



L14

Paul D. MacLean, The paranoid streak
in man, in Beyond Reductionism, The Alpbach
Symposium, New Perspectives in the Life of Sciences,
ed. A. Koestler and J. R. Smythes. Hutchinson
London 1964 (258 - 278)

260. Affects

- 1/ basic, low information of basic body needs (hunger, thirst, breath, defecate)
 - 2/ specific: activation of specific sensory systems, sound, pain.
 - 3/ general: among them emotions like love, anger etc.
- All gen. aff. may be considered in the light of self-preservation or the preservation of the species.

Affects given information of external threats = disquiet of removal - as perception of needs agreeable of

261. paranoid streak: fear of something that cannot be clearly identified
(!)

2./

MacLean

263. reptilian ^{in cerebral cortex}
all mammalian brain. limbic cortex. ↓ expansion - differentiation

new " (= higher mammal neocortex (cultural man (read) writing nothing

26 "Despite their great differences in structure & chemistry, all these must interconnect & function together."

264. The 3 brain = biol. computer each with its own subjective qualities, time-measuring, memory & other functions.

265. MacLean suggested limbic system for limbic cortex & transition structures.

266. Limbic cortex = thinking cap over mammalian head - to emancipate it from inappropriate stereotypes / behavior.

266. ... limb. cortex has similar features in all mammals as is structurally primitive compared with the neocortex. "emotions & function in man as in animals; also in mammal cortex & ^{neocortex} cortex, it has strong connections w. hypothalamus. It plays a basic role in interpreting emotional expressions & viscerosomatic behavior.

MacLean.

3.

266. Hippocampal anomalies disclose Rong-Lamb-Rubio system, a slow discharge of function w/ schizophrenic; as it has been called / old. cell chains.

27. 3 pathways = 3 ramifications that connect the ring of the limbic cortex with the Hypothalamus & other parts of the brain stem.

1) Lower part / (vm) (fal & amygdala) → deep perception.

2) upper . . . septal → feeling, conscience, social behavior, perception, perception of space.

3) Third pathway, three hypences olfactory apparatus.

connects Hypoth. with anterior thalamic nuclei & the cerebral cortex.

it also projects to nuclear dorsal nucleus via projects

to the prefrontal neocortex. (involved in anti-epilepsy,

267 ^{Human} Sept. sq. ^{Statis} - primitive, but third pathway becomes progressively larger in primitive - max. in man.

some evidence that this condition reflects shifting

emphasis for olfactory & visual influences.

(stimul. in 3 pathway, as in the septal circuit, which see. responses in monkey.)

MacLean

267. Psychomotor epilepsy shows that limbic cortex is implicated in the generation of affective states.
269. change in heart rate (or heart of recognition) that obtain solution fastⁿ problem, or surprise meaning v. old friend.
269. Problem of narcissism = persons with like "disembodied spirits" - no personal identification that is happening in the external world - as all means.
- ↳ Lack of contemporaneous integration of somato-visceral functions of the limbic brain with neo cortex use receives information largely to the auditory, visual or somatosensory systems.
269. The possibility ^{likewise} suggests itself that the general affects represent an amalgamated form of internally or externally sensed experience.
269. Feeling out of context.
"It would thus seem that the raw stuff of the affects intrude into the circuitry."
270. maintenance of limbic brain system - information coded in affects as feelings that influence its decisions.
(reph. brain & deriving experience in terms of comparison
neocortex abstract thought.)



5:

MacLean.

270. Lim. Syst. contribute to sense of personal identity.
↳ interacting internally, externally ^{de} sensed experience.

272. Transactions between new & old cortex depend largely on
↳ relations of vertical lines of communication.
The most probable loci for interaction are the reticular
formation & the intralaminar nuclei of the
thalamus. 3 pathways. They: these various vertical
lines of communication, there is probably the machinery
for affect & arousal inputs - for thoughts & deliberate
affects. But Neo cortex interprets the feelings of the
old brain.

275. "domesticating emotions"