



Attentional biases toward emotional images in the different episodes of bipolar disorder: An eye-tracking study

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ARTICLE INFO

Article history:

Received 21 April 2013

Received in revised form

24 December 2013

Accepted 26 December 2013

Available online 3 January 2014

Keywords:

Bipolar disorder

Cognitive biases

Selective attention

Eye tracking

ABSTRACT

Attentional biases toward emotional information may represent vulnerability and maintenance factors in bipolar disorder (BD). The present experimental study examined the processing of emotional information in BD patients using the eye-tracking technology. Bipolar patients in their different states (euthymia, mania, depression) simultaneously viewed four pictures with different emotional valence (happy, neutral, sad, threatening) for 20 s while their eye movements were monitored. A group of healthy individuals served as the control. The data revealed the following: (i) a decrease in attention to happy images in BD patients in their depressive episode compared to healthy individuals, and (ii) an increase in attention to threatening images in BD patients (regardless of their episode) relative to the healthy controls. These biases appeared in the late stages of information processing and were sustained over the 20 s interval. Thus, the present findings reveal that attentional biases toward emotional information can be a key feature of BD, in that: (i) an anhedonic lack of sensitivity to positive stimuli during the bipolar depressive episode may be considered a maintaining factor of this clinical state, and (ii) the trait-bias toward threat, even in asymptomatic patients, may reflect a marker of vulnerability in BD.

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1. Introduction

Individuals with bipolar disorder (BD) present with succeeding episodes of mania, depression, and euthymia (i.e., no symptoms), which involve important fluctuations in mood, cognitive functioning, and social behavior (see Muesel et al., 2000, for a review). Understanding the underlying affective/cognitive mechanisms involved in these episodes may prove to be helpful in the diagnosis and treatment of BD. A very useful strategy to study these mechanisms in detail is to assess variations in selective attention toward emotional stimuli during the different episodes of BD (e.g., see García-Blanco et al., 2013, for recent evidence with emotional words).

At the theoretical level, cognitive models of BD (e.g., Beck, 1976) postulate the existence of positive schemata in mania and negative schemata in depression that relate to unrealistic attitudes about oneself, the world, and the future. In this framework, how information is attended to, interpreted, and remembered by BD individuals depends on their congruency with the mood state (depressed patients prefer negative information, while manic patients prefer positive information). These cognitive biases may constitute a factor of emotional vulnerability related to the disorder in terms of whether they

exhibit some degree of stability independent of the symptomatology (i.e., the biases remain even during euthymic states; see Alloy et al., 2006, for review). Furthermore, the persistence of mood-congruent attentional biases along acute episodes (mania and depression) could hinder emotional self-regulation and contribute to the maintenance of affective symptomatology.

At the empirical level, only a few studies have examined these biases in individuals with BD (e.g., Chen et al., 2006; Jorgens et al., 2007; Wessa et al., 2007; García-Blanco et al., 2013). Wessa et al. (2007) employed an Affective Go/No-go Task with an event-related fMRI paradigm in euthymic BD patients and healthy individuals during the processing of threatening, happy, and neutral faces. Participants were required to detect relevant targets (e.g., “happy” faces) and inhibit their responses to competing stimuli, which were presented for relatively long exposure durations (permitting awareness of the stimuli). Although the researchers failed to find differences between asymptomatic BD patients and healthy individuals in the behavioral responses, the fMRI data revealed abnormal activation during the processing of happy and threatening faces in the patients. García-Blanco et al. (2013) compared BD patients in their manic, depressive, and euthymic states during the processing of “happy” and “sad” words in an Affective Go/No-go Task. They found that patients detected “happy” words more rapidly in their manic episodes, whereas in their depressive episodes, they more quickly detected “sad” words. Note that the euthymic patients and healthy individuals produced similar response times with “happy” and “sad” words.

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Attentional Biases Toward Emotional Images In The

Craig Speelman



Attentional Biases Toward Emotional Images In The:

Handbook of Emotion Elicitation and Assessment James A. Coan, John J.B. Allen, 2007-04-19 Emotion research has become a mature branch of psychology with its own standardized measures induction procedures data analysis challenges and sub disciplines During the last decade a number of books addressing major questions in the study of emotion have been published in response to a rapidly increasing demand that has been fueled by an increasing number of psychologists whose research either focus on or involve the study of emotion Very few of these books however have presented an explicit discussion of the tools for conducting research despite the facts that the study of emotion frequently requires highly specialized procedures instruments and coding strategies and that the field has reached a place where a large number of excellent elicitation procedures and assessment instruments have been developed and validated Emotion Elicitation and Assessment corrects this oversight in the literature by organizing and detailing all the major approaches and instruments for the study of emotion It is the most complete reference for methods and resources in the field and will serve as a pragmatic resource for emotion researchers by providing easy access to a host of scales stimuli coding systems assessment tools and innovative methodologies This handbook will help to advance research in emotion by encouraging researchers to take greater advantage of standard and well researched approaches which will increase both the productivity in the field and the speed and accuracy with which research can be communicated

The Oxford Handbook of Positive Emotion and Psychopathology June Gruber, 2019-09-05 Considerable research has been devoted to understanding how positive emotional processes influence our thoughts and behaviors and the resulting body of work clearly indicates that positive emotion is a vital ingredient in our human quest towards well being and thriving Yet the role of positive emotion in psychopathology has been underemphasized such that comparatively less scientific attention has been devoted to understanding ways in which positive emotions might influence and be influenced by psychological disturbance Presenting cutting edge scientific work from an internationally renowned group of contributors The Oxford Handbook of Positive Emotion and Psychopathology provides unparalleled insight into the role of positive emotions in mental health and illness The book begins with a comprehensive overview of key psychological processes that link positive emotional experience and psychopathological outcomes The following section focuses on specific psychological disorders including depression anxiety trauma bipolar disorder and schizophrenia as well as developmental considerations The third and final section of the Handbook discusses translational implications of this research and how examining populations characterized by positive emotion disturbance enables a better understanding of psychiatric course and risk factors while simultaneously generating opportunities to bridge gaps between basic science models and psychosocial interventions With its rich and multi layered focus The Oxford Handbook of Positive Emotion and Psychopathology will be of interest to researchers teachers and students from a range of disciplines including social psychology clinical psychology and psychiatry biological psychology and health psychology

affective science and neuroscience The ^AOxford Handbook of Stress and Mental Health Kate L. Harkness, Elizabeth P. Hayden, 2019-12-17 Due to the ubiquity of stress in mental health problems students clinicians and scientists in relevant fields require a broad understanding of stress assessment the factors that influence how impactful a given stressor is on an individual how the role of stress varies across different disorders and treatments for stress related problems This handbook provides an in depth comprehensive overview of these key issues in the field of stress and mental health through chapters written by a diverse group of internationally acclaimed experts who are concerned with understanding how stress impacts mental health Current Research and Emerging Directions in Emotion-Cognition Interactions Florin Dolcos, Lihong Wang, Mara Mather, 2015-03-02 Emotion can impact various aspects of our cognition and behavior by enhancing or impairing them e g enhanced attention to and memory for emotional events or increased distraction produced by goal irrelevant emotional information On the other hand emotion processing is also susceptible to cognitive influences typically exerted in the form of cognitive control of motion or emotion regulation Despite important recent progress in understanding emotion cognition interactions a number of aspects remain unclear The present book comprises a collection of manuscripts discussing emerging evidence regarding the mechanisms underlying emotion cognition interactions in healthy functioning and alterations associated with clinical conditions in which such interactions are dysfunctional Initiated with a more restricted focus targeting 1 identification and in depth analysis of the circumstances in which emotion enhances or impairs cognition and 2 identification of the role of individual differences in these effects our book has emerged into a comprehensive collection of outstanding contributions investigating emotion cognition interactions based on approaches spanning from behavioral and lesion to pharmacological and brain imaging and including empirical theoretical and review papers alike Co hosted by the Frontiers in Neuroscience Integrative Neuroscience and Frontiers in Psychology Emotion Science the contributions comprising our book and the associated research topic are grouped around the following seven main themes distributed across the two hosting journals I Emotion and Selectivity in Attention and Memory II The Impact of Emotional Distraction Linking Enhancing and Impairing Effects of Emotion III What Really is the Role of the Amygdala IV Age Differences in Emotion Processing The Role of Emotional Valence V Affective Face Processing Social Cognition and Personality Neuroscience VI Stress Mood Emotion and the Prefrontal Cortex The Role of Control in the Stress Response VII Emotion Cognition Interactions in Clinical Conditions As illustrated by the present collection of contributions emotion cognition interactions can be identified at different levels of processing from perception and attention to long term memory decision making processes and social cognition and behavior Notably these effects are subject to individual differences that may affect the way we perceive experience and remember emotional experiences or cope with emotionally challenging situations Moreover these opposing effects tend to co occur in affective disorders such as depression and PTSD where uncontrolled recollection of and rumination on distressing memories also lead to impaired cognition due to emotional

distraction Understanding the nature and neural mechanisms of these effects is critical as their exacerbation and co occurrence in clinical conditions lead to devastating effects and debilitation Hence bringing together such diverse contributions has allowed not only an integrative understanding of the current extant evidence but also identification of emerging directions and concrete venues for future investigations Rehabilitation for Persistent Pain Across the Lifespan

Jo Nijs,Kelly Ickmans,2021-01-15 The area of rehabilitation research for patients having persistent pain is on the move The rapid growth in pain science has inspired rehabilitation clinicians and researchers around the globe This has led to breakthrough research and implementation of modern pain science in rehabilitation settings around the world Still our understanding of persistent pain continues to grow not in the least because of fascinating discoveries from areas such as psychoneuroimmunology exercise physiology clinical psychology and nutritional neuro biology This offers unique opportunities to further improve rehabilitation for patients with chronic pain across the lifespan Also the diversity of health care disciplines involved in the rehabilitation of chronic pain e g physicians psychologists physiotherapists occupational therapists nurses coaches provides a framework for upgrading rehabilitation for chronic pain towards comprehensive lifestyle approaches **Handbook of Cognition and Emotion** Michael D. Robinson,Edward R. Watkins,Eddie Harmon-Jones,2013-03-29 Comprehensively examining the relationship between cognition and emotion this authoritative handbook brings together leading investigators from multiple psychological subdisciplines Biological underpinnings of the cognition emotion interface are reviewed including the role of neurotransmitters and hormones Contributors explore how key cognitive processes such as attention learning and memory shape emotional phenomena and vice versa Individual differences in areas where cognition and emotion interact such as agreeableness and emotional intelligence are addressed The volume also analyzes the roles of cognition and emotion in anxiety depression borderline personality disorder and other psychological disorders **Handbook of Research on Educational Leadership and Research Methodology** Wang, Viktor,2022-06-24 Education inevitably influences society and our future As literature and experience tells educational leaders impact not only their institutions but ultimately the learning outcomes for a large portion of society s members Educational leaders are charged with more than creating a viable future for an institution they are also charged with contributing to and creating a viable positive human future not an easy task amid the turbulence and disruption of our times The Handbook of Research on Educational Leadership and Research Methodology discusses the evolution of educational leadership knowledge thoughts and practices by sharing the perspectives experiences theories and philosophies related to educational leadership and research methodologies across all levels of education Covering topics such as critical race design toxic leadership and adult learning this major reference work is a critical resource for faculty and administrators of both K 12 and higher education principals superintendents chancellors directors pre service teachers teaching instructors government officials librarians researchers and academicians *Enhancing Human Performance* Craig Spielman,2014-03-17 The

chapters in this book have their origins in papers presented at one of two conferences organised by the Global Science and Technology Forum GSTF the Annual International Conference on Human Resource Management and Professional Development HRM and PD 2012 and the Annual Conference on Cognitive and Behavioural Psychology CBP 2013 both held in Singapore On the basis of these presentations authors were invited to re work their papers to fit within the theme of enhancing human performance This theme was deliberately broad so as to include a wide range of research areas and yet was sufficiently specific that the chapters would cohere as different perspectives on the factors that affect human performance This collection of chapters reflects the disparate contexts in which human performance is examined and the many factors that impinge on performance in a negative way and the conditions under which performance can be improved The book explores topics such as the effects of a computer maths game on the acquisition of arithmetic skills in school children the effects of exercise on cognition in children with autism spectrum disorder the influence of bilingualism on visuospatial memory the potential beneficial effects of beliefs in the extraordinary e g paranormal phenomena an examination of how attention to food related images is affected as a function of food deprivation the factors that affect the perceived effort of credit repayment the impact of the emotional valence of faces on the spatial direction of attention emotional eating in Thailand the relationship between work roles worker characteristics and work performance the relationship between national culture and national innovation and organisational preparation for Generation Y leaders

Nonhuman Primate Welfare Lauren M. Robinson, Alexander Weiss, 2023-02-01 This volume reviews the broad topic of welfare in nonhuman primates under human care Chapters detail the history of primates in captivity ethical and legal issues surrounding the use of nonhuman primates as entertainment or in research the different approaches that welfare are measured and how housing enrichment and other conditions can foster or degrade welfare Since humans began keeping nonhuman primates we have made vast strides in understanding their cognitive abilities strong social bonds vibrant personalities and their capacity for joy and suffering With an increasing number of countries banning the use of great apes in biomedical research the welfare of primates in zoos and research facilities has gained increasing attention This interdisciplinary work features contributors from many of the fields involved and those on both sides of the issue thus providing an exhaustive overview of primate welfare Readers from animal welfare science primatology animal testing veterinary medicine conservation to ethics and legislation will find this an important account

Experimental Approaches to Body Image, Representation and Perception Kevin R. Brooks, Lynda Boothroyd, Jason Bell, Ian D. Stephen, 2021-12-13

The Oxford Handbook of Emotional Development Daniel Dukes, Andrea C. Samson, Eric A. Walle, 2022 Explores a range of disciplines including psychology neuroscience sociology primatology philosophy history cognitive science computer science and education

Attention, predictions and expectations, and their violation: attentional control in the human brain Simone Vossel, Joy J. Geng, Karl J. Friston, 2015-05-20 In the burdened scenes of everyday life our brains must select from among many competing inputs for perceptual synthesis

so that only the most relevant receive full attention and irrelevant distracting information is suppressed. At the same time we must remain responsive to salient events outside our current focus of attention and balancing these two processing modes is a fundamental task our brain constantly needs to solve. Both the physical saliency of a stimulus as well as top down predictions about imminent sensations crucially influence attentional selection and consequently the response to unexpected events. Research over recent decades has identified two separate brain networks involved in predictive top down control and reorientation to unattended events or oddball stimuli: the dorsal and ventral fronto-parietal attention systems of the human brain. Moreover, specific electrophysiological brain responses are known to characterize attentional orienting as well as the processing of deviant stimuli. However, many key questions are outstanding. What are the exact functional differences between these cortical attention systems? How are they lateralised in the two hemispheres? How do top down and bottom up signals interact to enable flexible attentional control? How does structural damage to one system affect the functionality of the other in brain damaged patients? Are there sensory specific and supra-modal attentional systems in the brain? In addition to these questions, it is now accepted that brain responses are not only affected by the saliency of external stimuli but also by our expectations about sensory inputs. How these two influences are balanced and how predictions are formed in cortical networks or generated on the basis of experience-dependent learning are intriguing issues. In this Research Topic we aim to collect innovative contributions that shed further light on the cortical mechanisms of attentional control in the human brain. In particular, we would like to encourage submissions that investigate the behavioural correlates, functional anatomy or electrophysiological markers of attentional selection and reorientation. Special emphasis will be given to studies investigating the context sensitivity of these attentional processes in relation to prior expectations, trial history, contextual cues or physical saliency. We would like to encourage submissions employing different research methods: psychophysical recordings, neuroimaging techniques such as fMRI, MEG, EEG or ECoG as well as neurostimulation methods such as TMS or tDCS in healthy volunteers or neurological patients. Computational models and animal studies are also welcome. Finally, we also welcome submission of meta-analyses and reviews/articles that provide new insights into or conclusions about recent work in the field.

Persuasive Communication Richard O. Young, 2016-07-15 This updated and expanded edition of *Persuasive Communication* offers a comprehensive introduction to persuasion and real world decision making. Drawing on empirical research from social psychology, neuroscience, business communication research, cognitive science and behavioral economics, Young reveals the thought processes of many different audiences from investors to CEOs to help students better understand why audiences make the decisions they make and how to influence them. The book covers a broad range of communication techniques richly illustrated with compelling examples including resumes, speeches and slide presentations to help students recognize persuasive methods that do and do not work. A detailed analysis of the emotions and biases that go into decision making arms students with perceptive insights into human behavior and helps them apply this understanding with various

decision making aids Students will learn how to impact potential employers clients and other audiences essential to their success This book will prove fascinating to many and especially useful for students of persuasion rhetoric and business communication

Interdisciplinary Perspectives on the Relation between Sleep and Learning in Early Development ,2021-02-26 Interdisciplinary Perspectives on the Relation between Sleep and Learning in Early Development Volume 60 the latest release in this ongoing series focuses on the relationship between sleep and learning for research and practice Specific chapters cover Sleep Learning Memory and Executive Functioning in Infancy and Early Childhood Newly walking infants night sleep impacts next day learning and problem solving The effect of napping and night time sleep on memory in infants The contribution of good sleep to working memory in 2 to 4 year olds A matter of duration or regulation Sleep development in preschool predicts executive functioning in early elementary school and more Covers the relationship between sleep and learning in infancy and early childhood Provides an interdisciplinary exchange of approaches and perspectives among scholars of sleep and learning Presents the implications of the relationship between sleep and learning for research and practice

The Psychology of Implicit Emotion Regulation Sander L Koole,Klaus Rothermund,2012-12-06 Emotion regulation has traditionally been conceived as a deliberative process but there is growing evidence that many emotion regulation processes operate at implicit levels Implicit emotion regulation is initiated automatically without conscious intention and aims at modifying the quality of emotional responding This special issue showcases recent advances in theorizing and empirical research on implicit emotion regulation Implicit emotion regulation is pervasive in everyday life and contributes considerably to the effectiveness of emotion regulation The contributions to this special issue highlight the significance of implicit emotion regulation in psychological adaptation goal directed behavior interpersonal behavior personality functioning and mental health

Insights in: Environmental psychology 2021 Giuseppe Carrus,Massimiliano Scopelliti,Ferdinando Fornara,Juan I. Aragonés,2023-10-06

Neuroscience for Addiction Medicine: From Prevention to Rehabilitation - Methods and Interventions ,2016-01-30 Neuroscience for Addiction Medicine From Prevention to Rehabilitation Methods and Interventions is the latest volume from Progress in Brain Research focusing on new trends and developments in addiction research This established international series examines major areas of basic and clinical research within neuroscience as well as popular emerging subfields such as addiction This volume takes an integrated approach to review and summarize some of the most recent progress from the subfield of addiction research with particular emphasis on potential applications in a clinical setting Explores new trends and developments in basic and clinical research in the addiction subfield of neuroscience Uses an integrated approach to review and summarize recent progress Emphasizes potential applications in a clinical setting Enhances the literature of neuroscience by further expanding the established international series Progress in Brain Research

Insights in Child and Adolescent Psychiatry: 2021 David Cohen,2022-09-22

Time Perception and Dysfunction: Clinical and Practical Implications Deana Davalos,Giovanna

Mioni, Simon Grondin, Felipe Ortuño, 2019-02-19 Processing time requires a complex set of abilities that dictates how one adapts to the environment Timing is key in how we communicate organize our space and understand the world When timing is intact it often exists below one's conscious awareness but when one's ability to process time is disrupted the effects are noticeable and widespread To better understand the construct of temporal dysfunction one has to examine the concept of timing from multiple angles An integrative approach is required to understand the possible biological cognitive and psychological etiologies of temporal dysfunction In addition expertise in language measurement and psychopathology are necessary to comprehend how timing affects one's representation of the world This Research Topic is dedicated to examining timing and temporal dysfunction across a variety of tasks and disorders Specifically we seek to understand the most basic types of timing dysfunction and how they may affect a wide range of behaviors and symptoms as well as higher levels of temporal deficits involved in how one perceives the time spent This Research Topic represents the intersection of medicine psychology cognition and perception in a unified attempt to shed light on temporal processing The collection of original research articles and case studies highlighting novel methodologies and interventions illustrates the complexity of timing dysfunction and how understanding these deficits helps us to get a fresh look at a wide range of clinical psychopathologies and to develop better interventions

Handbook of Emotions Lisa Feldman Barrett, Michael Lewis, Jeannette M.

Haviland-Jones, 2016-07-12 Recognized as the definitive reference this handbook brings together leading experts from multiple psychological subdisciplines to examine one of today's most dynamic areas of research Coverage encompasses the biological and neuroscientific underpinnings of emotions as well as developmental social and personality cognitive and clinical perspectives The volume probes how people understand experience express and perceive affective phenomena and explores connections to behavior and health across the lifespan Concluding chapters present cutting edge work on a range of specific emotions Illustrations include 10 color plates New to This Edition Chapters on the mechanisms processes and influences that contribute to emotions such as genetics the brain neuroendocrine processes language the senses of taste and smell Chapters on emotion in adolescence and older age and in neurodegenerative dementias Chapters on facial expressions and emotional body language Chapters on stress health gratitude love and empathy Many new authors and topics extensively revised with the latest theoretical and methodological innovations A Choice Outstanding Academic Title

The Top Books of the Year Attentional Biases Toward Emotional Images In The The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Attentional Biases Toward Emotional Images In The : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Attentional Biases Toward Emotional Images In The : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Attentional Biases Toward Emotional Images In The Introduction

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