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The following page shows the career & education requirements, salary and job outlook for Physiological Psychology around the country. What We Do The field of physiological psychology is biological psychology around the country. What We Do The field of physiological psychology is biological psychology around the country. What We Do The field of physiological psychology is biological psychology around the country.
Psychologists in this particular field also study the five senses, developing theories on the relationships between brain and behavior. Although heavily based in research, physiological psychology is also practical in nature. They aim to understand what certain behaviors are caused by, including reproductive behavior, ingestion, communication,
memory, learning, and the senses, applying this knowledge to improve neurological disorders. As such, they also study psychopharmacology, determining the impact of drugs on the brain. Work Environment Many physiological psychologists work in hospitals, as they are able to have access tools, such as PET scanners and MRI technology, to monitor
reactions in the brain. They also work closely with patients who have brain surgery or brain illnesses, such as cancer or epilepsy, performing research withing laboratories and medical facilities. Controversially, many work in animal research withing laboratories and medical facilities.
necessary ethical guidelines when it comes to the treatment of animals, and that the results of their research can help improve the lives of many people. How to Become a Physiological psychology, it is often
recommended to build up a solid foundation in the subject area. After the bachelor's degree, where you can choose the medical psychology specialization. In order to call yourself a psychology specialization. In order to call yourself a psychology specialization.
Psy.D. The Ph.D. is the more relevant degree for a physiological psychologist. Training & Certification Requirements Each state has its own requirements in terms of licenses and certification for physiologists. The American Psychologists. The American Psychologists.
requirements within each state are. Certification is usually valid for a certain period of time only, and must be maintained either through proof of continuous education credits, or by retaking the examination. Physiological Psychology Related Job Titles According to Indeed.com, the following career/job titles with salary figures are most closely related
to Physiological Psychology. Physiological Psychology Earning Potential According to the U.S. Bureau of Labor Statistics, all psychologists, regardless of their field of specialization, earned a median salary of $72,580 per year as of May 2015. Physiological Psychology Job Outlook Growth in demand for professionals is expected to be strong in the field
of psychology, with the U.S. Bureau of Labor Statistics projecting a 19% growth from 2014 to 2024, which is much faster than the national average for most other professions. According to Indeed.com, the average for most other professions. According to Indeed.com, the average national salary of jobs for Physiology was $50,000.00 with a high confidence ranking based on over 250 sources. Average
 Physiological Psychology salaries for job postings nationwide are 13% lower than average salaries for all job postings nationwide. Physiological Psychology salaries in each state around the country. The figures are based on the total number of job postings by employers through Indeed.com.
For example, DC had the largest quoted salary of $31,000. Alaska are 26% lower than average Physiological Psychology salaries for job postings nationwide. The
average salary ranks 48th among states in the country. There were no current job openings from employers in this state. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $37,000 . Alabama - $51,000 (High Confidence (more than 250 sources)) Rank: 11th Average Physiological Psychology salaries for job postings in Alabama
are 1% higher than average Physiological Psychology salaries for job postings nationwide. The average salary ranks 11th among states in the country. There were also job openings from employers like Samford University and WeightNot. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $51,000 . Arkansas - $51,000 (High
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the country. There were also job openings from employers like WeightNot, Arizona State University, Arizona State Universit
Physiological Psychology salaries for job postings in California are 7% higher than average Physiological Psychology salaries for job postings in California State
University, and Argosy University. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $54,000 . Colorado - $44,000 (High Confidence (more than 250 sources)) Rank: 33rd Average Physiological Psychology salaries for job postings in Colorado are 11% lower than average Physiological Psychology salaries for job postings
nationwide. The average salary ranks 33rd among states in the country. There were also job openings from employers like STG International, University of Northern Colorado, Kaiser Permanente, and WeightNot. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $44,000. Connecticut - $58,000 (High Confidence (more than 250 to be 190,000) (
sources)) Rank: 4th Average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings nationwide. The average Physiological Psychology salaries for job postings nationwide. The average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiological Psychology salaries for job postings in Connecticut are 15% higher than average Physiology salaries for job postings in Connecticut are 15% higher than average Physiology salaries for job postings in Connecticut are 15% higher than average Physiology salaries for job postings in Connecticut are 15% higher than average Physiology salaries for job postings in Connecticut are 15% higher than 25% higher than 25
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also job openings from employers like Fairfax County Government, ICF, WeightNot, and SPARK Experience. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $63,000. Delaware - $44,000 (High Confidence (more than 250 sources)) Rank: 34th Average Physiological Psychology $63,000. Delaware are 12%
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Rank: 26th Average Physiological Psychology salaries for job postings in Florida are 7% lower than average Physiological Psychology salaries for job postings nationwide. The average salary ranks 26th among states in the country. There were also job openings from employers like WeightNot, Quantum Improvements Consulting, and Argosy
University. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $47,000 . Georgia - $57,000 (High Confidence (more than 250 sources)) Rank: 5th Average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Physiological Psychology salaries for job postings in Georgia are 14% higher than average Psychology salaries for job postings in Georgia are 14% higher than average P
ranks 5th among states in the country. There were also job openings from employers like OFS FITEL LLC, WeightNot, Entourage Consulting LLC., and Loyal Source Government Services. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $57,000 . Hawaii - $31,000 (High Confidence (more than 250 sources)) Rank: 51st Average
 Physiological Psychology salaries for job postings in Hawaii are 38% lower than average Physiological Psychology ut Manoa. In USD as of October
24, 2016 60k 120k 180k Physiological Psychology $31,000. Iowa - $49,000 (High Confidence (more than average Physiological Psychology salaries for job postings nationwide. The average salary ranks 16th among states in the country.
There were also job openings from employers like WeightNot. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology salaries for job postings in Idaho are 34% lower than average Physiological Psychology salaries for
job postings nationwide. The average salary ranks 50th among states in the country. There were no current job openings from employers in this state. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $33,000 . Illinois - $57,000 (High Confidence (more than 250 sources)) Rank: 6th Average Physiological Psychology salaries for
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 Psychology $57,000. Indiana - $48,000 (High Confidence (more than 250 sources)) Rank: 20th Average Physiological Psychology salaries for job postings in Indiana are 4% lower than average Physiological Psychology salaries for job postings from
employers like WeightNot. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $48,000 (High Confidence (more than 250 sources)) Rank: 28th Average Physiological Psychology salaries for job postings in Kansas are 9% lower than average Physiological Psychology salaries for job postings nationwide. The
average salary ranks 28th among states in the country. There were also job openings from employers like WeightNot. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $46,000 . Kentucky - $43,000 (High Confidence (more than 250 sources)) Rank: 41st Average Physiological Psychology salaries for job postings in Kentucky are
14% lower than average Physiological Psychology salaries for job postings nationwide. The average salary ranks 41st among states in the country. There were also job openings from employers like WeightNot. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $43,000. Louisiana - $45,000 (High Confidence (more than 250 and 250 are confidence).
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180k Physiological Psychology $45,000. Massachusetts - $60,000 (High Confidence (more than 250 sources)) Rank: 2nd Average Physiological Psychology salaries for job postings nationwide. The average salary ranks 2nd among states in the country.
There were also job openings from employers like Massachusetts General Hospital(MGH), WeightNot, Commonwealth of Massachusetts, and Alkermes, Inc.. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $60,000 . Maryland - $51,000 (High Confidence (more than 250 sources)) Rank: 13th Average Physiological Psychology
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in Minnesota are 13% lower than average Physiological Psychology salaries for job postings nationwide. The average salary ranks 36th among states in the country. There were also job openings from employers like Minnesota Department of Human Services, St. Olaf College, WeightNot, and Bethel University. In USD as of October 24, 2016 60k 120k
180k Physiological Psychology $44,000 . Missouri - $49,000 (High Confidence (more than 250 sources)) Rank: 17th Average Physiological Psychology salaries for job postings nationwide. The average salary ranks 17th among states in the country. There were
 also job openings from employers like WeightNot and Southeast Missouri State University. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $49,000 . Mississippi - $52,000 (High Confidence (more than 250 sources)) Rank: 9th Average Physiological Psychology $49,000 . Mississippi are 5% higher than average
 Physiological Psychology salaries for job postings nationwide. The average salary ranks 9th among states in the country. There were no current job openings from employers in this state. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $52,000 . Montana - $42,000 (High Confidence (more than 250 sources)) Rank: 42nd
Average Physiological Psychology salaries for job postings in Montana are 17% lower than average Physiological Psychology salaries for job postings in this state. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology salaries for job postings in this state.
Psychology $42,000 . North Carolina - $48,000 (High Confidence (more than 250 sources)) Rank: 21st Average Physiological Psychology salaries for job postings nationwide. The average salary ranks 21st among states in the country. There were also job
openings from employers like WeightNot, Apex Tool Group, Pinehurst Surgical, and Wake Forest University. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $48,000 . North Dakota - $44,000 (High Confidence (more than 250 sources)) Rank: 37th Average Physiological Psychology salaries for job postings in North Dakota are
11% lower than average Physiological Psychology salaries for job postings nationwide. The average salary ranks 37th among states in the country. There were no current job openings from employers in this state. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $44,000. Nebraska - $36,000 (High Confidence (more than 250 to be controlled to be c
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Physiological Psychology salaries for job postings in New Mexico are 13% lower than average Physiological Psychology salaries for job postings nationwide. The average salary ranks 38th among states in the country. There were also job openings from employers like Northrop Grumman and WeightNot. In USD as of October 24, 2016 60k 120k 180k
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postings nationwide. The average salary ranks 3rd among states in the country. There were also job openings from employers like WeightNot, Vassar College, and University of Rochester. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $60,000 . Ohio - $48,000 (High Confidence (more than 250 sources)) Rank: 22nd Average
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23rd among states in the country. There were also job openings from employers like WeightNot and University of Oregon. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology salaries for job postings in
Pennsylvania are 4% lower than average Physiological Psychology salaries for job openings from employers like The University of Pennsylvania, and Children's Hospital of Philadelphia. In USD as of
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country. There were also job openings from employers like Fairfax County Government, WeightNot, University of Virginia, and Old Dominion University. In USD as of October 24, 2016 60k 120k 180k Physiological Psychology $50,000 . Vermont - $44,000 (High Confidence (more than 250 sources)) Rank: 39th Average Physiological Psychology salaries
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27th Average Physiological Psychology salaries for job postings in West Virginia are 6% lower than average Physiological Psychology salaries for job postings in the country. There were also job openings from employers like WeightNot. In USD as of October 24, 2016 60k 120k 180k
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current job openings from employers in this state. In USD as of October 24, 2016 60k 120k 180k Physiological psychology $41,000. Learn More The biological approach explains human behaviour, cognition, and emotions through internal biological approach explains human behaviour, cognition, and emotions through internal biological approach explains human behaviour, cognition, and emotions through internal biological mechanisms like genetics, brain function, hormones, and neurotransmitters. It focuses on how our
biology affects our psychology. Biological Determinism: Behaviors and mental processes are seen as products of physiological and genetic influences. Evolutionary Adaptation: Many behaviors are understood as adaptations shaped by evolutionary processes, increasing the likelihood of survival and reproduction. Scientific Methodology: Research is
conducted using rigorous scientific methods such as brain imaging techniques (MRI, PET scans), genetic analyses, and controlled experiments to objectively study psychological phenomena. Genetic Influence: Psychological traits, including intelligence, personality, and vulnerability to certain disorders, have significant hereditary components,
investigated through twin and family studies. Comparative Approach: Insights gained from animal studies, based on physiology. The biological approach believes behavior to be a consequence of our genetics and physiology. It is the only
approach in psychology that examines thoughts, feelings, and behaviors from a biological and, thus physical point of view. Therefore, all that is psychological cause. The biological approach assumes all human behaviour has a biological origin. It insists that
understanding internal biological structures and processes like genes, the nervous system, and neurochemistry is necessary to fully comprehend human behaviour. Nervous system (PNS), and the endocrine system are believed by biological psychologists.
to determine behaviour. Behaviour is controlled by neuronal action, such as eating or breathing. Case studies, like that of Phineas Gage, are used to demonstrate the influence of biological structures (e.g., frontal cortex) on behaviour (e.g., inhibition) Brain: The brain is central to consciousness and controls voluntary and involuntary movements and
 bodily functions. It communicates with the body through the nervous system. Specific areas of the brain are linked to general functions, for example, the occipital lobe with visual perception and the parietal lobe with sensory information processing. Biological psychologists study how the structure and function of the brain relate to behaviour.
Neurochemistry: Chemicals like neurotransmitters transmit signals between neurons at synapses. Imbalances in neurotransmitters are associated with atypical behaviour, such as low serotonin (mood) linked to depression or aggressive behaviour, such as low serotonin (mood) linked to depression or aggressive behaviour, such as low serotonin (mood) linked to depression or aggressive behaviour, and high dopamine (reward) associated with schizophrenia. Hormones, released by the endocrine
system, organise the nervous system and body tissues and activate behaviour, concentration, aggressiveness, and reaction to stress. Hormones can influence behaviour, for example, high testosterone levels are associated with defensiveness, and reaction to stress. Hormones can influence behaviour, for example, high testosterone levels are associated with defensiveness, and reaction to stress.
 that genes, which carry information in the form of DNA, are passed down through generations and carry instructions for characteristics, including some behavioural or psychological traits. Genetic inheritance and interaction with the
environment. Heritability measures how strongly differences among individuals for a trait are related to differences among their genes. Twin studies seek to quantify the genetic contribution to a wide range of human traits and behaviors by comparing individuals with varying degrees of genetic related ness raised in similar or differences among their genes.
 Research of identical (MZ) and non-identical (DZ) twins, has provided evidence suggesting a genetic component to psychological conditions like schizophrenia and depression. Psychological researchers study genetics to better understand the biological conditions like schizophrenia and depression. Psychological researchers study genetics to better understand the biological basis contributing to certain behaviours, acknowledging that while humans share biological
 mechanisms, we are unique, and these mechanisms are expressed in a wide variety of behaviours, thoughts, and reactions The biological approach, particularly through evolutionary psychology, assumes that some human behaviours are adaptations that have evolved over time. These behaviours, influenced by genetics, are seen as having provided an
evolutionary advantage, maximising chances of survival and reproduction, and thus have been 'naturally selected' and inherited across generations. This perspective originates with Charles Darwin's theory of evolution by natural selection. Evolutionary psychology seeks to understand the ultimate biological causes of behaviour, viewing behaviour, viewing behaviour, viewing behaviour likewing the control of the
any anatomical characteristic as demonstrating adaptation to surroundings, including the physical and social environment. Research in this area empirically tests predictions about psychological adaptations, such as preferences for food, habitat, or mates, or traits that improve group living like cooperation or detecting frauds. Studies comparing mate
 selection preferences across cultures, for example, are presented as evidence for evolved traits promoting reproductive success. The biological approach frequently employs a comparative method by studying different species of animals to gain insights into human behaviour. This method operates on the assumption that humans share common
 biological mechanisms and evolutionary history with other animals, particularly primates, which allows for comparison. The ultimate goal of such animals themselves. One reason for using animal models is that certain types of research
 particularly experimental manipulations of biological structures or processes, might be unethical or impractical to conduct on human participants. Studying animals provides greater control over the experimental process, potentially minimising the influence of factors like demand characteristics or individual differences seen in human studies
 Psychology should be seen as a science: The biological approach strongly promotes the use of scientific methods in investigation. This includes precise scientific methodologies such as fMRIs, PET scans, drug trials, EEGs, laboratory experiments, blood tests, and brain scanning. These techniques provide accurate measures of internal processes
 previously inaccessible. These highly controlled methods can be tested for reliability and allow for drawing cause-effect conclusions more easily, although it is important to remember that explanations are often based on correlational results, which do not necessarily prove causation. Everyday Examples: Biology in Action Understanding how biolog
affects behavior doesn't require looking far - it's evident in everyday experiences: 1. The Rush of Adrenaline (Fight-or-Flight Response) Imagine you're walking home at night, and suddenly you hear footsteps rapidly approaching from behind. Immediately, your heart races, breathing quickens, and muscles tense. This is your body's fight-or-flight Response) Imagine you're walking home at night, and suddenly you hear footsteps rapidly approaching from behind. Immediately, your heart races, breathing quickens, and muscles tense. This is your body's fight-or-flight Response) Imagine you're walking home at night, and suddenly you hear footsteps rapidly approaching from behind. Immediately, your heart races, breathing quickens, and muscles tense. This is your body's fight-or-flight Response in the properties of the pro
response at work. Triggered by hormones such as adrenaline (released by your adrenal glands), your body rapidly prepares you to either confront the danger or run away from it. This biological mechanism has evolved to keep humans safe in life-threatening situations. 2. Heartbreak and Physical Pain Why does emotional heartbreak feel physically
painful? Research suggests areas of the brain that process emotional pain (like the loss of a relationship) overlap with regions responsible for processing physical injury, causing genuine, physical sensations of the brain that process emotional pain (like the loss of a relationship) overlap with regions responsible for processing physical pain. This means that when you experience rejection or loss, the resulting emotional stress activates the same neural pathways as physical injury, causing genuine, physical sensations of the brain that process emotional pain (like the loss of a relationship) overlap with regions responsible for processing physical pain.
 pain or discomfort. 3. Feeling Hungry (Role of Hormones and Neurotransmitters) Ever wondered why your mood dips when you're hungry, turning you 'hangry'? Blood sugar drops trigger hormonal responses, affecting neurotransmitters such as serotonin (associated with mood regulation). Low blood sugar levels can reduce serotonin production
 leaving you irritable or moody - clearly demonstrating how neurochemistry influences emotional states. Applications 1: Neurotransmitters mental health conditions. Neurotransmitters, chemical messengers in the brain, facilitate communication between neurons
 For example, serotonin is closely linked with mood regulation, where lower levels have been associated with depression and anxiety disorders. Similarly, dopamine (reward) dysregulation is implications are largely positive
 because understanding neurotransmitter roles allows psychologists and psychiatrists to develop targeted treatments, like Selective Serotonin Reuptake Inhibitors (SSRIs) for depression or dopamine blockers for schizophrenia. This targeted approach enhances treatment efficacy, directly improving patients' quality of life. 2: Genetics and Behavior:
Twin Studies Twin studies demonstrate a strong genetic influence on various psychological traits. Twin research compares identical (monozygotic) twins, who share about 50%. Such studies reveal that traits like intelligence (IQ) and certain personality characteristics, including
extraversion and neuroticism, have considerable genetic components. For instance, identical twins (around 40-50%), highlighting genetics' role in these traits. These findings have both positive and mixed implications. Positively, recognizing
genetic influences helps individuals understand their predispositions, aiding personalized education and interventions. However, it could negatively promote determinism, leading individuals or societies to underestimate the role of personal effort or environmental influences, potentially limiting motivation or fostering stigma about psychological
 disorders. 3: Brain Structures and Behavior: Phineas Gage, a classic psychological case, survived a severe brain injury where an iron rod penetrated his frontal lobes. Previously calm and responsible, Gage experienced significant personality.
 changes afterward, becoming impulsive, aggressive, and socially inappropriate. This case illustrated clearly how specific brain regions (e.g., the frontal lobes) control behaviors associated with impulse control, social conduct, and emotional regulation. This case study has strongly positive implications for psychology, as it established clear links
between brain areas and behavioral outcomes, influencing the development of neuropsychology. Understanding brain-behavior relationships enables more precise diagnostic tools and rehabilitation strategies for brain injuries, positively impacting treatment effectiveness and patient outcomes. 4: Evolutionary Psychology and Human Behavior
Evolutionary processes shape specific psychological traits and behaviors, such as mate preferences, aggression, and even altruism, evolved because they provided adaptive advantages. For instance, cross-cultural research has consistently shown that
 females generally prefer mates with resource-providing capabilities, whereas males emphasize fertility indicators like youth. These preferences evolved because they increased reproductive success and offspring survival. The implications of evolutionary explanations are mixed. Positively, they deepen the understanding of human nature, guiding
 further research into universal human behaviors and informing therapeutic approaches. Negatively, oversimplification or misinterpretation of evolutionary findings can lead to stereotypes or justify harmful behaviors, limiting societal efforts towards equality and social responsibility. Twin studies provide geneticists with a kind of natural experiment in
 which the behavioral likeness of identical twins (whose genetic relatedness is 1.0) can be compared with the resemblance of dizygotic twins (whose genetic relatedness is 0.5). In other words, if heredity (i.e., genetics) affects a given trait or behavior, then identical twins should show a greater similarity for that trait compared to fraternal (non-
identical) twins. There are two types of twins: Monozygotic = identical twins (share 100% genetic information). Dizygotic = non-identical twins (share 50% genetic information) twins. Twins are
concordant for a trait if both or neither of the twins exhibits the trait. Twins are said to be disconcordant for a trait if one shows it and the other does not. Identical twins have just 50 percent of genes in common. Thus, if concordance rates (which can range from 0 to 100) are significantly higher for
 identical twins than for fraternal twins, then this is evidence that genetic play an important role in the expression of that particular behavior. Twin studies have shown that genetic influence varies significantly across different traits. For example: Height: Has a high genetic influence, around 90% (0.9). General Mental Ability (IQ): Is estimated to be
 influenced by genetic factors by about 50% to 70%, closer to 70% according to more recent studies. Mean correlations for IQ in identical twins across multiple studies are around 0.73, suggesting about three-quarters of general ability is genetically influenced. Personality Traits (e.g., extroversion, sociability): Show a genetic influence of around 50% according to more recent studies.
(0.5). Personality similarity between identical twins raised apart and those raised together did not differ, suggesting personality similarity to family is due to shared environment of growing up together. Other Traits: Genetic influence has also been found for traits like sexual orientation, vocational interests, job satisfaction,
 migraine headaches, diet preferences, and whether someone is a morning or evening person. Dental health (cavities, appearance, missing teeth) and McGue (1981) conducted a review of 111 worldwide studies which compared the IQ of
 family members. The correlation figures below represent the average degree of similarity between the two people (the higher the similarity, the more similar the IQ scores). Identical twins raised together = .86 (correlation). Identical twins raised apart = .72 Non-identical twins reared together = .80 Siblings reared together = .86 (correlation).
apart = .24 Cousins = .15 However, there are methodological flaws that reduce the validity of twins raised apart have been criticized as the twins often share similar environments and McGue included many poorly performed and biased studies in their meta-analysis. Also, studies comparing the behavior of twins raised apart have been criticized as the twins often share similar environments and many poorly performed and biased studies in their meta-analysis.
are sometimes raised by a non-parental family member. 2. Electroencrphalograms (EEGs) This is a way of recording the electrical activity of the brain (it doesn't hurt, and it isn't dangerous). Electrodes are attached to the scalp, and brain waves can be traced. EEGs have been used to study sleep, and it has been found that during a typical night's
 sleep, we go through a series of stages marked by different patterns of brain wave. One of these stages is known as REM sleep (Rapid Eye Movement sleep) and it seems that this is when we dream (whether we remember it or not). 3. Brain
imaging (MRI, PET, EEG) More recently, methods of studying the brain have been developed using various types of scanning equipment hooked up to powerful computers. For example, brain imaging fMRI and PET scans map areas of the brain to be seen directly
Such processing causes the area of the brain involved to increase metabolism and "light up" on the scan. The CAT scan (Computerised Axial Tomography) is a moving X-ray beam which takes "pictures" from different angles around the head and can be used to build up a 3-dimensional image of which areas of the brain are damaged. Even more
sophisticated is the PET scan (Positron Emission Tomography) which uses a radioactive marker as a way of studying the brain at work. The procedure is based on the principle that the brain requires energy to function and that the regions more involved in the performance of a task will use up more energy. What the scan, therefore, enables
researchers to do is to provide ongoing pictures of the brain as it engages in mental activity. These (and other) methods for producing images of brain structure and functioning have been extensively used to study language and PET scans, in particular, are producing evidence that suggests that the Wernicke-Gerschwind model may not after all be the
answer to the question of how language is possible. 4. Neuro Surgery We know so little about the brain and its functions are so closely integrated that brain surgery is usually only attempted as a last resort. H.M. suffered such devastating epileptic fits that, in the end, a surgical technique that had never been used before was tried out. This technique
cured his epilepsy, but in the process, the hippocampus had to be removed (this is part of the limbic system in the middle of the brain.) Afterwards, H.M. was left with severe anterograde amnesia. I.e., He could remember what happened to him in his life up to when he had the operation, but he couldn't remember anything new. So now we know the
 hippocampus is involved in memory. By reducing behavior to genetics, neurotransmitters, or brain structures alone, the biological approach neglects important psychological, social, and cultural influences. For instance, the biological explanation of depression focuses primarily on neurotransmitter imbalance (low serotonin), ignoring cognitive factors
like negative thinking patterns, life stressors, or social isolation. The implications of this reductionism are negative. It can lead to incomplete understanding and treatments that may overlook crucial psychological or environmental causes. Patients may be given medication to correct neurochemical imbalances without addressing underlying cognitive
or social factors, potentially limiting treatment effectiveness and overlooking comprehensive, holistic interventions. Biological determinism argues behavior strictly to genetic predisposition
could lead individuals to disclaim personal responsibility. The consequences are negative, as this perspective may undermine personal accountability, discourage behavioral change efforts, and potentially affect legal responsibility and treatment adherence. Thus, biological determinism risks socially and ethically problematic outcomes. Much biological
research, particularly neuroimaging or genetic studies, is correlational. For instance, brain abnormalities observed in individuals with OCD (caudate nucleus issues) could either cause OCD symptoms or result from prolonged symptoms or result fr
Misinterpreting correlational data may lead to incorrect conclusions about treatments, which might target symptoms rather than underlying causes. Highly controlled settings, such as brain scans conducted in artificial laboratory conditions, may not reflect natural brain activity. Participants might behave differently in unnatural, experimental
conditions, distorting true biological responses (e.g., exaggerated stress reactions measured in a laboratory rather than real life). This negative implication limits generalisability, potentially making biological findings less relevant to everyday life contexts. Treatments or theories developed from these studies might be less effective when applied in
real-world environments. Psychotropic medications, although beneficial, can have substantial side effects, including addiction, withdrawal symptoms, emotional blunting, or physical health impacts. For example, antipsychotic medications can lead to weight gain, diabetes, or motor dysfunction. The consequence is negative, as these side effects can
deter patients from continuing treatment, reduce quality of life, and sometimes make the biological treatment less beneficial overall. This highlights the necessity of balanced approaches, integrating biological treatments with psychological treatments with psychological treatments with psychological treatment less beneficial overall. This highlights the necessity of balanced approaches, integrating biological treatments with psychological treatment less beneficial overall.
controlled laboratory experiments provide quantitative, objective data. This reduces researcher bias and increases reliability. For example, studies using fMRI to measure brain activity, such as investigating amygdala responses reliability. For example, studies using fMRI to measure brain activity, such as investigating amygdala responses reliability.
 methods is positive. It strengthens the validity of biological explanations, allows replication, and enhances psychology's credibility as a scientific discipline. Thus, biological psychology's findings are widely respected and practically applied, for example, in developing pharmacological treatments for disorders like depression or OCD. By identifying
biological factors such as neurotransmitter imbalances (e.g., serotonin deficiency in depression), effective pharmacological treatments such as antidepressants (SSRIs) can be developed. For instance, SSRIs have been effectively used to manage symptoms of OCD, depression, and anxiety. The consequence of this practical approach is highly positive,
as it provides effective symptom management and relief to sufferers. This significantly enhances patients' quality of life and demonstrates the biological approach's tangible impact on healthcare. Cognitive neuroscience merges biological approach's tangible impact on healthcare.
during memory tasks empirically confirm cognitive theories about memory encoding. The consequence is positively significant, as it enables a more complete understanding of psychological phenomena, bridging gaps between cognitive theories and Debates Free will vs.
determinism The biological approach is strongly deterministic, meaning it views human behavior as entirely driven by biological processes (such as genetics, brain chemistry, and brain structure) over which individuals have little or no personal control. For example, attributing depression primarily to genetic inheritance or neurotransmitter
imbalances (like low serotonin levels) illustrates biological determinism. This perspective implies individuals have limited personal agency over their behavior or mental health, raising important ethical considerations about personal agency over their behavior or mental health, raising important ethical considerations about personal agency over their behavior or mental health, raising important ethical considerations about personal agency over their behavior or mental health, raising important ethical considerations about personal agency over their behavior or mental health, raising important ethical considerations about personal agency over their behavior or mental health, raising important ethical considerations about personal agency over their behavior or mental health, raising important ethical considerations about personal agency over their behavior or mental health, raising important ethical considerations about personal agency over their behavior or mental health, raising important ethical considerations are not all the personal agency over their behavior or mental health, raising important ethical considerations are not all the personal agency over their behavior or mental health, raising important ethical considerations are not all the personal agency over the perso
nature vs. nurture debate, highlighting genetic and biological factors as primary determinants of behavior. However, modern biological psychology also acknowledges the significance of environmental influences. For example, the brain is recognized as a plastic organ - meaning it continually changes and adapts through life experiences, interactions,
introversion or extraversion), but life experiences, parenting, socialization, and culture shape how these traits develop and manifest. This demonstrates a nuanced understanding—that behavior always emerges from complex gene-environment interactions, highlighting a reciprocal relationship between nature and nurture. Holism vs. reductionism The
biological approach is often criticized as reductionist because it attempts to simplify complex behaviors into explanation for obsessive-compulsive disorder (OCD) tends to focus narrowly on genetic predisposition, neurotransmitter
 imbalances (such as serotonin deficits), or abnormalities in specific brain structures. This biological reductionism overlooks other influential factors - such as early childhood experiences, conditioning (learning from rewards or punishments), cognitive processes (such as irrational beliefs), or socio-cultural contexts -that significantly impact
 psychological disorders and human behavior in general. While reductionism allows precise scientific investigation of specific biological mechanisms, it risks oversimplifying and missing the broader, holistic understanding of behavior. Idiographic vs. nomothetic The biological approach generally adopts a nomothetic perspective, meaning it seeks
 universal laws and general principles that apply broadly across all humans. It operates on the assumption that humans share fundamental physiological processes (like neural transmission, genetic inheritance patterns, and brain functions). By investigating these shared biological mechanisms through large-scale studies, biological psychologists aim to
identify predictable patterns of behavior. For example, research into the role of neurotransmitters such as serotonin in mood regulation is based on the belief that these biological processes universally influence emotional experiences across human populations. Are the research methods used scientific? Research methods within the biological
approach are notably scientific and empirical, involving rigorous and objective techniques such as neuroimaging scans (e.g., MRI, PET scans), genetic testing, biochemical analysis, and laboratory experiments. These methods allow precise, quantifiable observations and facilitate repeatability, increasing the credibility of biological research findings.
Moreover, the biological approach frequently uses animal studies, justified by the assumption that humans and animals provides greater control over experimental conditions and can ethically enable biological manipulations impossible with human participants, although this raises
ethical considerations regarding generalizability and animal welfare. Timeline The Voyage of the Beagle (1805 - 1836) - Darwin formulated his theory of natural selection by observing animals while traveling the working of the
brain. Darwin (1859) publishes On the Origin of Species by Means of Natural Selection. 1,250 copies were printed, most of which were sold on the first day. Jane Goodall (1957) began her study of primates in Africa, discovering that chimps have behaviors similar to those of all the human cultures on the planet. Edward Wilson (1975) published his
book, Sociobiology which brought together an evolutionary perspective to psychology. The birth of Evolutionary Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay, The Psychology begins with the publication of an essay begins with 
1055-1059. Darwin, C. (1859). On the Origin of Species by Means of Natural Selection, or the Preservation of Favoured Races in the Struggle for Life (1st ed.). London: John Murray. Harlow, J. M. (1848). Passage of an iron rod through the head. Boston Medical and Surgical Journal, 39, 389-393. Tooby, J., & Cosmides, L. (1992). The psychological
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for Simply Psychology Olivia Guy-Evans is a writer and associate editor for Simply Psychology, MRes, PhD, University of Manchester Saul McLeod, PhD., is a qualified psychology teacher with over 18
years of experience in further and higher education. He has been published in peer-reviewed journals, including the Journal of Clinical Psychology studies the mind, physiology studies the body. The discipline of physiological psychology combines the two to figure
out how the physical structure of the brain affects our consciousness and our thoughts. Brain injuries and problems with brain chemistry can create mental and emotional problems, particularly our brains, affect our minds. They
may be involved in pure research, or in treating mental illness. [ref2]It's also known as biological psychology and behavioral neuroscience. Article continues below this adPeople sometimes think of mind and body as separate things, but they're deeply linked. Even though the method by which consciousness forms in the brain is still a mystery, the
physical brain has a major effect on our thoughts and personalities. Chemistry is one of the influences. Our brain uses neurotransmitters to communicate from one neuron to another. Chemistry is one of the influences on the influences of the influences of the influences of the influences.
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and the physical basis of behavioral disorders. As a physiological psychologist, you can work in clinical practice or in research, or teach in your field. Workplaces includes clinics, hospitals, research laboratories and colleges. At time of writing, the average annual pay for a physiological psychologist is $56,513. Salaries range from $19,500 to $118,500
but most salaries run between $34,500 and $71,500. Years of experience and the location you're working with may be bigger factors in determining your pay than your skill level. Article continues below this ad
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