

OCULAR VISUAL

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Anatomy of Visual Attention

Ocular refers to anything related to the eye or vision. It can be used as an adjective to describe something that is related to the eye, such as ocular muscles or ocular anatomy. It can also be used as a noun to refer to medical devices, such as ocular implants or ocular prosthetics.

One of the most common uses of the term ocular is in reference to the ocular lens, which is the lens located inside the eye that helps to focus light onto the retina. This lens is crucial for clear vision and any damage or deterioration of this lens can result in various vision problems.

Ocular diseases and conditions are numerous and varied, ranging from common conditions such as nearsightedness and farsightedness to more serious conditions such as cataracts, glaucoma, and macular degeneration. Treatment options for these conditions can range from corrective lenses and medications to surgery and other advanced procedures.

In summary, ocular refers to anything related to the eye or vision, including anatomy, medical devices, diseases, and conditions.

Human eyes perceiving is a complex process that involves various anatomical structures and correlations. It begins with the cornea, which is a transparent layer that covers the front of the eye.

The cornea helps to focus light onto the lens, which is located behind it. The lens then changes shape to further focus the light onto the retina, which is a thin layer of tissue at the back of the eye.

The retina contains photoreceptor cells called rods and cones, which are responsible for detecting light and transmitting visual information to the brain via the optic nerve. Rods are more sensitive to low levels of light and are responsible for night vision, while cones are responsible for color vision and visual acuity.

When light hits the photoreceptor cells, it triggers a series of chemical reactions that generate electrical signals. These signals are then transmitted to bipolar cells, which in turn transmit them to ganglion cells. The axons of the ganglion cells converge at the optic disc, where they form the optic nerve.

The optic nerve carries these electrical signals to the brain, specifically to an area called the visual cortex. Here, the signals are processed and interpreted as visual information, allowing us to see and perceive our surroundings.

In addition to these anatomical structures and correlations, there are also various factors that can affect how we perceive visual information. These include factors such as lighting conditions, color contrast, and visual acuity.

Overall, human eyes perceiving is a complex process that involves multiple anatomical structures and correlations working together to generate visual information that is interpreted by the brain.

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Ocular Definition & MeaningThe meaning of
OCULAR is done or perceived by the eye. How to
use ocular in a

sentence.www.merriam-webster.com

Ocular - Definition, Meaning & SynonymsOcular
things have something to do with eyes or seeing. If
you have what your doctor describes as "ocular
pain," it means your eye

hurts.www.vocabulary.com**Ocular Definition &**
Meaningocular · of, relating to, or for the eyes:
ocular movements. · of the nature of an eye: an
ocular organ. · performed or perceived by the eye
or eyesight.www.dictionary.com

Chapter 14: Visual Processing: Eye and Retina

In this chapter you will learn about how the visual system initiates the processing of external stimuli. The chapter will familiarize you with measures of ...nba.uth.tmc.edu

How the Eyes Work

All the different parts of your eyes work together to help you see. First, light passes through the cornea (the clear front layer of the ...www.nei.nih.gov

The Visual System - Introduction to Psychology

Describe the basic anatomy of the visual system; Discuss how rods and cones contribute to different aspects of vision; Describe how monocular and binocular ...openeducationalberta.ca

**A VISUAL
SHORT-TERM
memory
ADVANTAGE FOR
OBJECTS OF
EXPERTISE**

**KIM M. CURBY,
KUBA GLAZEK,
AND ISABEL
GAUTHIER**

**[HTTPS://WWW.N
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**ABSTRACT
VISUAL
SHORT-TERM
memory (VSTM)
IS LIMITED,
ESPECIALLY FOR
COMPLEX
OBJECTS. ITS**

			CAPACITY, HOWEVER, IS GREATER FOR FACES THAN FOR OTHER OBJECTS, AN ADVANTAGE THAT MAY STEM FROM THE HOLISTIC NATURE OF FACE PROCESSING.
CATEGORIZATION TRAINING RESULTS IN SHAPE- AND CATEGORY-SELECTIVE HUMAN NEURAL PLASTICITY	XIONG JIANG, EVAN BRADLEY, [...], AND MAXIMILIAN RIESENHUBER	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC1989663/?REPORT-READER	OBJECT CATEGORY LEARNING IS A FUNDAMENTAL ABILITY, REQUIRING COMBINATION OF “BOTTOM-UP” STIMULUS-DRIVEN WITH “TOP-DOWN” TASK-SPECIFIC INFORMATION. IT THEREFORE MAY BE A FRUITFUL DOMAIN FOR STUDY OF THE GENERAL NEURAL MECHANISMS UNDERLYING CORTICAL PLASTICITY.
CORTICAL MECHANISMS OF COGNITIVE	BENJAMIN J. TAMBER-ROSENTHAL, MICHAEL	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC1989663/?REPORT-READER	ABSTRACT ORGANISMS OPERATE WITHIN

CONTROL FOR SHIFTING ATTENTION IN VISION AND WORKING MEMORY	ESTERMAN, [...], AND STEVEN YANTIS	<u>MC3158824/?REP</u> <u>ORT-READER</u>	BOTH A PERCEPTUAL DOMAIN OF OBJECTS AND EVENTS, AND A MNEMONIC DOMAIN OF PAST EXPERIENCES AND FUTURE GOALS. EACH DOMAIN REQUIRES DELIBERATE SELECTION OF TASK-RELEVANT INFORMATION, THROUGH DEPLOYMENTS OF EXTERNAL (PERCEPTUAL) AND INTERNAL (MNEMONIC) ATTENTION, RESPECTIVELY. LITTLE IS KNOWN ABOUT THE CONTROL OF ATTENTION SHIFTS IN WORKING MEMORY, OR WHETHER VOLUNTARY CONTROL OF ATTENTION IN THESE TWO DOMAINS IS SUBSERVED BY A COMMON OR BY
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			DISTINCT FUNCTIONAL NETWORKS.
DECODING REVEALS THE CONTENTS OF VISUAL WORKING memory in EARLY VISUAL AREAS	STEPHENIE A. HARRISON AND FRANK TONG	HTTPS://WWW.N CBI.NLM.NIH.GOV/ PMC/ARTICLES/P MC2709809/?Re PORT-READER	ABSTRACT VISUAL WORKING memory PROVIDES AN ESSENTIAL LINK BETWEEN PERCEPTION AND HIGHER COGNITIVE FUNCTIONS, ALLOWING FOR THE ACTIVE MAINTENANCE OF INFORMATION REGARDING STIMULI NO LONGER IN VIEW^{1,2}. RESEARCH SUGGESTS THAT SUSTAINED ACTIVITY IN HIGHER-ORDER PREFRONTAL, PARIETAL, INFEROTEMPORA L AND LATERAL OCCIPITAL AREAS SUPPORTS VISUAL MAINTENANCE³⁻¹ 1, AND MAY ACCOUNT FOR WORKING

			memory's limited capacity to hold up to 3-4 items9-11.
Decoding the visual and subjective contents of the human brain	YUKIYASU KAMITANI AND FRANK TONG	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1808230/?report=reader	THE POTENTIAL FOR HUMAN neuroimaging TO READ-OUT THE DETAILED CONTENTS OF A PERSON'S MENTAL STATE HAS YET TO BE FULLY EXPLORED. We INVESTIGATED WHETHER THE PERCEPTION OF edge ORIENTATION, A FUNDAMENTAL VISUAL FEATURE, CAN BE DECODED FROM HUMAN BRAIN ACTIVITY MEASURED WITH FUNCTIONAL MAGNETIC Resonance IMAGING (FMRI).
Discrete Fixed-Resolution Representations in Visual Working	Weiwei Zhang AND Steven J. Luck	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2588137/?report=reader	ABSTRACT LIMITS ON THE STORAGE CAPACITY OF WORKING memory

Memory			SIGNIFICANTLY IMPACT COGNITIVE ABILITIES IN A WIDE RANGE OF DOMAINS¹, BUT THE NATURE OF THESE CAPACITY LIMITS HAS BEEN ELUSIVE².
DYNAMIC SHIFTS OF LIMITED WORKING MEMORY RESOURCES IN HUMAN VISION	PAUL M. BAYS AND MASUD HUSAIN	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC2532743/?REPORT=READER	ABSTRACT OUR ABILITY TO REMEMBER WHAT WE HAVE SEEN IS REMARKABLY LIMITED. MOST CURRENT VIEWS CHARACTERIZE THIS LIMIT AS A FIXED NUMBER OF ITEMS - ONLY 4 OBJECTS - THAT CAN BE HELD IN VISUAL WORKING MEMORY.
ENUMERATION VERSUS MULTIPLE OBJECT TRACKING: THE CASE OF ACTION VIDEO GAME PLAYERS	C.S. GREEN AND D. BAVELIER	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC2896820/?REPORT=READER	ABSTRACT HERE, WE DEMONSTRATE THAT ACTION VIDEO GAME PLAY ENHANCES SUBJECTS' ABILITY IN TWO TASKS THOUGHT TO INDICATE THE

			number of items that can be apprehended. using an enumeration task, in which participants have to determine the number of quickly flashed squares, accuracy measures showed a near ceiling performance for low numerosities and a sharp drop in performance once a critical number of squares was reached.
NEURAL REPRESENTATION OF TARGETS AND DISTRACTORS DURING OBJECT INDIVIDUATION AND IDENTIFICATION	SU KEUN JEONG AND YAODA XU	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC3736830/?REPORT-READER	ABSTRACT IN MANY EVERYDAY ACTIVITIES, WE NEED TO ATTEND AND ENCODE MULTIPLE TARGET OBJECTS AMONG DISTRACTOR OBJECTS. FOR

			EXAMPLE, WHEN DRIVING A CAR ON A BUSY STREET, WE NEED TO SIMULTANEOUSLY ATTEND OBJECTS SUCH AS TRAFFIC SIGNS, PEDESTRIANS, AND OTHER CARS, WHILE IGNORING COLORFUL AND FLASHING OBJECTS IN DISPLAY WINDOWS.
SELECTING AND PERCEIVING MULTIPLE VISUAL OBJECTS	YAODA XU AND MARVIN M. CHUN	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC3213861/?REPORT=READER	ABSTRACT TO EXPLAIN HOW MULTIPLE VISUAL OBJECTS ARE ATTENDED AND PERCEIVED, WE PROPOSE THAT OUR VISUAL SYSTEM FIRST SELECTS A FIXED NUMBER OF ABOUT FOUR OBJECTS FROM A CROWDED SCENE BASED ON THEIR SPATIAL INFORMATION (OBJECT INDIVIDUATION) AND THEN ENCODE THEIR DETAILS (OBJECT

			IDENTIFICATION).
THE ROLE OF THE SUPERIOR INTRAPARIETAL SULCUS IN SUPPORTING VISUAL SHORT-TERM MEMORY FOR MULTIFEATURE OBJECTS	YAODA XU	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC6673209/?REPORT=READER	ABSTRACT EVERYDAY OBJECTS CAN VARY IN A NUMBER OF FEATURE DIMENSIONS, SUCH AS COLOR AND SHAPE. TO IDENTIFY AND RECOGNIZE A PARTICULAR OBJECT, OFTEN TIMES WE NEED TO ENCODE AND STORE MULTIPLE FEATURES OF AN OBJECT SIMULTANEOUSLY.
TOPOGRAPHIC MAPS OF VISUAL SPATIAL ATTENTION IN HUMAN PARIETAL CORTEX	MICHAEL A. SILVER, DAVID RESS, AND DAVID J. HEEGER	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC2367310/?REPORT=READER	ABSTRACT FUNCTIONAL MAGNETIC RESONANCE IMAGING (FMRI) WAS USED TO MEASURE ACTIVITY IN HUMAN PARIETAL CORTEX DURING PERFORMANCE OF A VISUAL DETECTION TASK IN WHICH THE FOCUS OF ATTENTION SYSTEMATICALLY

			TRAVERSED THE VISUAL FIELD.
VISUAL GROUPING IN HUMAN PARIETAL CORTEX	YAODA XU AND MARVIN M. CHUN	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC2141851/?REPORT-READER	ABSTRACT TO EFFICIENTLY EXTRACT VISUAL INFORMATION FROM COMPLEX VISUAL SCENES TO GUIDE BEHAVIOR AND THOUGHT, VISUAL INPUT NEEDS TO BE ORGANIZED INTO DISCRETE UNITS THAT CAN BE SELECTIVELY ATTENDED AND PROCESSED. ONE IMPORTANT SUCH SELECTION UNIT IS VISUAL OBJECTS.
VISUAL TOPOGRAPHY OF HUMAN INTRAPARIETAL SULCUS	JASCHA D. SWISHER, MARK A. HALKO, [...], AND DAVID C. SOMERS	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC6672354/?REPORT-READER	ABSTRACT HUMAN PARIETAL CORTEX IS IMPLICATED IN A WIDE VARIETY OF SENSORY AND COGNITIVE FUNCTIONS, YET ITS PRECISE ORGANIZATION REMAINS UNCLEAR. VISUAL

			FIELD MAPS PROVIDE A POTENTIAL STRUCTURAL BASIS FOR DESCRIPTIONS OF FUNCTIONAL ORGANIZATION.
	Visual Attention		
ATTENTION ALTERS FEATURE SPACE IN MOTION PROCESSING	MARC ZIRNSAK AND FRED H. HAMKER	<u>HTTPS://WWW. NCBI.NLM.NIH.G OV/PMC/ARTIC LES/PMC66326 46/?REPORT=R EADER</u>	ABSTRACT ATTENDING TO A PARTICULAR FEATURE MODULATES THE ACTIVITY OF NEURONS THROUGHOUT THE VISUAL FIELD WITH THE RESULT THAT RELEVANT FEATURES ARE ENHANCED WHILE IRRELEVANT FEATURES ARE SUPPRESSED. DO THESE MODULATORY INFLUENCES MERELY LEAD TO A GATING OF RELEVANT FEATURES, OR DOES ATTENTION HAVE A DIRECT IMPACT ON THE REPRESENTATION OF FEATURE SPACE, LEADING TO A DIFFERENT PERCEPT DEPENDING ON THE CONTENT OF ATTENTION? WE OBSERVED THAT DIRECTION ESTIMATES OF

			THE STATIC MOTION AFTEREFFECT DRASTICALLY CHANGE WHEN HUMAN OBSERVERS ATTEND TO A STIMULUS WHOSE MOTION DIRECTION DIFFERS FROM THE ONE OF THE ADAPTOR. THIS OBSERVATION SUGGESTS THAT FEATURE-BASED ATTENTION MIGHT OPERATE BY LOCAL MAGNIFICATIONS OF FEATURE SPACE BETWEEN RELEVANT AND IRRELEVANT FEATURES.
ATTENTION IMPROVES OR IMPAIRS VISUAL PERFORMANCE BY ENHANCING SPATIAL RESOLUTION	YAFFA YESHURUN AND MARISA CARRASCO	HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC3825508/?REPORT=READER	ADDITIONAL ARTICLE INFORMATION ABSTRACT COVERT ATTENTION, THE SELECTIVE PROCESSING OF VISUAL INFORMATION AT A GIVEN LOCATION IN THE ABSENCE OF EYE MOVEMENTS, IMPROVES PERFORMANCE IN SEVERAL TASKS, SUCH AS VISUAL SEARCH AND DETECTION OF LUMINANCE AND VERNIER TARGETS¹⁻⁶. AN IMPORTANT UNSETTLED ISSUE IS WHETHER THIS IMPROVEMENT IS DUE TO A REDUCTION IN NOISE (INTERNAL OR EXTERNAL)⁶⁻⁹, A CHANGE

			IN DECISIONAL CRITERIA^{10,11}, OR SIGNAL ENHANCEMENT^{3,5,12}. HERE WE SHOW THAT ATTENTION CAN AFFECT PERFORMANCE BY SIGNAL ENHANCEMENT. FOR A TEXTURE SEGREGATION TASK IN WHICH PERFORMANCE IS ACTUALLY DIMINISHED WHEN SPATIAL RESOLUTION IS TOO HIGH, WE OBSERVED THAT ATTENTION IMPROVED PERFORMANCE AT PERIPHERAL LOCATIONS WHERE SPATIAL RESOLUTION WAS TOO LOW, BUT IMPAIRED PERFORMANCE AT CENTRAL LOCATIONS WHERE SPATIAL RESOLUTION WAS TOO HIGH⁴⁻¹². THE COUNTERINTUITIVE IMPAIRMENT OF PERFORMANCE THAT WE FOUND AT THE CENTRAL RETINAL LOCATIONS APPEARS TO HAVE ONLY ONE POSSIBLE EXPLANATION: ATTENTION ENHANCES SPATIAL RESOLUTION.
ECCENTRICITY EFFECTS IN VISION AND ATTENTION		HTTPS://WWW.NCBI.NLM.NIH.GOV/PMC/ARTICLES/PMC5127899/	ADDITIONAL ARTICLE INFORMATION ABSTRACT

**CAMILLA
FUNCH
STAUGAARD,
ANDERS
PETERSEN,
AND SIGNE
VANGKILDE**

**STIMULUS ECCENTRICITY
AFFECTS VISUAL
PROCESSING IN MULTIPLE
WAYS. PERFORMANCE ON A
VISUAL TASK IS OFTEN
BETTER WHEN TARGET
STIMULI ARE PRESENTED
NEAR OR AT THE FOVEA
COMPARED TO THE RETINAL
PERIPHERY. FOR INSTANCE,
REACTION TIMES AND
ERROR RATES ARE OFTEN
REPORTED TO INCREASE
WITH INCREASING
ECCENTRICITY. SUCH
FINDINGS HAVE BEEN
INTERPRETED AS PURELY
VISUAL, REFLECTING
NEUROPHYSIOLOGICAL
DIFFERENCES IN CENTRAL
AND PERIPHERAL VISION,
AS WELL AS ATTENTIONAL,
REFLECTING A CENTRAL
BIAS IN THE ALLOCATION OF
ATTENTIONAL RESOURCES.
OTHER FINDINGS INDICATE
THAT IN SOME CASES,
INFORMATION FROM THE
PERIPHERY IS
PREFERENTIALLY
PROCESSED. SPECIFICALLY,
IT HAS BEEN SUGGESTED
THAT VISUAL PROCESSING
SPEED INCREASES WITH
INCREASING STIMULUS
ECCENTRICITY, AND THAT
THIS POSITIVE
CORRELATION IS REDUCED,**

BUT NOT ELIMINATED, WHEN THE AMOUNT OF CORTX ACTIVATED BY A STIMULUS IS KEPT CONSTANT BY MAGNIFYING PERIPHERAL STIMULI (CARRASCO ET AL., 2003). IN THIS STUDY, WE INVESTIGATED EFFECTS OF ECCENTRICITY ON VISUAL ATTENTIONAL CAPACITY WITH AND WITHOUT MAGNIFICATION, USING COMPUTATIONAL MODELING BASED ON BUNDESEN'S (1990) THEORY OF VISUAL ATTENTION. OUR RESULTS SUGGEST A GENERAL DECREASE IN ATTENTIONAL CAPACITY WITH INCREASING STIMULUS ECCENTRICITY, IRRESPECTIVE OF MAGNIFICATION. WE DISCUSS THESE RESULTS IN RELATION TO THE PHYSIOLOGY OF THE VISUAL SYSTEM, THE USE OF DIFFERENT PARADIGMS FOR INVESTIGATING VISUAL PERCEPTION ACROSS THE VISUAL FIELD, AND THE USE OF DIFFERENT STIMULUS MATERIALS (E.G. GABOR PATCHES VS. LETTERS).

KEYWORDS: SPATIAL

			ATTENTION, ECCENTRICITY, CORTICAL MAGNIFICATION, VISUAL PROCESSING SPEED, PERIPHERAL VISION
on the Flexibility of Sustained Attention and its effects on a Texture Segmentation Task	YAFFA YESHURUN , BARBARA MONTAGN A, AND MARISA CARRASCO	HTTPS://WWW. NCBI.NLM.NIH.G OV/PMC/ARTIC LES/PMC26381 23/?REPORT=R eader	ABSTRACT PREVIOUSLY WE HAVE SHOWN THAT TRANSIENT ATTENTION—THE MORE AUTOMATIC, STIMULUS-DRIVEN COMPONENT OF SPATIAL ATTENTION—ENHANCES SPATIAL RESOLUTION. SPECIFICALLY, TRANSIENT ATTENTION IMPROVES TEXTURE SEGMENTATION AT THE PERIPHERY, WHERE SPATIAL RESOLUTION IS TOO LOW, BUT IMPAIRS PERFORMANCE AT CENTRAL LOCATIONS, WHERE SPATIAL RESOLUTION IS ALREADY TOO HIGH FOR THE TASK. IN THE PRESENT STUDY WE INVESTIGATED WHETHER SUSTAINED ATTENTION—THE MORE CONTROLLED COMPONENT OF SPATIAL ATTENTION—CAN ALSO AFFECT TEXTURE SEGMENTATION, AND IF SO WHETHER ITS EFFECT WILL BE SIMILAR TO THAT OF TRANSIENT ATTENTION. TO THAT END WE COMBINED CENTRAL, SYMBOLIC CUES

WITH TEXTURE DISPLAYS IN WHICH THE TARGET APPEARS AT SEVERAL ECCENTRICITIES. WE FOUND THAT SUSTAINED ATTENTION CAN ALSO AFFECT TEXTURE SEGMENTATION, BUT UNLIKE TRANSIENT ATTENTION, SUSTAINED ATTENTION IMPROVED PERFORMANCE AT ALL ECCENTRICITIES. COMPARING THE EFFECT OF PRE-CUES AND POST-CUES INDICATED THAT THE BENEFIT BROUGHT ABOUT BY SUSTAINED ATTENTION IS SIGNIFICANTLY GREATER THAN THE EFFECT OF LOCATION UNCERTAINTY REDUCTION. THESE FINDINGS INDICATE THAT SUSTAINED ATTENTION IS A MORE FLEXIBLE MECHANISM THAT CAN OPTIMIZE PERFORMANCE AT ALL ECCENTRICITIES IN A TASK WHERE PERFORMANCE IS CONSTRAINED BY SPATIAL RESOLUTION.

KEYWORDS: COVERT ATTENTION, SUSTAINED ATTENTION, TEXTURE SEGMENTATION, SPATIAL VISION

		https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3390154/?report=reader	
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EFFECTS OF INTERRUPTION on eye movements AND COMPREHENSION DURING READING ON DIGITAL DEVICES, LEARNING AND INSTRUCTION	GUILLAUME CHEVET, THIERRY BACCINO, LUCAS MARLOT, ANNIE VINTER, VÉRONIQUE DRAI-ZERBIB,, HTTPS://DOI.ORG/10.1016/J.LEARNINSTRUC.2021.101565, 80, (101565), (2022).	HTTPS://DOI.ORG/10.1016/J.LEARNINSTRUC.2021.101565	ABSTRACT THE GROWING USE OF DIGITAL DEVICES BRINGS ABOUT INTERRUPTIONS DURING READING. THE AIM OF THE PRESENT STUDY IS TO OBSERVE THE CONSEQUENCES OF AN INTERRUPTION ON READING BEHAVIOR AND TEXT COMPREHENSION WHEN THE INFORMATION THAT IS EVALUATED IS THE INFORMATION THAT IS BEING READ AT THE TIME THE INTERRUPTION OCCURS. EYE MOVEMENTS (MEAN NUMBER OF FIXATIONS, REGRESSIVE FIXATIONS AND MEAN FIXATION DURATION) WERE RECORDED WHILE READING FOUR LONG TEXTS. READING WAS INTERRUPTED BY AN ARITHMETIC VERIFICATION TASK EITHER IN THE MIDDLE OF A PARAGRAPH

			(INTRA-PARAGRAPH CONDITION) OR BETWEEN TWO SUCCESSIVE PARAGRAPHS (INTER-PARAGRAPH CONDITION). THE ANALYSIS OF THE EYE MOVEMENTS SHOWED MORE REREADING BEHAVIORS WHEN AN INTERRUPTION OCCURRED. THE PARTICIPANTS WHO UNDERSTOOD THE TEXT BEST WERE ALSO THOSE WHO REREAD THE MOST. THE COMPREHENSION PERFORMANCES WERE NOT AFFECTED BY THE INTERRUPTION, IRRESPECTIVE OF ITS POSITION (INTER- OR INTRA-PARAGRAPH). THIS PRESERVATION OF PERFORMANCE IS DISCUSSED IN RELATION TO LTWM THEORY.
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**The role of
alpha**

**Joshua J.
Foster**

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Covert spatial
attention allows us
to prioritize visual
processing at

**oscillations
in spatial
attention:
Limited
evidence for
a
suppression
account**

**and
Edward
Awh**

MC6506396/

relevant locations. A fast growing literature suggests that alpha-band (8-12 Hz) oscillations play a key role in this core cognitive process. It is clear that alpha-band activity tracks both the locus and timing of covert spatial orienting. There is limited evidence, however, for the widely embraced view that alpha oscillations suppress irrelevant visual information during spatial selection. Extant evidence is equally compatible with an account in which alpha activity enables spatial selection through signal enhancement rather than distractor suppression. Thus, more work is needed to characterize the

**computational role
of alpha activity in
spatial attention.**

**Keywords: spatial
attention, alpha,
oscillations,
suppression,
inhibition**

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Abstract

Rationale

Nicotine has been shown to improve both memory and attention when assessed through speeded motor responses. Since very few studies have assessed effect but inefficient: nicotine differentially modulates discrete components of attention

Signe Vangkilde, Claus Bundesen, and Jennifer T. Coullts of nicotine on visual attention using measures that are uncontaminated by motoric effects, nicotine's attentional

effects may, at least partially, be due to speeding of motor function.

Objectives

Using an unspeeded, accuracy-based test, the CombiTVA paradigm, we examined whether nicotine enhances attention when it is measured independently of motor processing.

Methods

We modelled data with a computational theory of visual attention (TVA; Bundesen 1990) so as to derive independent estimates of several distinct components of attention from performance of the single task: threshold of visual perception, perceptual processing speed, visual short-term memory storage capacity and top-down controlled selectivity. Acute effects of nicotine (2 mg gum) on performance were assessed in 24 healthy young non-smokers in a

placebo-controlled
counterbalanced,
crossover design.
Chronic effects of
nicotine were
investigated in 24 age-
and education-matched
minimally deprived
smokers.

Results

Both an acute dose of
nicotine in non-smokers
and chronic nicotine
use in temporarily
abstaining smokers
improved perceptual
thresholds but slowed
subsequent perceptual
speed. Moreover, both
acute and chronic
nicotine use reduced
attentional selectivity
though visual
short-term memory
capacity was
unimpaired.

Conclusions

Nicotine differentially
affected discrete
components of visual
attention, with acute
and chronic doses
revealing identical
patterns of
performance. We
challenge prior reports
of nicotine-induced

speeding of information processing by showing, for the first time, that nicotine slows down perceptual processing speed when assessed using accuracy-based measures of cognitive performance.

Keywords: Nicotine, Attention, Cognition, Perceptual processing speed, Selectivity, Memory, Smoker, Non-smoker, Human

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