

Ervin.

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L18

14. Any animal reacts to life-threatening attack.
with flight - or with aggression & violence - fight.
pattern of self preservation.
the brain always acts as a unit.

mechanism that initiates violence are in the deepest most
primitive center of the vertebrate brain = the brain stem.

mechanism for controlling violence are situated in the
older & deeper part of the large brain = cerebrum.

the
older part of large
brain =

limbic system

(developed about 400 million years ago)

16 | violent behavior can be governed most directly by limbic brain.

↓
limbic brain = { cingulate, hippocampus, thalamus, hypothalamus } nuclei

and the more complex masses of the
basal ganglia
midbrain and amygdala

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24 emotional brain:

"limbic brain (system),

cingulum

hippocampus

thalamus & hypothalamus inc. nuclei

basal ganglia

mid brain

amygdala.

27.

amygdala and hippocampus particularly sensitive
response to changes in the environment: i.e. arrival
of an animal or experimenter ^{or} initiates a
flurry of electrical activity in these brain structures,
this disappears as soon as the animal gets used to
the situation. [i.e. problem of acclimatization!]

"This electric activity coincides in time with freezing or
orienting movements that prepare the animal for
fight or flight. Whether there is a detectable
change of electrical activity during any final
act of attack or retreat has not been experimentally
determined. In animals with normal brains, the
limited evidence available would suggest that there is
not a unique change."



28. Decorticated animal remain affectively equal (fearful or aggressive). But it react with ferocity & is much painful to hearing stimuli, because of lack of cortical control of.

28. When temporal lobes removed (part of limbic system + ^{parts} neocortex) animal become placid or unreactive.

29. Especially amygdala destruction will cause a predatory animal. *(von the medial nucleus)*

29. Destruction of small areas of the hypothalamus in cats & rats, produces permanently ferocious animal. - maybe \rightarrow persistent amygdala excitement. Neurosurgeons have long removed areas of amygdala & best essential behavior

30. stimulation of site areas of limbic brain - leads cat to preparation for attack or flight.

["flight-instant" - need for control.

These areas are: amygdala, middle of hypothalamus, the connections between them as the portion of the midbrain to see the hypothal. is connected.

31. If the site of the hypothalamus rather than the middle is stimulated, the cat behaves differently - it gives reactions are closer to hunting behavior than to defensive behavior.



31/ Summary:

defensible neural system that organizes effective and directed attack behavior - system links & behavior of ^{specific} limbic brain. No system can be activated by events within the environment or artificial stimulation of the limbic brain. - removal of specific limbic structures leads to predictable fight & flight reactions.

- machinery for attack behavior not identical with attack & overlapping with predatory behavior in low animals like birds & hunting.

32

limbic brain system is called on & contribute to a wide spectrum of human as other mammalian actions - feelings.

Keeping impulses at bay, does not mean the brain never is a pyromaniac.

in the well ordered brain the mechanisms of violence, but they need never be out of control

33

if they are either disease or neocortex aggression

35. vicious intraspecific attack of rats vs. non-agress. behavior of predators.

35/6 not mostly as apes & the intraspecies violence.

37. no internal checks.

11 against thesis of aggressive instinct

14 " failure to control develop cerebral control

[Le Man by cerebral control instead of instinctive control / falls idea of thin cerebral control & affect:]

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58. Uncontrolled violent behavior one of the symptoms of
Brain Damage.

59. A series of checks and balances exist in both parts of the
brain, so that the violence associated with the fight or flight
reaction or functions of the limbic system is kept under
control. Damage to the brain structures upset the
balances between the limbic system and neocortex.

61. Epilepsy - Discharges in the inner portion of the
temporal lobe = hippocampus and amygdala
92. electr. stimulation of same area (tip of amygdala)
one can initiate or stop aggressive behavior.

108. "In summary, then, ^{trigger} target areas exist in the
human brain that can, in susceptible individuals,
initiate violence if stimulated with a weak electric
current. We also have evidence that the stimulation of
neighboring points can inhibit violence, if done it
by less initiated stimulation

idea that strong basic mechanisms of suppress
violence in the human are not present or at least
that learned responses not substantiated.

"Learning obviously modifies human behavior, but
the basic mechanisms for the suppression of violence are
present in every human brain to be a normal brain."

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127. Violence, sex crimes, & dangerous driving often occur together.

131. Incidence of epileptic like phenomena in prison group 10x more history of epilepsy than in normal population

132. felony conviction 5

138. Human behavior, violent or peaceful, is always the product of brain - environment interaction. Neither of these two influences can solely determine behavior

143. While it is true that sensible behavior depends on environment, it is also true that the brain functions very poorly in the absence of meaningful environment. In fact, it tends to malfunction under conditions of sensory deprivation or monotony

degenerate & falls in the Wada category of brain. (kitten eyes)

reticular degeneration - inappropriate fight or flight reaction indicating dysfunction of brain stem or limbic brain also environmental deprivation - most of them [monkeys] unable to complete maze criterion.

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143 The brain and central nervous system always act as a unit in responding to the environment with any kind of behavior, including violence... a poorly functioning brain, particularly one with disease or malfunctioning of the limbic system - is much more apt to be hijacked into expressing abnormal behavior by a minimal or inappropriate environmental stimulus than a normal brain.

26. Cannon: Fear, rage, & pain as long as we all primitive experiences still man & beast with love animals. The most powerful that determine the actions of man & beast.

McLean? Fear, flight, fight, &.... most powerful motives.

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6	143 a
12	143 b
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14 a	2149 (Nagel)
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- letter:
- 1) basic agreement.
 - 2) question; 59 content.
 - 3) " 2) Environment (140)
 - 4) flyk - flykk 30
 - 5) Letter Nagel (149)

