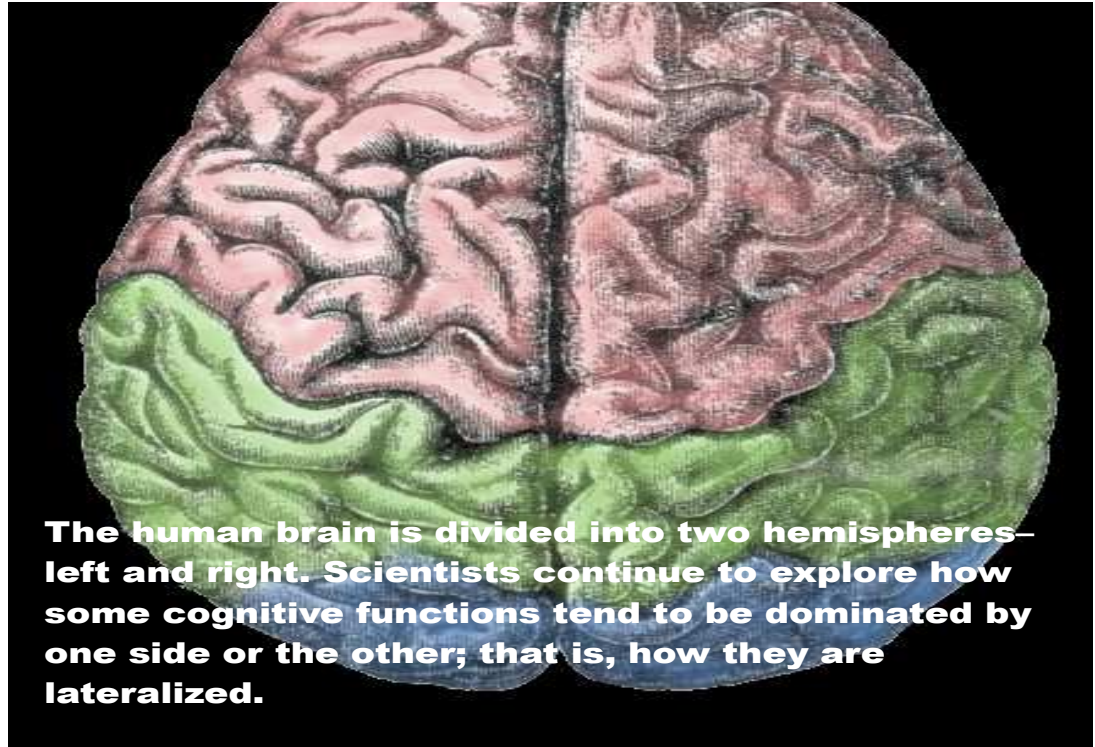


THE HAND AND THE BRAIN

THEIR CONNECTED FUNCTIONS AND IMPACT ON MAN

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Brain function lateralization (localisation) is evident in the phenomena of right- or left-handedness and of right or left ear preference, but a person's preferred hand is not a clear indication of the location of brain function. Although 95% of right-handed people have left-hemisphere dominance for language, only 18.8% of left-handed people have right-hemisphere dominance for language function. Additionally, 19.8% of the left-handed have bilateral language functions *Source : Wikipedia*

In more than 95% of right-handed men, and more than 90% of right-handed

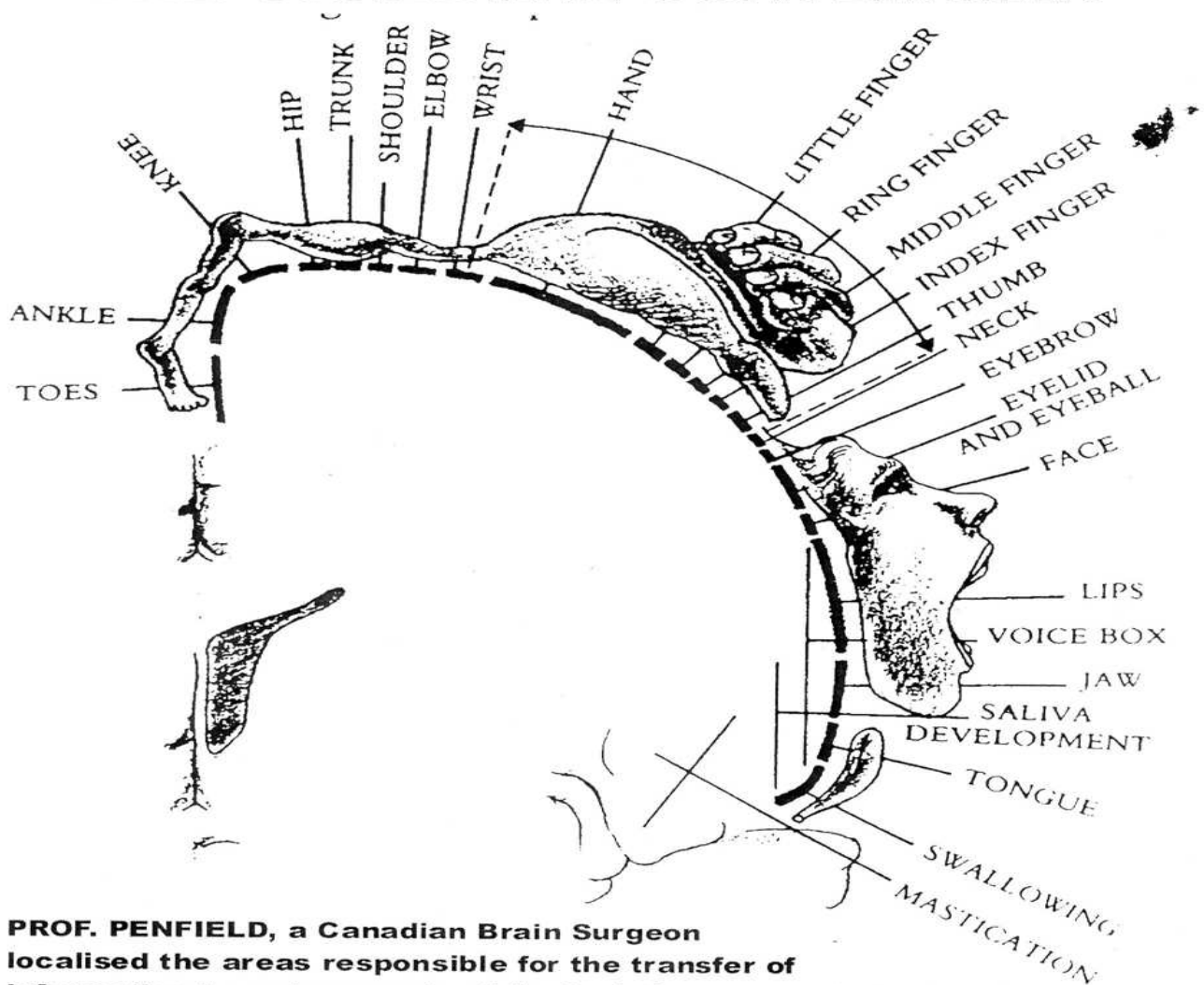
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women, language and speech are subserved by the brain's left hemisphere. In left-handed people, the incidence of left-hemisphere language dominance has been reported as 73% and 61%.

Dr. Wilder Graves Penfield originally thought memory records of past experiences were stored in the cortex. Along with Roberts, they concluded, contrary to received doctrine, that "the left hemisphere is usually dominant for speech, regardless of handedness" but that it is not dominant for speech in every right-handed subject.

THE CEREBRAL CORTEX MAN

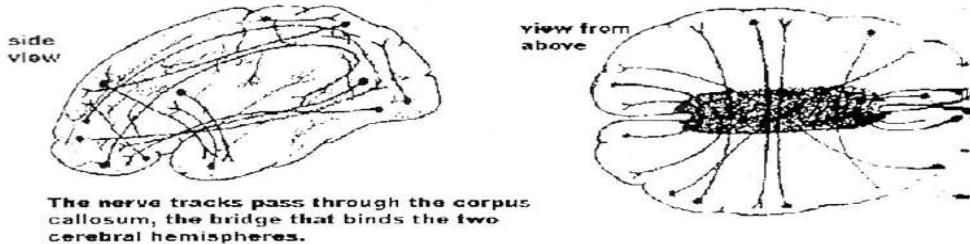


PROF. PENFIELD, a Canadian Brain Surgeon localised the areas responsible for the transfer of information to various parts of the body by means of electrical stimulation of the motor section of the cerebral cortex. It has been found that a large area of this part of the brain is linked to the thumb, the fingers, and the hand.

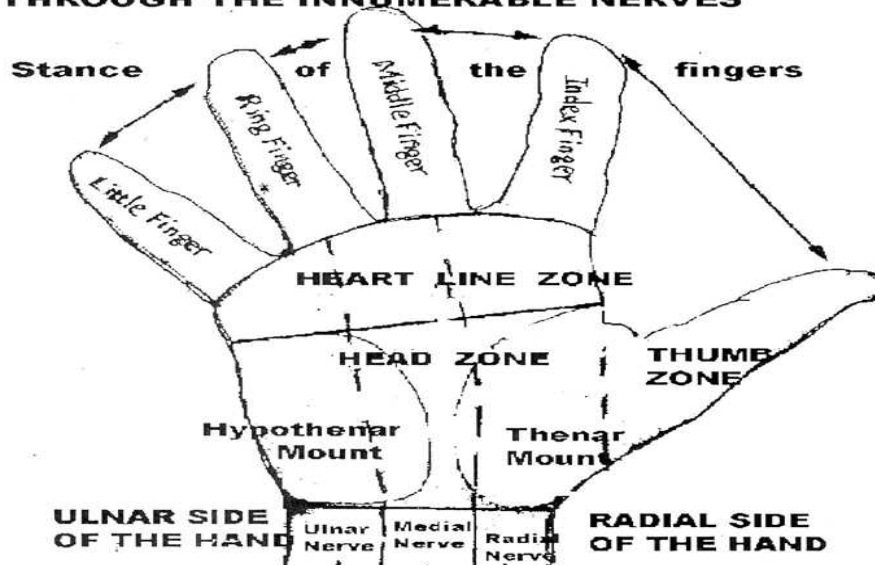
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Corresponding areas in the cerebral hemisphere are linked by nerve tracks.



THE BRAIN IS CONNECTED TO THE HANDS THROUGH THE INNUMERABLE NERVES

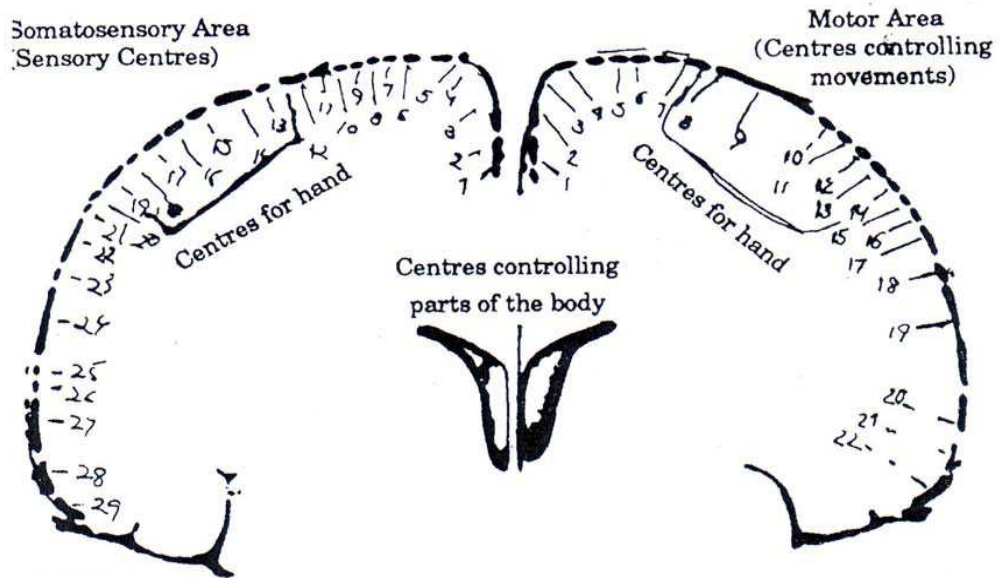


ELECTRICAL IMPULSES FROM THE BRAIN

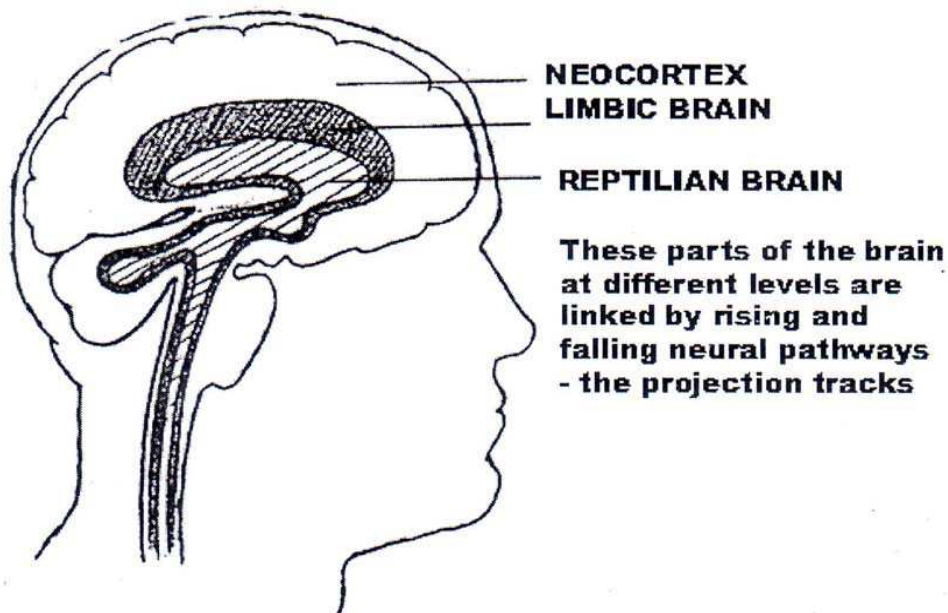
Charles Bonnet (1720 - 1793) says: "Ideas are nothing but vibrations...transmitted through the nerves to the Cerebral Fibres, which penetrates man's body through the fingers, and thereby leaving its markings on the palm, runs up to the brain."

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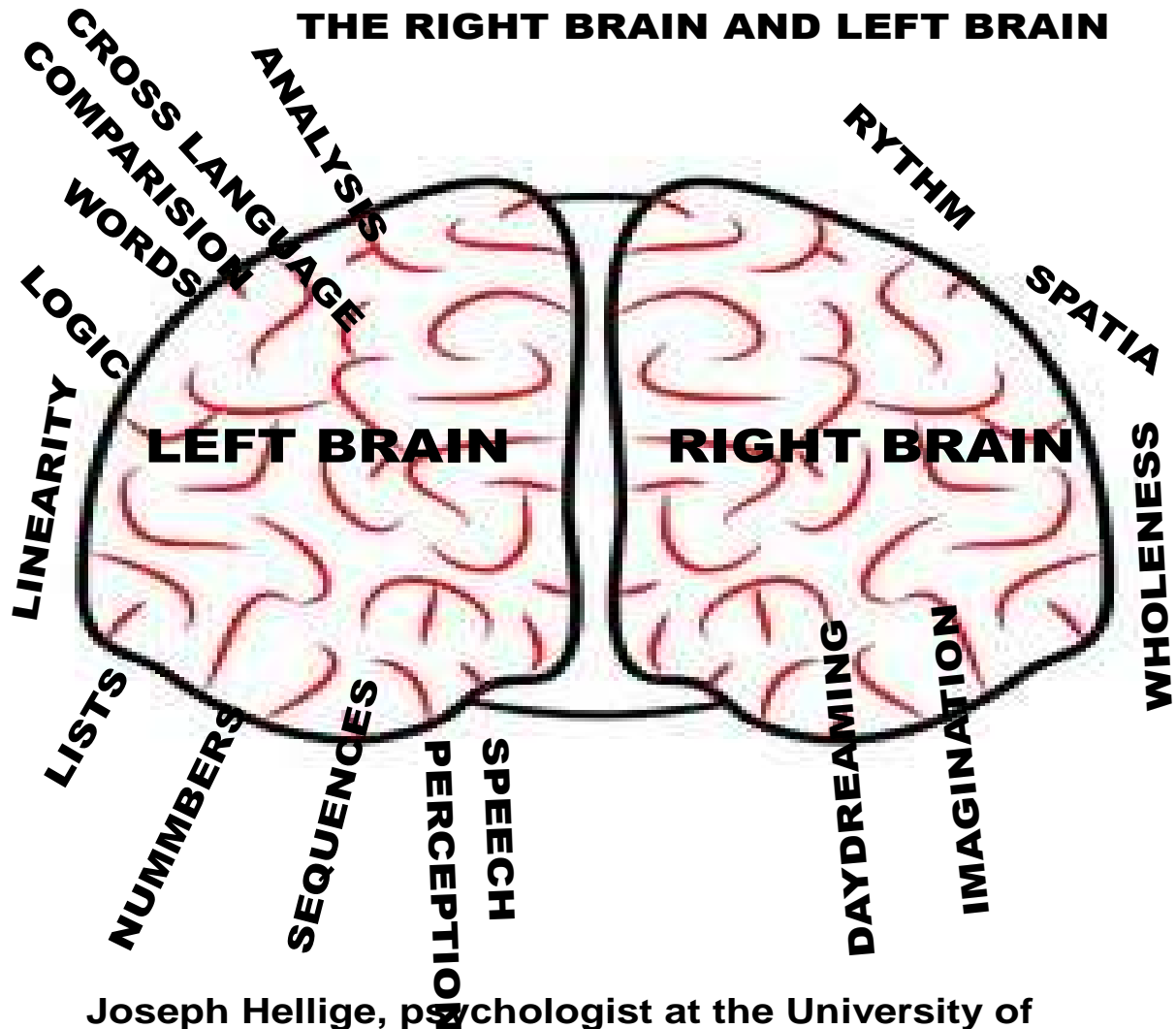


The total centres for the hand in the Somatosensory and Motor Area forms 25 per cent of the brain.



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Joseph Hellige, psychologist at the University of Southern California states:

Areas on the left dealt with the core aspects of speech such as grammar and word production, while aspects such as intonation and emphasis lit up the right side.

Roger W. Sperry states: "The main theme to emerge... is that there appear to be two modes of thinking, verbal and nonverbal, represented rather separately in left and right hemispheres respectively and that our education system, as

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Charlotte Wolff, among various scientific works, Published 'The Human Hand', in 1942, and 'The Hand in Psychological Diagnosis' in 1951 are published by Charlotte Wolf . In these works, she only really acknowledges the writings of Carus and Vaschide as the important precedents to her approach to chirology, although she also refers to the neurological work of Sir Charles Bell and the clinical writings on nails of H Mangin and V Pardo-Castello.

She has statistically verified the association of each half of the palm with the 'conscious' and 'subconscious' mind and confirmed :

- that the fingers are indeed related to both cognition and thought. - - the index finger and the thumb are indicative of self-consciousness and willpower respectively**
- the Major Air (Head) line is indeed one of the most important indicators of mental functioning.**
- how the lines of the hand are more reflections of mental and emotional activity rather than being caused by any mechanical means**
- established that various medical conditions do indeed manifest in the hand. Her investigations of gross endocrinological (terminal) dysfunctions showed how the hand could reveal both physiological and psychological disorder.**

In “The Laws of Scientific Hand Reading” William Benham

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states”

Lines in the hand are the direct reflexes of the subject’s mind, and his mind produces, controls and alters them.

a) Lines change in unison with changes in the mental attitude of a subject.

b) Lines respond to changes in health and constitution when certain events have produced a powerful impression in the subject’s mind.”

Further he explains : Medical Science and psychologists have demonstrated that the human being is possessed by a double consciousness or mind:

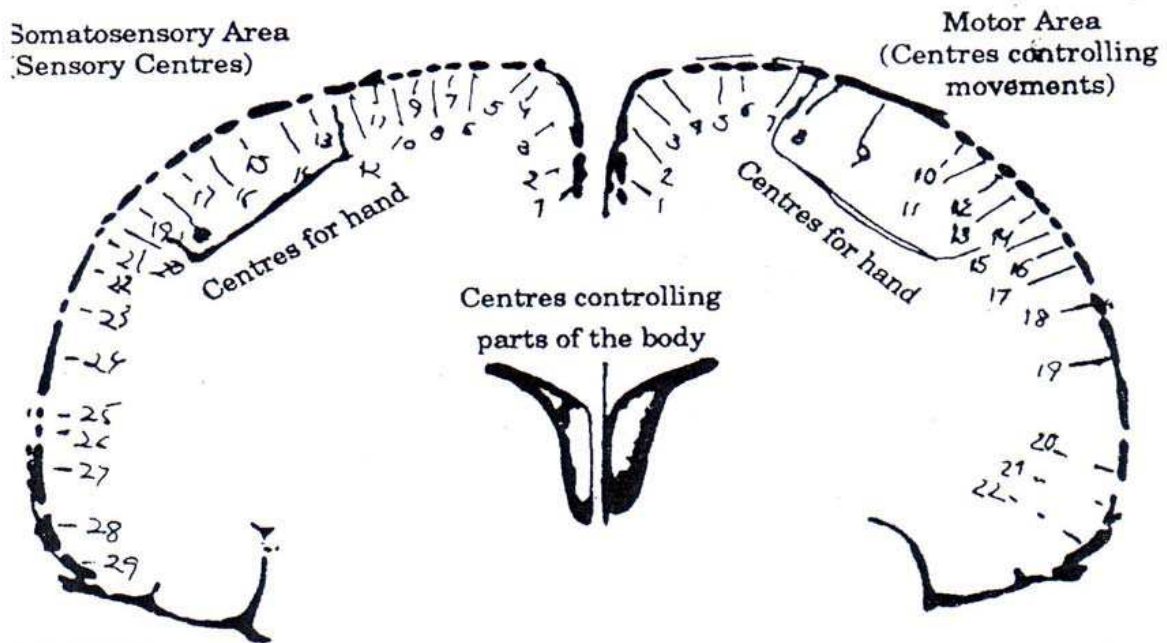
a) One part operating on a material existence, making us conscious of the things we handle or see.

b) The other part operates on the plane of our spiritual existence, and gives us Spiritual consciousness of things we can neither see, touch nor fully explain.”

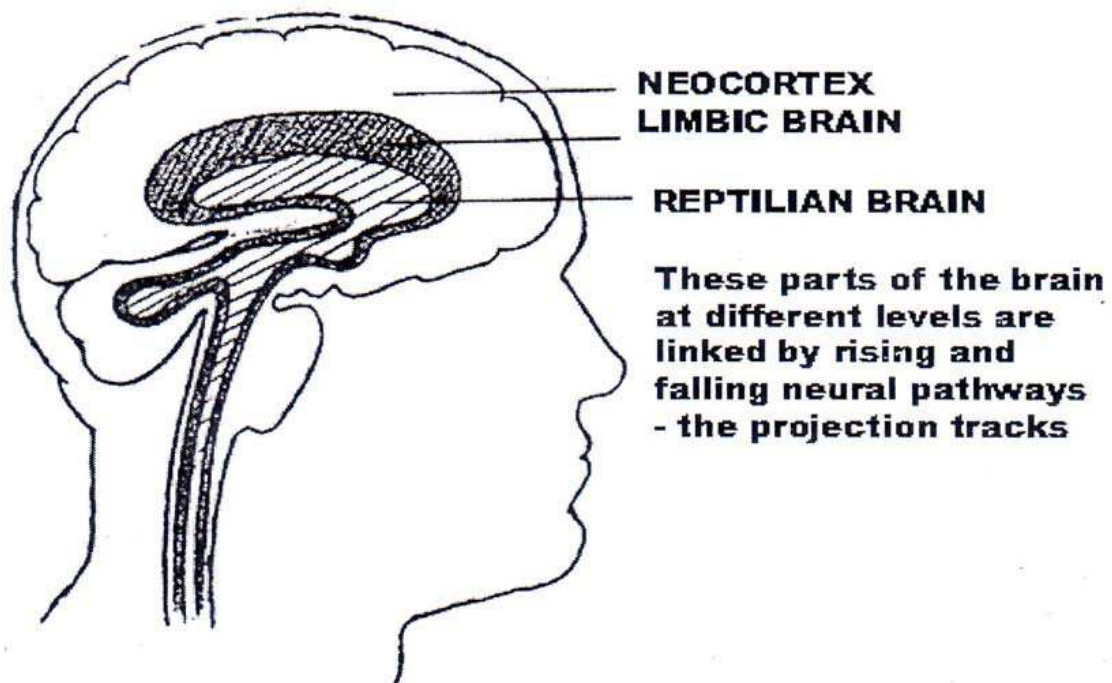
Prof. Dayanand in “All The Secrets of Palmistry for Profession and Popularity” gives the following diagram of the brain and states that the total centres of the hand in the Somatosensory and Motor Area form 25 per cent of the brain.

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The total centres for the hand in the Somatosensory and Motor Area forms 25 per cent of the brain.



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Dr. Joseph Hellige, a psychologist at the University of Southern California says, this picture changed dramatically as soon as brain-scanning experiments began to show that both sides of the brain played an active role in such processes. Rather, it seemed to be processing styles that distinguished the two halves. Under the scanner, language turned out to be represented on both sides of the brain, in matching areas of the cortex. Areas on the left dealt with the core aspects of speech such as grammar and word production, while aspects such as intonation and emphasis lit up the right side. In the same way, the right brain proved to be good at working with a general sense of space, while equivalent areas in the left brain fired when someone thought about objects at particular locations.

Joseph B. Hellige and MM Adamson state in the Book : 'Literality Across the World's Language' that "left hemisphere dominance for speech processing and reading is ubiquitous across the world's languages.

Nobel Laurette (1981), Roger W. Sperry states: "The main theme to emerge... is that there appear to be two modes of thinking, verbal and nonverbal, represented rather separately in left and right hemispheres respectively and that our education system, as well as science in general, tends to neglect the nonverbal form of intellect. What it comes down to is that modern society discriminates against the right hemisphere."

Daz Eden in "Left Brain and Right Brain" :

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“ Our personality can be thought of as a result of the degree to which these left and right brains interact, or, in some cases, do not interact. It is a simplification to identify "left brain" types who are very analytical and orderly. We likewise certainly know of the artistic, unpredictability and creativity of "right brain" types. But each of us draws upon specific sides of our brain for a variety of daily functions, depending on such things as our age, education and life experiences. The choices of which brain is in control of which situations is what forges our personalities and determines our character.”

He states further:

Experiments show that most children rank highly creative (right brain) before entering school. Because our educational systems place a higher value on left brain skills such as mathematics, logic and language than it does on drawing or using our imagination, only ten percent of these same children will rank highly creative by age 7. By the time we are adults, high creativity remains in only 2 percent of the population.

Michael S. Gazzaniga, who has done research for more than 4 decades, in “The Split Brain Revisited” states “By working with these patients (who were seeking relief from epilepsy had undergone surgery that severed the corpus callosum—the superhighway of neurons connecting the halves of the brain), my colleagues Roger W. Sperry, Joseph E. Bogen, P. J. Vogel and I witnessed what happened when the left and the right hemispheres were unable to communicate with each other”.

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He states that the “The left brain is dominant for language and speech. The right excels at visual-motor tasks.

In 1982 Jeffrey Holtzman of Cornell University Medical College led the way again, discovering that, indeed, the harder one half of a split brain worked, the harder it was for the other half to carry out another task simultaneously.

Kevin Trampe of Angel Fire states with regard to research done in this field: “ There is much research to be done scientifically in this area”.

Researchers all over the world have concluded that:

- Left brain dominated persons I skilled, logical, rational, like to read and study, have good memory, prefer well-structured assignments, organized, etc. preferring occupations like lab assistants, judges, bankers, etc.**
- Person have right-dominated brain prefer visual instructions, good at arts and sports, enjoy drawing and dreaming, are spontaneous and unpredictable. The prefer occupations like actors, beauticians, craftsman, athletes, etc.**

Prof. Christopher Jones has also an exhaustive write up of the Hand and and the Brain, stating their attributes and functions. Students who are interested to know more may please follow the link <http://www.cheirology.net/basics/activepassive.htm>.

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