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biological determinism is the idea that biological attributes such as one's genes dictate one's destiny and environmental social and cultural factors play no role in shaping an individual biological determinism has been used to uphold white supremacy and justify racial gender and sexual discrimination as well as other biases against in biology determination is the process of matching a specimen of an organism to a known taxon for example identifying a plant the term is also used in cellular biology where it means the act of the differentiation of stem cells becoming fixed 1 differentiation follows determination as the cell elaborates a cell specific developmental program differentiation results in the presence of cell types that have clear cut identities such as muscle cells nerve cells and skin cells biological determinism the idea that most human characteristics physical and mental are determined at conception by hereditary factors passed from parent to offspring biological determinism was closely associated with the eugenics movement of the late 19th and early 20th centuries biological determinism refers to the idea that all human behavior is innate determined by genes brain size or other biological attributes this theory stands in contrast to the notion that human behavior is determined by culture or other social forces determination science cell biology the commitment of a cell to a particular path of differentiation even though there may be no morphological features that reveal this determination generally irreversible but in the case of imaginal discs of drosophila that are maintained by serial passage transdetermination may occur biological determinism also known as genetic determinism is the belief that human behaviour is directly controlled by an individual's genes or some component of their physiology generally at the expense of the role of the environment whether in embryonic development or in learning this article reviews the history of biological determinism examining its varieties from its creationist beginnings to present day biological thinking in the age of genomics it elucidates the relationship between biological determinism and racist understandings of human genetic variation sex determination results in the development of individuals with characteristics that allow them to be identified as males females or in some cases hermaphrodites biological determinism predates the formation of biology as a science nineteenth century specifically it predates the disciplines of evolution and genetics twentieth century biological determinism or genetic determinism is the notion that human behavior is dominated by an individual's genes or some element of their physiology usually at the expense of the role of the environment whether in embryonic development or learning biological determinism's definition is the theory that the majority of physical and mental traits in humans are inherited from parents and uninfluenced by nurture or environmental factors in humans and other mammals biological sex is determined by a pair of sex chromosomes xy in males and xx in females genes on the x chromosome are said to be x linked x linked genes have distinctive inheritance patterns because they are present in different numbers in females xx and males xy sex determination the establishment of the sex of an organism usually by the inheritance at the time of fertilization of certain genes commonly localized on a particular chromosome the dna in our sex chromosomes has instructions that decide our biological sex what's in the recipe dna decides the sex of humans in the same way that ingredients decide what type of cookie you make determination of biological sex is staggeringly complex involving not only anatomy but an intricate choreography of genetic and chemical factors that unfolds over time in humans sex determination is the process that determines the biological sex of an offspring and as a result the sexual characteristics that

they will develop humans typically develop as either male or female primarily depending on the combination of sex chromosomes that they inherit from their parents avian sex determination is dependent on the presence of z and w chromosomes homozygous for z zz results in a male while heterozygous zw results in a female the w appears to be essential in determining the sex of the individual similar to the y chromosome in mammals for higher organisms like humans biological sex is determined by genes on the sex chromosomes in humans as in other animals biological sex determination involves the xy system the sex in which the sex chromosomes are not the same is referred to as heterogametic or heteromorphic a sex determination system is a biological system that determines the development of sexual characteristics in an organism 1 most organisms that create their offspring using sexual reproduction have two common sexes and a few less common intersex variations in some species there are hermaphrodites 2

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this article reviews the history of biological determinism examining its varieties from its creationist beginnings to present day biological thinking in the age of genomics it elucidates the relationship between biological determinism and racist understandings of human genetic variation

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sex determination results in the development of individuals with characteristics that allow them to be identified as males females or in some cases hermaphrodites

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in humans and other mammals biological sex is determined by a pair of sex chromosomes xy in males and xx in females genes on the x chromosome are said to be x linked x linked genes have distinctive inheritance patterns because they are present in different numbers in females xx and males xy

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sex determination the establishment of the sex of an organism usually by the inheritance at the time of fertilization of certain genes commonly localized on a particular chromosome

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the dna in our sex chromosomes has instructions that decide our biological sex what s in the recipe dna decides the sex of humans in the same way that ingredients decide what type of cookie you make

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determination of biological sex is staggeringly complex involving not only anatomy but an intricate choreography of genetic and chemical factors that unfolds over time

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avian sex determination is dependent on the presence of z and w chromosomes homozygous for z z results in a male while heterozygous zw results in a female the w appears to be essential in determining the sex of the individual similar to the y chromosome in mammals

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for higher organisms like humans biological sex is determined by genes on the sex chromosomes in humans as in other animals biological sex determination involves the xy system the sex in which the sex chromosomes are not the same is referred to as heterogametic or heteromorphic

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a sex determination system is a biological system that determines the development of sexual characteristics in an organism 1 most organisms that create their offspring using sexual reproduction have two common sexes and a few less common intersex variations in some species there are hermaphrodites 2

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