WIKIPEDIA The Free Encyclopedia Human nature

Human nature comprises the fundamental <u>dispositions</u> and characteristics—including ways of <u>thinking</u>, <u>feeling</u>, and <u>acting</u>—that <u>humans</u> are said to have <u>naturally</u>. The term is often used to denote the <u>essence</u> of <u>humankind</u>, or what it '<u>means</u>' to <u>be</u> human. This usage has proven to be controversial in that there is dispute as to whether or not such an essence actually exists.

Arguments about human nature have been a central focus of <u>philosophy</u> for centuries and the concept continues to provoke lively philosophical debate.^{[1][2][3]} While both concepts are distinct from one another, discussions regarding human nature are typically related to those regarding the comparative importance of <u>genes</u> and <u>environment</u> in <u>human development</u> (i.e., '<u>nature versus nurture</u>'). Accordingly, the concept also continues to play a role in academic fields, such as both the <u>natural</u> and the <u>social sciences</u>, and <u>philosophy</u>, in which various theorists claim to have yielded insight into human nature.^{[4][5][6][7]} Human nature is traditionally contrasted with human attributes that vary among <u>societies</u>, such as those associated with specific cultures.

The concept of nature as a standard by which to make judgments is traditionally said to have begun in <u>Greek philosophy</u>, at least in regard to its heavy influence on <u>Western</u> and <u>Middle Eastern</u> languages and perspectives.^[8] By <u>late antiquity</u> and <u>medieval times</u>, the particular approach that came to be dominant was that of <u>Aristotle's teleology</u>, whereby human nature was believed to exist somehow independently of individuals, causing humans to simply become what they become. This, in turn, has been understood as also demonstrating a special connection between human nature and <u>divinity</u>, whereby human nature is understood in terms of <u>final</u> and <u>formal causes</u>. More specifically, this perspective believes that nature itself (or a nature-creating divinity) has intentions and goals, including the goal for humanity to live naturally. Such understandings of human nature see this nature as an "idea", or "<u>form</u>" of a human.^[9] However, the existence of this invariable and <u>metaphysical</u> human nature is subject of much historical debate, continuing into modern times.

Against Aristotle's notion of a fixed human nature, the relative malleability of man has been argued especially strongly in recent centuries—firstly by early <u>modernists</u> such as <u>Thomas Hobbes</u>, <u>John Locke</u> and <u>Jean-Jacques Rousseau</u>. In his <u>Emile</u>, or <u>On Education</u>, Rousseau wrote: "We do not know what our nature permits us to be."^[10] Since the early 19th century, such thinkers as <u>Darwin</u>, <u>Freud</u>, <u>Marx</u>, <u>Kierkegaard</u>, <u>Nietzsche</u>, and <u>Sartre</u>, as well as <u>structuralists</u> and <u>postmodernists</u> more generally, have also sometimes argued against a fixed or *innate* human nature.

<u>Charles Darwin's</u> <u>theory of evolution</u> has particularly changed the shape of the discussion, supporting the proposition that the ancestors of modern humans were not like humans today. As in much of modern science, such theories seek to explain with little or no recourse to metaphysical causation.^[11] They can be offered to explain the origins of human nature and its underlying mechanisms, or to demonstrate capacities for change and diversity which would arguably violate the concept of a fixed human nature.

Classical Greek philosophy

Philosophy in <u>classical Greece</u> is the ultimate origin of the <u>Western</u> conception of the nature of things.^[8]

According to <u>Aristotle</u>, the philosophical study of human nature itself originated with <u>Socrates</u>, who turned philosophy from study of the <u>heavens</u> to study of the human things.^[12] Though leaving no written works, Socrates is said to have studied the question of how a person should best live. It is clear from the works of his students, <u>Plato</u> and <u>Xenophon</u>, and also from the accounts of Aristotle (Plato's student), that Socrates was a <u>rationalist</u> and believed that the best life and the life most suited to human nature involved <u>reasoning</u>. The <u>Socratic school</u> was the dominant surviving influence in philosophical discussion in the <u>Middle Ages</u>, amongst <u>Islamic</u>, Christian, and Jewish philosophers.

The <u>human soul</u> in the works of Plato and Aristotle has a nature that is divided in a specifically human way. One part is specifically human and rational, being further divided into (1) a part which is rational on its own; and (2) a spirited part which can understand reason. Other parts of the soul are home to desires or passions similar to those found in animals. In both Aristotle and Plato's ideas, spiritedness (*thumos*) is distinguished from the other passions (*epithūmíā*).^[13] The proper function of the "rational" was to rule the other parts of the soul, helped by spiritedness. By this account, using one's reason is the best way to live, and philosophers are the highest types of humans.

Aristotle

Aristotle—Plato's most famous student—made some of the most famous and influential statements about human nature. In his works, apart from using a similar scheme of a divided human soul, some clear statements about human nature are made:

- In contrast to other animals, humans have reason or language (*logos*) in their soul (*psyche*). According to Aristotle this means that the work (*ergos*) of a human is the actualization (*energeia*) of the soul in accordance with reason.^[14] Based upon this reasoning, the medieval followers of Aristotle formulated the doctrine that man is the "<u>Rational Animal</u>".
- Man is a conjugal animal: An animal that is born to couple in adulthood. In doing so, man builds a household (*oikos*) and, in more successful cases, a <u>clan</u> or small village run upon <u>patriarchal</u> lines.^[15] However, humans naturally tend to connect their villages into cities (poleis), which are more self-sufficient and complete.
- Man is a political animal: An animal with an innate propensity to develop more complex communities (i.e. the size of a city or town), with systems of law-making and a division of labor. This type of community is different in kind from a large family, and requires the use of human reason. Cities should not be run by a patriarch, like a village.^[16]
- Man is a mimetic animal: Man loves to use his imagination, and not only to make laws and run town councils: "[W]e enjoy looking at accurate likenesses of things which are themselves painful to see, obscene beasts, for instance, and corpses.... [The] reason why we enjoy seeing likenesses is that, as we look, we learn and infer what each is, for instance, 'that is so and so.'"[17]

For Aristotle, reason is not only what is most special about humanity compared to other animals, but it is also what we were meant to achieve at our best. Much of Aristotle's description of human nature is still influential today. However, the particular teleological idea that humans are "meant" or intended to be something has become much less popular in modern times.^[18]

Theory of four causes

For the Socratics, human nature, and all natures, are <u>metaphysical</u> concepts. Aristotle developed the standard presentation of this approach with his *theory of <u>four causes</u>*, whereby every living thing exhibits four aspects, or "causes:"

- 1. matter (hyle);
- 2. form (eidos);
- 3. effect (kinoun); and
- 4. <u>end</u> (*telos*).

For example, an <u>oak tree</u> is made of plant cells (matter); grows from an acorn (effect); exhibits the nature of oak trees (form); and grows into a fully mature oak tree (end). According to Aristotle, human nature is an example of a formal cause. Likewise, our 'end' is to become a *fully actualized human being* (including fully actualizing the mind). Aristotle suggests that the <u>human intellect</u> (voŨç, *noûs*), while "smallest in bulk", is the most significant part of the <u>human psyche</u> and should be cultivated above all else.^[19] The cultivation of learning and intellectual growth of the philosopher is thereby also the happiest and least painful life.

Chinese philosophy

Confucianism

Human nature is a central question in <u>Chinese philosophy</u>.^[20] From the <u>Song dynasty</u>, the theory of innate goodness of human beings became dominant in <u>Confucianism</u>.^[21] It is in contrast to the theory of innate evil advocated by Xunzi.^[22]

Mencius

<u>Mencius</u> argues that human nature is $\text{good}.^{\underline{[23][20][24]}}$ He understands human nature as the innate tendency to an ideal state that's expected to be formed under the right conditions.^[25] Therefore, humans have the capacity to be good, even though they are not all good.^[25]

According to Mencian theory, human nature contains four beginnings (端; *duan*) of <u>morality</u>.^[26] It consists of a sense of <u>compassion</u> that develops into <u>benevolence</u> (仁; *ren*), a sense of <u>shame</u> and <u>disdain</u> that develops into <u>righteousness</u> (義; *yi*), a sense of respect and courtesy that develops into propriety (禮; *li*), and a



Portrait of <u>Mencius</u>, a Confucian philosopher

sense of <u>right</u> and <u>wrong</u> that develops into <u>wisdom</u> (智; *zhi*).^{[24][26]} The beginnings of morality are characterized by both <u>affective</u> motivations and <u>intuitive</u> judgments, such as what's right and wrong, deferential, respectful, or disdainful.^[26]

In Mencius' view, goodness is the result of the development of innate tendencies toward the virtues of benevolence, righteousness, wisdom, and propriety.^[24] The tendencies are manifested in <u>moral emotions</u> for every human being.^[24] Reflection (思; *si*) upon the manifestations of the four beginnings leads to the development of virtues.^[24] It brings recognition that virtue takes precedence over satisfaction, but a lack of reflection inhibits moral development.^[26] In other words, humans have a constitution comprising <u>emotional</u> predispositions that direct them to goodness.^[24]

Mencius also addresses the question why the capacity for evil is not grounded in human nature.^[24] If an individual becomes bad, it is not the result of his or her constitution, as their constitution contains the emotional predispositions that direct to goodness, but a matter of injuring or not fully developing his or her

constitution in the appropriate direction.^[24] He recognizes desires of the senses as natural predispositions distinct from the four beginnings.^[26] People can be misled and led astray by their desires if they do not engage their ethical motivations.^[24] He therefore places responsibility on people to reflect on the manifestations of the four beginnings.^[26] Herein, it is not the function of ears and eyes but the function of the heart to reflect, as sensory organs are associated with sensual desires but the heart is the seat of feeling and thinking.^[27] Mencius considers core virtues—benevolence, righteousness, propriety, and wisdom—as internal qualities that humans originally possess, so people can not attain full satisfaction by solely pursuits of self-interest due to their innate morality.^[28] Wong (2018) underscores that Mencius' characterization of human nature as good means that "it contains predispositions to feel and act in morally appropriate ways and to make intuitive normative judgments that can with the right nurturing conditions give human beings guidance as to the proper emphasis to be given to the desires of the senses."^[26]

Xunzi

<u>Xunzi</u> understands human nature as the basic faculties, capacities, and desires that people have from birth.^[25] He views it as the animalistic instincts exhibited by humans before education, which includes greed, idleness, and desires.^[29] He suggests that people can not get rid of these instincts, so the existence of this human nature necessitates education and cultivation of goodness.^[29]

Xunzi argues that human nature is evil and that any goodness is the result of human activity.^{[20][30]} It is human nature to seek profit, because humans desire for sensory satisfaction.^[30] He states that "Now the nature of man is evil. It must depend on teachers and laws to become correct and achieve propriety and righteousness and then it becomes disciplined."^[20] He underscores that goodness comes from the traits and habits acquired through conscious actions, which he calls artifice (偽; *wei*).^{[31][25]} Therefore, morality is seen as a human artifice but not as a part of human nature.^[32] His claim that human nature is bad, according to Ivanhoe (1994), means that humans do not have a conception of morality and therefore must acquire it through learning, lest destructive and alienating competition inevitably arises from human desire.^[33]

Legalism

<u>Legalism</u> is based on a distrust of human nature.^[29] Adherents to this philosophy do not concern themselves with whether human goodness or badness is inborn, and whether human beings possess the fundamental qualities associated with that nature.^[34]

Legalists see the overwhelming majority of human beings as selfish in nature.^{[34][35]} They hold the view that human nature is evil.^[35] They believe that one should not expect that people will behave morally.^[34] For instance, due to the corrupt nature of humans, they did not trust that officials would carry out their duties in a fair and impartial manner.^[36] There is a perpetual political struggle, characterized by conflict among contending human actors and interests, where individuals are easily tempted due to their selfish nature at the expense of others.^[35]

According to Legalism, the selfishness in human nature can not be eliminated or altered by education or self-cultivation.^{[34][37]} It dismisses the possibility that people can overcome their selfishness and considers the possibility that people can be driven by moral commitment to be exceptionally rare.^[34] Legalists do not see the individual morality of both the rulers or the ruled as an important concern in a political system.^[34] Instead, Legalist thinkers such as <u>Han Fei</u> emphasize clear and impersonal norms and standards (such as laws, regulations, and rules) as the basis to maintain order.^[34]

In Han Fei's view, a core feature of human nature is that humans are selfish, but that their desires are satiable.^[37] He argues that competition for external goods produces disorder during times of <u>scarcity</u> due to this nature.^[37] If there is no scarcity, humans may treat each other well, but they will not become nice; it is that they do not turn to disorder when scarcity is absent.^[37] Han Fei also argues that people are all motivated by their unchanging selfish core to want whatever advantage they can gain from whomever they can gain such advantage, which especially comes to expression in situations where people can act with impunity.^[37]

Legalists posit that the selfishness in human nature can be an asset rather than a threat to a state.^[34] It is axiomatic in Legalism that the government can not be staffed by upright and trustworthy men of service, because every member of the elite—like any other member of society—will pursue their own interests and thus must be employed for their interests.^[34] Herein, individuals must be allowed to pursue their selfish interests exclusively in a manner that benefits rather than contradicts the needs of a state.^[34] Therefore, a political system that presupposes this human selfishness is the only viable



Statue of <u>Shang Yang</u>, a prominent Legalist scholar and statesman

system.^[34] In contrast, a political system based on trust and respect (rather than impersonal norms and standards) brings great concern with regard to an ongoing and irresolvable power struggle.^[34]

Legalists propose that control is a foundation of governing, which is achieved through reward and punishment.^[29] They view the usage of reward and punishment as effective political controls, as it is in human nature to have likes and dislikes.^[35] For instance, according to the Legalist statesman <u>Shang Yang</u>, it is crucial to investigate the disposition of people in terms of rewards and penalties when a law is established.^[34] He explains that a populace can not be driven to pursuits of agriculture or warfare if people consider these to be bitter or dangerous on the basis of calculations about their possible benefits, but people can be directed toward these pursuits through the application of positive and negative incentives.^[34] On the selfishness in human nature, Han Fei remarks that "Those who act as ministers fear the penalties and hope to profit by the rewards."^[37]

In Han Fei's view, the only realistic option is a political system that produces equivalents of *junzi* (君子, who are virtuous exemplars in Confucianism) but not actual *junzi*.^[37] This does not mean, however, that Han Fei makes a distinction between *seeming* and *being* good, as he does not entertain the idea that humans are good.^[37] Rather, as human nature is constituted by self-interest, he argues that humans can be shaped behaviorally to yield social order if it is in the individual's own self-interest to abide by the norms (i.e., different interests are aligned to each other and the <u>social good</u>), which is most efficiently ensured if the norms are publicly and impartially enforced.^[37]

Medieval and Renaissance philosophy

Medieval conceptions of man were particularly stimulated by two sources, viz. the <u>Bible</u> and the Classical philosophical tradition. In Scripture, two passages especially provided the foundation of a dynamic anthropology: <u>Gen</u> 1, 26 and <u>Wis</u> 2, 23 where it is said that man was created in the "image of God". No theologian could dispense with a reflection on the foundations and consequences of the vision of man

implied in this statement. While <u>Bernard of Clairvaux</u> considered that man was the image of God by inamissible <u>free will</u> (*De gratia et libero arbitrio*, IV, 9; IX, 28), the majority of authors envisaged a likeness between God and man that was based on reason. Thus, according to <u>Thomas Aquinas</u>, man can be called *imago Dei* by reason of his intellectual Nature, for "intellectual nature imitates God especially in that God knows himself and loves himself" (*Summa theologiae* I a, q. 93, a. 4). According to <u>Bonaventure</u>, all created being is a vestige of God, while beings endowed with intelligence are images of God since God is present in acts of <u>memory</u>, <u>intellect</u> and <u>will</u> as their principle. By an original fusion of <u>Christology</u> and the doctrine of man as image of God. The Son, image of the Father, and man created in the image of God. The



Early modern edition of Thomas Aquinas' *Summa Theologica* (1486), Francisceumsbibliothek, Zerbst (Anhalt), Germany

motif of man as a microcosm in which the universe is reflected is of ancient origin. This understanding of the human being enjoyed immense success in the 12th century when authors as different as Bernardus Silvestris and Godfrey of Saint Victor made use of it. Hildegard of Bingen and Honorius Augustodunensis developed a whole system of correspondences between "the little world" and the universe, the macrocosm, correspondences that also played a far from negligible role in medieval medicine and the doctrine of the four temperaments. The origin of the definition of man as a "rational animal" also went back to Antiquity. The problem of the relation between the Soul and the body which was implicitly contained in this definition, gave rise to very important debates after the arrival of Aristotle in the West and the Translation of Greek and Arabic philosophical texts. The dualist position whose cause was brilliantly defended by Bonaventure stated that man was composed of two substances, the soul being joined to the body "as mover". It is patent that the postulate of ontological autonomy of the soul, supposed in this position, accords easily with the religious belief in the immortality of the soul. The Aristotelian doctrine of the soul as "act of the organic body" and hence as the form of the body seemed to pose more of a problem as a thesis on which to base immortality. In accepting Aristotelian hylomorphism, Thomas Aquinas insisted on the unity of the human composite. The intellective soul is hence the form by which "man is a being in act, a body, a living thing, an animal and a man" (Summa theologiae I a, q. 76, a. 6, ad 1). By the act of intellection, which, in its exercise, is independent of the body, Thomas tried to demonstrate that the soul is capable of existing without the body: "Hence the intellectual principle, in other words the spirit, the intellect, possesses by itself an activity in which the body has no part. Now nothing can act by itself that does not exist by itself. ... It remains that the human soul, i.e. the intellect, the spirit, is an incorporeal and subsistent reality" (Summa theologiae I a, q. 75, a. 2). By the 14th century (William of Ockham, Jean Buridan), the philosophical proofs of the soul's immortality were contested, but the debate was particularly lively in the 15th and early 16th centuries. Marsilio Ficino's *Platonic Theology* (1474) can be understood as a vast defence of the immortality of the soul, while Pietro Pomponazzi († 1525) fought most vigorously against the very idea of any proof in favour of immortality. The rediscovery of the Aristotelian corpus favoured the discussion of another anthropological formula. In his *Politics* (I, 2; 1253 a 1-2), Aristotle advanced the idea that man was a "political animal". This conception opened up the possibility of a political anthropology of which Marsilius of Padua and Dante Alighieri provide remarkable examples. Membership of the human community was perceived as a constitutive element of humanity. In this context, certain authors reflected on communication and discovered that language was also constitutive of humanity. It is proper to man, said Thomas Aquinas, to use words to express his thoughts: "It is true that the other animals communicate their passions, roughly, as the dog expresses his anger by barking ... Hence, man is much more communicative towards others than any animal whatever that we see living gregariously, like the crane, the ant or the bee"

(*De regno*, ch. 1). The theme of the dignity of man manifests yet another aspect of medieval anthropology. An astonishing expression of it appears in John Scotus Eriugena's *De divisione naturae* (book IV) where it is said of man that "his substance is the notion by which he knows himself" (PL, 122, 770A). This optimism contrasts with the perspectives sketched out by Lotario dei Segni, the future Pope Innocent III, in the opusculum De Miseria Condicionis Humane (1195–119) which offers a striking picture of man's weaknesses and infirmities. When in 1452 Giannozzo Manetti eulogized the beauty and excellence of man, body and Soul, he wished to reply to the lamentation of Innocent, whose work had an immense success.^[38] Giovanni Pico della Mirandola too, in his celebrated *Discourse on the dignity of man*, expounded a very high idea of man. Pico celebrated first the radical freedom of man, who is capable of choosing himself, i.e. of giving himself his own essence: "I have given you neither a determined place, nor a face of your own, says the creator, nor any particular gift, O Adam, so that your place, your face and your gifts you may will, conquer and possess by yourself. Nature encloses other species in laws established by me. But you, whom no boundary limits, by your own free will, in whose hands I have placed you, define yourself." This anthropology, which has been celebrated as the beginning of modernity, is not in opposition to religion since this dignity of man belongs to him precisely because he is the image of God according to the biblical word. Yet, with an unprecedented intensity, Pico was able to give a luminous and powerful expression to this profound truth that "man outruns in advance all defined concept of man" (O. Boulnois).

Christian theology

In Christian theology, there are two ways of "conceiving human nature:" The first is "spiritual, Biblical, and theistic"; and the second is "natural, <u>cosmical</u>, and <u>anti-theistic</u>".^{[39]:6} The focus in this section is on the former. As <u>William James</u> put it in his study of human nature from a religious perspective, "religion" has a "department of human nature".^[40]

Various views of human nature have been held by theologians. However, there are some "basic assertions" in all "biblical anthropology:"^[41]

- 1. "Humankind has its origin in God, its creator."
- 2. "Humans bear the 'image of God'."
- 3. Humans are "to rule the rest of creation".

The <u>Bible</u> contains no single "doctrine of human nature". Rather, it provides material for more philosophical descriptions of human nature.^[42] For example, Creation as found in the <u>Book of Genesis</u> provides a theory on human nature.^[43]

<u>*Catechism of the Catholic Church*</u>, under the chapter "Dignity of the human person", provides an article about man as image of God, vocation to <u>beatitude</u>, freedom, human acts, passions, moral conscience, virtues, and sin.^[44]

Created human nature

As originally created, the Bible describes "two elements" in human nature: "the body and the breath or spirit of life breathed into it by God". By this was created a "living soul", meaning a "living person".^[45] According to <u>Genesis 1</u>:27, this living person was made in the "<u>image of God</u>".^[46] From the biblical perspective, "to be human is to bear the image of God."^[47]:18

Genesis does not elaborate the meaning of "the image of God", but scholars find suggestions. One is that being created in the image of God distinguishes human nature from that of the beasts.^[48] Another is that as God is "able to make decisions and rule" so humans made in God's image are "able to make decisions and rule". A third is that humankind possesses an inherent ability "to set goals" and move toward them.^{[47]:5,14} That God denoted creation as "good" suggests that Adam was "created in the image of God, in righteousness".^[49]

"Two main modes of conceiving human nature—the one of which is spiritual, Biblical, and theistic," and the other "natural, cosmical, and anti-theistic."

—John Tulloch^[39]

Adam was created with ability to make "right choices", but also with the ability to choose sin, by which he fell from righteousness into a

state of "sin and depravity". [47]:231 Thus, according to the Bible, "humankind is not as God created it."[50]

Fallen human nature

By <u>Adam</u>'s fall into sin, "human nature" became "corrupt", although it retains the <u>image of God</u>. Both the <u>Old Testament</u> and the <u>New Testament</u> teach that "sin is universal."^{[47]:17,141} For example, <u>Psalm 51:5</u> reads: "For behold I was conceived in iniquities; and in sins did my mother conceive me."^[51] Jesus taught that everyone is a "sinner naturally" because it is humanity's "nature and disposition to sin".^{[39]:124–5} Paul, in Romans 7:18, speaks of his "sinful nature".^[52]

Such a "recognition that there is something wrong with the moral nature of man is found in all religions."^{[47]:141} Augustine of Hippo coined a term for the assessment that all humans are born sinful: <u>original sin</u>.^[53] Original sin is "the tendency to sin innate in all human beings".^[54] The doctrine of original sin is held by the <u>Catholic Church</u> and most mainstream <u>Protestant</u> denominations, but rejected by the Eastern Orthodox Church, which holds the similar doctrine of ancestral fault.

"The corruption of original sin extends to every aspect of human nature": to "reason and will" as well as to "appetites and impulses". This condition is sometimes called "total depravity".^[55] Total depravity does not mean that humanity is as "thoroughly depraved" as it could become.^[56] Commenting on <u>Romans 2</u>:14, <u>John Calvin</u> writes that all people have "some notions of justice and rectitude ... which are implanted by nature" all people.^[57]

Adam embodied the "whole of human nature" so when Adam sinned "all of human nature sinned."^[58] The Old Testament does not explicitly link the "corruption of human nature" to Adam's sin. However, the "universality of sin" implies a link to Adam. In the New Testament, Paul concurs with the "universality of sin". He also makes explicit what the Old Testament implied: the link between humanity's "sinful nature" and Adam's sin^[59] In <u>Romans 5</u>:19, Paul writes, "through [Adam's] disobedience humanity became sinful."^[60] Paul also applied humanity's sinful nature to himself: "there is nothing good in my sinful nature."^{[61][62]}

The theological "doctrine of original sin" as an inherent element of human nature is not based only on the Bible. It is in part a "generalization from obvious facts" open to empirical observation.^[63]

Empirical view

A number of experts on human nature have described the manifestations of original (i.e., the innate tendency to) sin as empirical facts.

- Biologist <u>Richard Dawkins</u>, in his <u>The Selfish Gene</u>, states that "a predominant quality" in a successful surviving gene is "ruthless selfishness". Furthermore, "this gene selfishness will usually give rise to selfishness in individual behavior."^[64]
- Child psychologist Burton L. White finds a "selfish" trait in children from birth, a trait that expresses itself in actions that are "blatantly selfish".^{[65][66]}
- Sociologist <u>William Graham Sumner</u> finds it a fact that "everywhere one meets "fraud, corruption, ignorance, selfishness, and all the other vices of human nature".^[67] He enumerates "the vices and passions of human nature" as "cupidity, lust, vindictiveness, ambition, and vanity". Sumner finds such human nature to be universal: in all people, in all places, and in all stations in society.^[68]
- Psychiatrist <u>Thomas Anthony Harris</u>, on the basis of his "data at hand", observes "sin, or badness, or evil, or 'human nature', whatever we call the flaw in our species, is apparent in every person." Harris calls this condition "intrinsic badness" or "original sin".^[69]

Empirical discussion questioning the genetic exclusivity of such an intrinsic badness proposition is presented by researchers <u>Elliott Sober</u> and <u>David Sloan Wilson</u>. In their book, *Unto Others: The Evolution and Psychology of Unselfish Behavior*, they propose a theory of multilevel group selection in support of an inherent genetic "<u>altruism</u>" in opposition to the original sin exclusivity for human nature.^[70]

20th-century liberal theology

<u>Liberal theologians</u> in the early 20th century described human nature as "basically good", needing only "proper training and education". But the above examples document the return to a "more realistic view" of human nature "as basically sinful and <u>self-centered</u>". Human nature needs "to be regenerated ... to be able to live the unselfish life".^[71]

Regenerated human nature

According to the Bible, "Adam's disobedience corrupted human nature" but God mercifully "regenerates".^[72] "Regeneration is a radical change" that involves a "renewal of our [human] nature".^[73] Thus, to counter original sin, Christianity purposes "a complete transformation of individuals" by Christ.^[74]

The goal of Christ's coming is that fallen humanity might be "conformed to or transformed into the image of Christ who is the perfect image of God", as in <u>2 Corinthians 4</u>:4.^[75] The <u>New Testament</u> makes clear the "universal need" for regeneration.^[76] A sampling of biblical portrayals of regenerating human nature and the behavioral results follow.

- being "transformed by the renewing of your minds" (Romans 12:2)^[77]
- being transformed from one's "old self" (or "old man") into a "new self" (or "new man") (Colossians 3:9–10)^[78]
- being transformed from people who "hate others" and "are hard to get along with" and who are "jealous, angry, and selfish" to people who are "loving, happy, peaceful, patient, kind, good, faithful, gentle, and self-controlled" (Galatians 5:20–23)^[79]
- being transformed from looking "to your own interests" to looking "to the interests of others" (Philippians 2:4)^[80]

Early modern philosophy

Although this new realism applied to the study of human life from the beginning—for example, in <u>Machiavelli</u>'s works—the definitive argument for the final rejection of Aristotle was associated especially with <u>Francis Bacon</u>. Bacon sometimes wrote as if he accepted the traditional four causes ("It is a correct position that "true knowledge is knowledge by causes." And causes again are not improperly distributed into four kinds: the material, the formal, the efficient, and the final") but he adapted these terms and rejected one of the three:

But of these the final cause rather corrupts than advances the sciences, except such as have to do with human action. The discovery of the formal is despaired of. The efficient and the material (as they are investigated and received, that is, as remote causes, without reference to the latent process leading to the form) are but slight and superficial, and contribute little, if anything, to true and active science. [81]

This line of thinking continued with <u>René Descartes</u>, whose new approach returned philosophy or science to its <u>pre-Socratic</u> focus upon non-human things. <u>Thomas Hobbes</u>, then <u>Giambattista Vico</u>, and <u>David</u> <u>Hume</u> all claimed to be the first to properly use a modern Baconian scientific approach to human things.

Hobbes famously followed Descartes in describing humanity as matter in motion, just like machines. He also very influentially described man's natural state (without science and artifice) as one where life would be "solitary, poor, nasty, brutish and short".^[82] Following him, John Locke's philosophy of empiricism also saw human nature as a <u>tabula rasa</u>. In this view, the mind is at birth a "blank slate" without rules, so data are added, and rules for processing them are formed solely by our sensory experiences.^[83]

Jean-Jacques Rousseau pushed the approach of Hobbes to an extreme and criticized it at the same time. He was a contemporary and acquaintance of Hume, writing before the French Revolution and long before Darwin and Freud. He shocked Western civilization with his Second Discourse by proposing that humans had once been solitary animals, without reason or language or communities, and had developed these things due to accidents of pre-history. (This proposal was also less famously made by Giambattista Vico.) In other words, Rousseau argued that human nature was not only not fixed, but not even approximately fixed compared to what had been assumed before him. Humans are political, and rational, and have language now, but originally they had none of these things.^[84] This in turn implied that living under the management of human reason might not be a happy way to live at all, and perhaps there is no ideal way to live. Rousseau is also unusual in the extent to which he took the approach of Hobbes, asserting that primitive humans were not even naturally social. A civilized human is therefore not only imbalanced and unhappy because of the mismatch between civilized life and human nature, but unlike Hobbes, Rousseau also became well known for the suggestion that primitive humans had been happier, "noble savages".^[85]

Rousseau's conception of human nature has been seen as the origin of many intellectual and political developments of the 19th and 20th centuries.^[86] He was an important influence upon <u>Kant</u>, <u>Hegel</u>, and <u>Marx</u>, and the development of German idealism, <u>historicism</u>, and <u>romanticism</u>.

What human nature did entail, according to Rousseau and the other modernists of the 17th and 18th centuries, were animal-like passions that led humanity to develop language and reasoning, and more complex communities (or communities of any kind, according to Rousseau).

In contrast to Rousseau, David Hume was a critic of the oversimplifying and systematic approach of Hobbes, Rousseau, and some others whereby, for example, all human nature is assumed to be driven by variations of selfishness. Influenced by <u>Hutcheson</u> and <u>Shaftesbury</u>, he argued against oversimplification. On the one hand, he accepted that, for many political and economic subjects, people could be assumed to be driven by such simple selfishness, and he also wrote of some of the more social aspects of "human nature" as something which could be destroyed, for example if people did not associate in just societies. On the other hand, he rejected what he called the "paradox of the sceptics", saying that no politician could have invented words like "'honourable' and 'shameful,' 'lovely' and 'odious,' 'noble' and 'despicable'", unless there was not some natural "original constitution of the mind".^[87]

Hume—like Rousseau—was controversial in his own time for his modernist approach, following the example of Bacon and Hobbes, of avoiding consideration of metaphysical explanations for any type of cause and effect. He was accused of being an <u>atheist</u>. He wrote:

We needn't push our researches so far as to ask "Why do we have humanity, i.e. a fellow-feeling with others?" It's enough that we experience this as a force in human nature. Our examination of causes must stop somewhere.^[87]

After Rousseau and Hume, the nature of philosophy and science changed, branching into different disciplines and approaches, and the study of human nature changed accordingly. Rousseau's proposal that human nature is malleable became a major influence upon international revolutionary movements of various kinds, while Hume's approach has been more typical in Anglo-Saxon countries, including the <u>United States</u>.

According to <u>Edouard Machery</u>, the concept of human nature is an outgrowth of <u>folk biology</u> and in particular, the concept of folk essentialism – the tendency of ordinary people to ascribe essences to kinds. Machery argues that while the idea that humans have an "essence" is a very old idea, the idea that all humans have a unified human nature is relatively modern; for a long time, people thought of humans as "us versus them" and thus did not think of human beings as a unified kind. [88]

Contemporary philosophy

The concept of human nature is a source of ongoing debate in contemporary philosophy, specifically within philosophy of biology, a subfield of the philosophy of science. Prominent critics of the concept – David L. <u>Hull,^[89] Michael Ghiselin,^[90] and David Buller;^[91] see also^{[1][2][3]} – argue that human nature is incompatible with modern evolutionary biology. Conversely, defenders of the concept argue that when defined in certain ways, human nature is both scientifically respectable and meaningful.^{[1][2][3][92][93][94]} Therefore, the value and usefulness of the concept depends essentially on how one construes it. This section summarizes the prominent construals of human nature and outlines the key arguments from philosophers on both sides of the debate.</u>

Criticism of the concept of human nature (Hull)

Philosopher of science <u>David L. Hull</u> has influentially argued that there is no such thing as human nature. Hull's criticism is raised against philosophers who conceive human nature as a set of intrinsic <u>phenotypic</u> <u>traits</u> (or <u>characters</u>) that are universal among humans, unique to humans, and definitive of what it is to be a member of the biological species <u>*Homo sapiens*</u>. In particular, Hull argues that such "essential sameness of human beings" is "temporary, contingent and relatively rare" in biology.^[89] He argues that variation, insofar as it is the result of evolution, is an essential feature of all biological species. Moreover, the type of variation which characterizes a certain species in a certain historical moment is "to a large extent accidental"^[89] He writes:^{[89]:3}

Periodically a biological species might be characterized by one or more characters which are both universally distributed among and limited to the organisms belonging to that species, but such states of affairs are temporary, contingent and relatively rare.

Hull reasons that properties universally shared by all members of a certain species are usually also possessed by members of other species, whereas properties exclusively possessed by the members of a certain species are rarely possessed by *all* members of that species. For these reasons, Hull observes that, in contemporary <u>evolutionary taxonomy</u>, belonging to a particular species does not depend on the possession of any specific intrinsic properties. Rather, it depends on standing in the right kind of relations (relations of <u>genealogy</u> or interbreeding, depending on the precise <u>species concept</u> being used) to other members of the species. Consequently, there can be no *intrinsic* properties that define what it is to be a member of the species <u>Homo sapiens</u>. Individual organisms, including humans, are part of a species by virtue of their relations with other members of the same species, not shared intrinsic properties.

According to Hull, the moral significance of his argument lies in its impact on the biologically legitimate basis for the concept of "human rights". While it has long been argued that there is a sound basis for "human rights" in the idea that all human beings are essentially the same, should Hull's criticism work, such a basis – at least on a biological level – would disappear. Nevertheless, Hull does not perceive this to be a fundamental for human rights, because people can choose to continue respecting human rights even without sharing the same human nature.^[89]

Defences of the concept of human nature

Several contemporary philosophers have attempted to defend the notion of human nature against charges that it is incompatible with modern evolutionary biology by proposing alternative interpretations. They claim that the concept of human nature continues to bear relevance in the fields of <u>neuroscience</u> and <u>evolutionary biology</u>. Many have proposed non-essentialist notions. Others have argued that, even if <u>natural selection</u> has shown that any attempt to base species membership on "*intrinsic* essential properties" is untenable, essences can still be "relational" – this would be consistent with the interbreeding, ecological, and <u>phylogenetic</u> species concepts, which are accepted by modern <u>evolutionary biology</u>.^[95] These attempts aim to make natural selection compatible with a certain conception of human nature which is stable across time.

"Nomological" account (Machery)

Philosopher of science <u>Edouard Machery</u> has proposed that the above criticisms only apply to a specific definition (or "notion") of human nature, and not to "human nature in general".^[93] He distinguishes between two different notions:

 An <u>essentialist</u> notion of human nature – "Human nature is the set of properties that are separately necessary and jointly sufficient for being a human." These properties are also usually considered as *distinctive* of human beings. They are also intrinsic to humans and inherent to their essence.^[93] A <u>nomological</u> notion of human nature – "Human nature is the set of properties that humans tend to possess as a result of the evolution of their species."^[93]

Machery clarifies that, to count as being "a result of evolution", a property must have an <u>ultimate</u> <u>explanation</u> in <u>Ernst Mayr</u>'s sense. It must be possible to explain the trait as the product of evolutionary processes. Importantly, properties can count as part of human nature in the nomological sense even if they are not universal among humans and not unique to humans. In other words, nomological properties need not be necessary nor sufficient for being human. Instead, it is enough that these properties are shared by most humans, as a result of the evolution of their species – they "need to be typical".^[96] Therefore, human nature in the nomological sense does not define what it is to be a member of the species <u>Homo sapiens</u>. Examples of properties that count as parts of human nature on the nomological definition include: being <u>bipedal</u>, having the capacity to speak, having a tendency towards <u>biparental</u> investment in children, having fear reactions to unexpected noises.^[93] Finally, since they are the product of evolution, properties belonging to the nomological notion of human nature are not fixed, but they can change over time.^[96]

Machery agrees with biologists and others philosophers of biology that the essentialist notion of human nature is incompatible with modern evolutionary biology: we cannot explain membership in the human species by means of a definition or a set of properties. However, he maintains that this does not mean humans have no nature, because we can accept the nomological notion which is not a definitional notion. Therefore, we should think of human nature as the many properties humans have in common as a result of evolution.^[93]

Machery argues that notions of human nature can help explain why that, while cultures are very diverse, there are also many constants across cultures. For Machery, most forms of cultural diversity are in fact diversity on a common theme; for example, Machery observes that the concept of a kinship system is common across cultures but the exact form it takes and the specifics vary between cultures.^[97]

Problems with the nomological account

Machery also highlights potential drawbacks of the nomological account.^[93] One is that the nomological notion is a watered-down notion that cannot perform many of the roles that the concept of human nature is expected to perform in science and philosophy. The properties endowed upon humans by the nomological account do not distinguish humans from other animals or define what it is to be human. Machery pre-empts this objection by claiming that the nomological concept of human nature still fulfils many roles. He highlights the importance of a conception which picks out what humans share in common which can be used to make scientific, psychological generalizations about human-beings.^[96] One advantage of such a conception is that it gives an idea of the traits displayed by the majority of human beings which can be explained in evolutionary terms.

Another potential drawback is that the nomological account of human nature threatens to lead to the absurd conclusion that all properties of humans are parts of human nature. According to the nomological account, a trait is only part of human nature if it is a result of evolution. However, there is a sense in which all human traits are results of evolution. For example, the belief that water is wet is shared by all humans. However, this belief is only possible because we have, for example, evolved a sense of touch. It is difficult to separate traits which are the result of evolution and those which are not. Machery claims the distinction between proximate and ultimate explanation can do the work here: only some human traits can be given an ultimate explanation, he argues.

According to the philosopher Richard Samuels^[94] the account of human nature is expected to fulfill the five following roles:

- an organizing function that demarks a territory of scientific inquiry
- a descriptive function that is traditionally understood as specifying properties that are universal across and unique to human being
- a causal explanatory function that offers causal explanation for occurring human behaviours and features
- a taxonomic function that specifies possessing human nature as a necessary and sufficient criterion for belonging to the human species
- **Invariances** that assume the understanding that human nature is to some degree fixed, invariable or at least hard to change and stable across time.

Samuels objects that Machery's nomological account fails to deliver on the causal explanatory function, because it claims that superficial and co-varying properties *are* the essence of human nature. Thus, human nature cannot be the underlying *cause* of these properties and accordingly cannot fulfill its causal explanatory role.

Philosopher Grant Ramsey also rejects Machery's nomological account. For him, defining human nature with respect to only universal traits fails to capture many important human characteristics.^[92] Ramsey quotes the anthropologist <u>Clifford Geertz</u>, who claims that "the notion that unless a cultural phenomenon is empirically universal it cannot reflect anything about the nature of man is about as logical as the notion that because <u>sickle-cell anemia</u> is, fortunately, not universal, it cannot tell us anything about human genetic processes. It is not whether phenomena are empirically common that is critical in science...but whether they can be made to reveal the enduring natural processes that underly them."^[98] Following Geertz, Ramsey holds that the study of human nature should not rely exclusively on universal or near-universal traits. There are many idiosyncratic and particular traits of scientific interest. Machery's account of human nature cannot give an account to such differences between men and women as the nomological account only picks out the common features within a species. In this light, the female menstrual cycle which is a biologically an essential and useful feature cannot be included in a nomological account of human nature.^[92]

Ramsey^[92] also objects that Machery uncritically adopts the <u>innate-acquired dichotomy</u>, distinguishing between human properties due to enculturation and those due to evolution. Ramsey objects that human properties do not just fall in one of the two categories, writing that "any organismic property is going to be due to both heritable features of the organism as well as the particular environmental features the organism happens to encounter during its life."^[92]

"Causal essentialist" account (Samuels)

Richard Samuels, in an article titled "Science and Human Nature", proposes a causal essentialist view that "human nature should be identified with a suite of mechanisms, processes, and structures that causally explain many of the more superficial properties and regularities reliably associated with humanity."^[94] This view is "causal" because the mechanisms <u>causally explain</u> the superficial properties reliably associated with humanity by referencing the underlying causal structures the properties belong to. For example, it is true that the belief that water is wet is shared by all humans yet it is not in itself a significant aspect of human nature. Instead, the psychological process that lead us to assign the word "wetness" to water is a universal trait shared by all human beings. In this respect, the superficial belief that water is wet reveals an important causal psychological process which is widely shared by most human beings. The explanation is also

"<u>essentialist</u>" because there is a core set of empirically discoverable cognitive mechanism that count as part of the human nature. According to Samuels, his view avoids the standard biological objections to human nature essentialism.

Samuels argues that the theoretical roles of human nature includes: organizing role, descriptive functions, causal explanatory functions, taxonomic functions, and invariances.

In comparison with traditional essentialist view, the "causal essentialist" view does not accomplish the taxonomic role of human nature (the role of defining what it is to be human). He claims however, that no conception could achieve this, as the fulfillment of the role would not survive evolutionary biologists' objections (articulated above by in "Criticisms of the concept of human nature"). In comparison with Machery's nomological conception, Samuels wants to restore the causal-explanatory function of human nature. He defines the essence of human nature as causal mechanisms and not as surface-level properties. For instance, on this view, linguistic behaviour is not part of human nature, but the cognitive mechanisms underpinning linguistic behaviour might count as part of human nature.

"Life-history trait cluster" account (Ramsey)

Grant Ramsey proposes an alternative account of human nature, which he names the "life-history trait cluster" account.^[92] This view stems from the recognition that the combination of a specific genetic constitution with a specific environment is not sufficient to determine how a life will go, i.e., whether one is rich, poor, dies old, dies young, etc. Many 'life histories' are possible for a given individual, each populated by a great number of traits. Ramsey defines his conception of human nature in reference to the "pattern of trait clusters within the totality of extant possible life-histories".^[92] In other words, there are certain life histories, i.e., possible routes one's life can take, for example: being rich, being a PhD student, or getting ill. Ramsey underlines the patterns behind these possible routes by delving into the causes of these life histories. For example, one can make the following claim: "Humans sweat when they get exhausted" or one can also propose neurological claims such as "Humans secrete Adrenaline when they are in flight-fight mode." This approach enables Ramsey to go beyond the superficial appearances and understand the similarities/differences between individuals in a deeper level which refers to the causal mechanisms (processes, structures and constraints etc.) which lie beneath them. Once we list all the possible life-histories of an individual, we can find these causal patterns and add them together to form the basis of individual nature.

Ramsey's next argumentative manoeuvre is to point out that traits are not randomly scattered across potential life histories; there are patterns. "These patterns" he states "provide the basis for the notion of individual and human nature".^{[92]:987} While one's 'individual nature' consists of the pattern of trait clusters distributed across that individual's set of possible life histories, Human Nature, Ramsey defines as "the pattern of trait clusters within the totality of extant human possible life histories".^{[92]:987} Thus, if we were to combine all possible life histories of all individuals in existence we would have access to the trait distribution patterns that constitute human nature.

Trait patterns, on Ramsey's account, can be captured in the form of <u>conditional statements</u>, such as "if female, you develop <u>ovaries</u>" or "if male, you develop <u>testes</u>." These statements will not be true of all humans. Ramsey contends that these statements capture part of human nature if they have a good balance of *pervasiveness* (many people satisfy the <u>antecedent</u> of the conditional statement), and *robustness* (many people who satisfy the antecedent go on to satisfy the <u>consequent</u>).

Human nature and human enhancement

The contemporary debate between so-called "bioconservatives" and "transhumanists" is directly related to the concept of human nature: transhumanists argue that "current human nature is improvable through the use of applied science and other rational methods."^[99] Bioconservatives believe that the costs outweigh the benefits: in particular, they present their position as a defense of human nature which, according to them, is threatened by human enhancement technologies. Although this debate is mainly of an ethical kind, it is deeply rooted in the different interpretations of human nature, human freedom, and human dignity (which, according to bioconservatives, is specific to human beings, while transhumanists think that it can be possessed also by posthumans). As explained by <u>Allen Buchanan</u>,^[100] the literature against human enhancement is characterized by two main concerns: that "enhancement may alter or destroy human nature" and that "if enhancement alters or destroys human nature, this will undercut our ability to ascertain the good," as "the good is determined by our nature."^[100]

Bioconservatives include Jürgen Habermas,^[101] Leon Kass,^[102] Francis Fukuyama,^[103] and Bill <u>McKibben</u>.^[99] Some of the reasons why they oppose (certain forms of) human enhancement technology are to be found in the worry that such technology would be "dehumanizing" (as they would undermine the human dignity intrinsically built in our human nature). For instance, they fear that becoming "<u>posthumans</u>" could pose a threat to "ordinary" humans^[104] or be harmful to posthumans themselves.^{[105][99]}

Jürgen Habermas makes the argument against the specific case of genetic modification of unborn children by their parents, referred to as "eugenic programming" by Habermas. His argument is two-folded: The most immediate threat is on the "ethical freedom" of programmed individuals, and the subsequent threat is on the viability of liberal democracy. Reasoning of the former can be formulated as the following: Genetic programming of desirable traits, capabilities and dispositions puts restrictions on a person's freedom to choose a life of his own, to be the *sole author* of his existence. A genetically programmed child may feel *alienated* from his identity, which is now irreversibly co-written by human agents other than himself. This feeling of alienation, resulted from "contingency of a life's beginning that is not at [one's] disposal," makes it difficult for genetically-modified persons to perceive themselves as moral agents who can make ethical judgement freely and independently – that is, without any substantial or definitive interference from another agent. Habermas proposes a second threat – the undermining power of genetic programming on the viability of democracy. The basis of liberal democracy, Habermas rightfully claims, is the symmetrical and independent mutual recognition among free, equal and autonomous persons. Genetic programming jeopardizes this condition by irreversibly subjecting children to permanent dependence on their parents, thus depriving them of their *perceived* ability to be full citizens of the legal community. This fundamental modification to human relationship erodes the foundation of liberal democracy and puts its viability in danger.[106]

The most famous proponent of transhumanism, on the other hand, is <u>Oxford</u> Swedish philosopher <u>Nick</u> <u>Bostrom</u>. According to Bostrom, "human enhancement technologies should be made widely available,"^[99] as they would offer enormous potential for improving the lives of human beings, without "dehumanizing"

them: for instance, improving their intellectual and physical capacities, or protecting them from suffering, illnesses, aging, and physical and cognitive shortcomings.^[99] In response to bioconservatives, transhumanists argue that expanding a person's "capability set" would increase her freedom of choice, rather than reducing it.^[99]

<u>Allen Buchanan</u> has questioned the relevance of the concept of human nature to this debate. In "Human Nature and Enhancement", he argued that good but also bad characteristics are part of human nature, and that changing the "bad" ones does not necessarily imply that the "good" ones will be affected. Moreover, Buchanan argued that the way we evaluate the good is independent of human nature: in fact, we can "make coherent judgements about the defective aspects of human nature, and if those defects were readied this need not affect our ability to judge what is good".^[100] Buchanan's conclusion is that the debate on enhancement of human beings would be more fruitful if it was conducted without appealing to the concept of human nature.^[100]

<u>Tim Lewens</u> presented a similar position: since the only notions of human nature which are compatible with biology offer "no ethical guidance in debates over enhancement", we should set the concept of human nature aside when debating about enhancement. On the other hand, "folk", neo-Aristotelian conceptions of human nature seem to have normative implications, but they have no basis in scientific research.^[107] Grant Ramsey replied to these claims, arguing that his "life-history trait cluster" account allows the concept of human nature "to inform questions of human enhancement".^[108]

Appeals to nature often fall foul of the <u>naturalistic fallacy</u>, whereby certain capacities or traits are considered morally 'good' in virtue of their *naturalness*. The fallacy was initially introduced by <u>G. E. Moore</u> in 1903, who challenged philosopher's attempts to define *good* reductively, in terms of natural properties (such as *desirable*). Reliance on 'the natural' as a justification for resisting enhancement is criticised on several grounds by transhumanists, against the bioconservative motivation to preserve or protect 'human nature'.

For example, Nick Bostrom asserts "had Mother Nature been a real parent, she would have been in jail for child abuse and murder"^[109] thus not worthy of unqualified protection. Similarly, <u>Arthur Caplan</u> opposes naturalistic objections to <u>life extension</u> enhancements, by claiming that:^[110]

The explanation of why ageing occurs has many of the attributes of a stochastic or chance phenomenon. And this makes ageing unnatural and in no way an intrinsic part of human nature. As such, there is no reason why it is intrinsically wrong to try to reverse or cure ageing.

Scientific understanding

Science writer and journalist <u>Matt Ridley</u> argued that understanding human nature, and its evolution over time, requires "understanding how human sexuality evolved."^[111]

Instinctual behaviour

<u>Instinctual</u> behaviour, an inherent inclination towards a particular complex behaviour, has been observed in humans. <u>Emotions</u> such as <u>fear</u> are part of human nature (see <u>Fear § Innate fear</u> for example). However they are also known to have been malleable and not fixed (see <u>neuroplasticity</u> and <u>Fear § Inability to experience</u> <u>fear</u>).

Congenital <u>fear</u> of snakes and spiders was found in six-month-old babies.^[112] <u>Infant cry</u> is a manifestation of instinct. The infant cannot otherwise protect itself for survival during its long period of maturation. The <u>maternal instinct</u>, manifest particularly in response to the infant cry, has long been respected as one of the most powerful. Its mechanism has been partly elucidated by observations with functional MRI of the mother's brain.^[113]

The <u>herd instinct</u> is found in human children and <u>chimpanzee</u> cubs, but is apparently absent in young orangutans. [114]

<u>Squeamishness</u> and <u>disgust</u> in humans is an instinct developed during evolution to protect the body and avoid infection by various diseases.^[115]

Socioeconomic context

The socioeconomic environment of humans are a context which affect their <u>brain development</u>.^[116] It has been argued that *H. sapiens* is unsustainable by nature – that <u>unsustainability</u> is an inevitable emergent property of his unaltered nature.^[117] It has also been argued that human nature is not necessarily resulting in unsustainability but is embedded in and affected by a socioeconomic system that is not having an inevitable structure^[118] – that the contemporary socioeconomic macrosystem affects human activities.^[119] A paper published in 1997 concluded that humanity suffer consequences of a "poor fit" between inherited natures and "many of the constructed environments in organizational society".^[120] Designing a "<u>cultural narrative</u>" explicitly for living on a finite planet may be suitable for overriding "outdated" innate tendencies.^[117]

Human nature – which some have argued to vary to some extent per individual and in time, not be static and, at least in the future, to some extent be purposely alterable^[121] – is one of the factors that shape which, how and when human activities are conducted. The contemporary socioeconomic and collective decisionmaking mechanisms are structures that may affect the expression of human nature – for instance, innate tendencies to seek survival, well-being, respect and status that some consider fundamental to humans^[122] may result in varying product-designs, types of work, <u>public infrastructure</u>-designs and the distribution and prevalence of each. As with the <u>nature versus nurture</u> debate, which is concerned whether – or to which degrees – human behavior is determined by the environment or by a person's genes, scientific research is inconclusive about the degree to which human nature is shaped by and manageable by <u>systemic structures</u> as well as about how and to which degrees these structures can and should be purposely altered swiftly globally.

See also

- Aggressionism
- Amity-enmity complex
- Common sense
- Cultural universal
- Cynicism
- Dehumanization
- Diathesis-stress model
- Differential susceptibility hypothesis
- Emotion

- Homo sapiens
- Human condition
- Humanism
- Instinct § In humans
- Nature
- Norm (philosophy)
- Norm (sociology)
- Normality (behavior)
- Psychology

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