that emotions are largely learned and subject to historical change while universalists insist on the timelessness and pan culturalism of emotions in historicizing and problematizing this binary jan plamper opens

emotions research beyond constructivism and universalism he also maps a vast terrain of thought about feelings in anthropology philosophy sociology linguistics art history political science the life sciences from nineteenth century experimental psychology to the latest affective neuroscience and history from ancient times to the present day

this book a member of the series in affective science is a unique interdisciplinary sequence of articles on the cognitive neuroscience of emotion by some of the most well known researchers in the area it explores what is known about cognitive processes in emotion at the same time it reviews the processes and anatomical structures involved in emotion determining whether there is something about emotion and its neural substrates that requires they be studied as a separate domain divided into four major focal points and presenting research that has been performed in the last decade this book covers the process of emotion generation the functions of amygdala the conscious experience of emotion and emotion regulation and dysregulation collectively the chapters constitute a broad but selective survey of current knowledge about emotion and the brain and they all address the close association between cognitive and emotional processes by bringing together diverse strands of investigation with the aim of documenting current understanding of how emotion is instantiated in the brain this book will be of use to scientists researchers and advanced students of psychology and neuroscience

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