

Koestler, The Ghost: the machine.

File 10... a

K 25

272. De Jern Clark: Louis and Le air did not enlarge significantly before beginning of Pleistocene; in middle of Pleistocene (c. 1/2 mill years). development of brain in Pleistocene = explosive evolution.

(Advancement of science, Sept. 1961 Lond.)

273. J. Huxley, The Evolution of Human Nature, p. 434-316...

against view that human cerebral cortex took hold out of animal control.

273 1/2 P. MacLean, didotomy between old and new cortex of the fore-brain & mind.

MacLean, On the evolution, function of limbic as neo-cortical brain, 1948 systems of the brain as their relevance to Psycho-physiological aspects of Medicine No. 7. Medicine vol. XLV, 24, 611-26 6c Edn 1958

274. Well into 18th cent. medical prof. ascribed to Galen's doctrine that thoughts ^{concepts} in brain, feeling emotions & vessels of the body.

275. viscera can talk by p. Haldeman

277. MacLean, old brain, little change for mouse & man.

Koestler

276 James-Lange: emotion nothing but visceral reaction.

" against W. Cannon. (Cannon-Bard theory)
physical basis of emotion is related to the cerebral mechanism in the hyp. thalamus & its forebrain.
regarded bodily changes as expressions rather than causes of emotional feelings.

277 P. Maclean. (Man as his animal brains in
Modern Medicine 95-106. 3.2.64.)

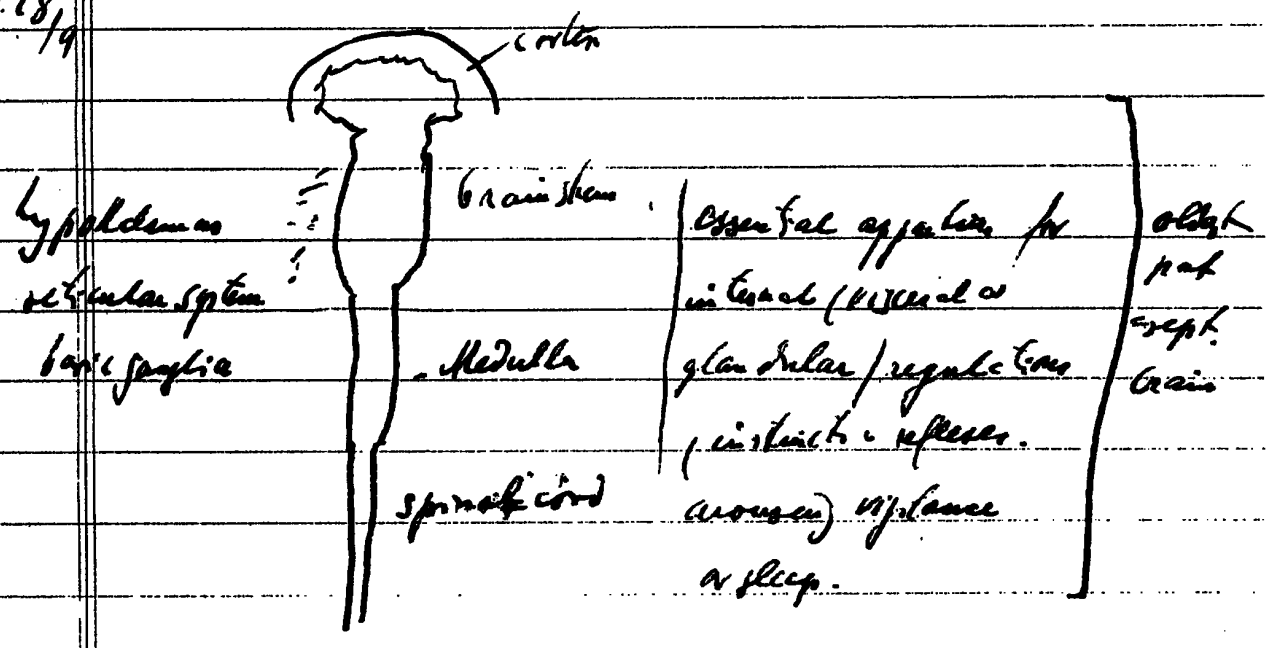
- 3 brains: 1) Reptilian brain
- 2) Lower mammalian brain (emotional basis)
- 3) Neocortex for learning, all approaches & solutions & problems of immediate experience - but no capacity to put it's feelings in words.

Man's limbic system more highly structured than that of lower animals, but its core of emotion, clarity etc are very primitive.

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278/9



cortex begins with reptiles

" = surface layer of cerebral hemispheres but part of of the brain stem. as fold around it like a cloak.

27 | human cortex 1/10 inch thick 10 billion neurons

cortex has 3 basic subdivisions

neocortex	-	neomathia
meso-	-	palaeo- ^{primitive}
meso c.	-	reptilian
archicortex	-	

limbic system = old brain (rept + primate-mammalian)
 neocortical system = new brain

282 | J. Herich; no seat of conscious ness - but apparatus with power to conscious ness - awareness as such is not located in any particular part of mechanism in evolution of Human in lecture 1961

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Koestler.

manually
nav

282 Limbic system In sensory cortex: mouth & anal
genital region on opposite ends. In lower mammals.

As limbic system is bound up or itself
in order to afford the defactory sense some
participation in both oral & anal-genital
functions. (Klüver-Bucy syndrome, infantile
amnesia, P. Spence, New findings)

relevant to the evolution of psychomotor
functions of the brain, J. J. Klerman &
Mental Disease, Vol. 135, 4, Oct. 1962

G.A. Miller, E. Galanter, & K.H. Pribram, Plans
and the Structure of Behavior, NY 1960.

288 Old brain not merely concerned with affect, it also
perceives, remembers & thinks in its own
quasi-independent ways. (primitive, infantile)

289 Neocortex: old brain = many qualities of the
unconscious id. - lacks the help or control
of the neo cortex. Neuman, 1953?

289. irrational help roots in emotion = (strong) will me;
visceral - dominantly old brain. (rational
help for: the problem & manipulation of public
opinion in neo cortex)

290 Neo cortex - detached, rational thought, capable
recognition - but both use only these 2 types of
mentation - in between several ~~more~~ method, recognition,
old - not least most interest



Koestler.

, Not finding relevant to the evolution. 1962

290/ Has clear distinction on behavior self preservation
of *premarita* / species.

a) *Lower* - *Lower* case, *Lower*
half of *h. m. s. sept.*

b) upper case of young, grooming, birds,
friendly social behavior among members

Lower / *Lower*

299 Koestler; error. *Dr. Magnus* man, made 8.11.64

use of his claim. - NO, he made just

as usual use with the poor instrument

& data to be not accumulated. Certainly

Dr. Magnus *Dr. Magnus* *Dr. Magnus*!

J. Huxley, Was as a biological phenomenon. (1)

(Two kinds of animals that make habitually use:

ants - men)

304. All monkey species are peaceful in the wild.

(1962)

306 Lorenz 6th Aggression: points to the Kippama
which predicts an aggression against conspecifics.

Lorenz 4th.

306 identical description in Russell Helixton, London

12.11.64

320 Berta Camp - no moral system.!

Scientific Monthly, 1952

J.

re. Neuropsychol. Elyte.

Koestler assumes that Leo Haygen has ~~did not~~
not make full use of his brain, & he makes
an error.

It seems to operate in three: primitive man
or pre-Leo Haygen man had to use his brain
more, because he had no additional help of
writing, gadgets, institutions. He had to remember
additional knowledge, & to observe all by himself
past activity of the brain, i.e. astronomy, arithmetic,
etc etc - Leo Haygen Einstein. - Growth of
neurons.

Alan Turing: use his brain little. He has little
activity: thinking, seeing machines, is possible,
does not come of thing. His neurons do not
grow.

