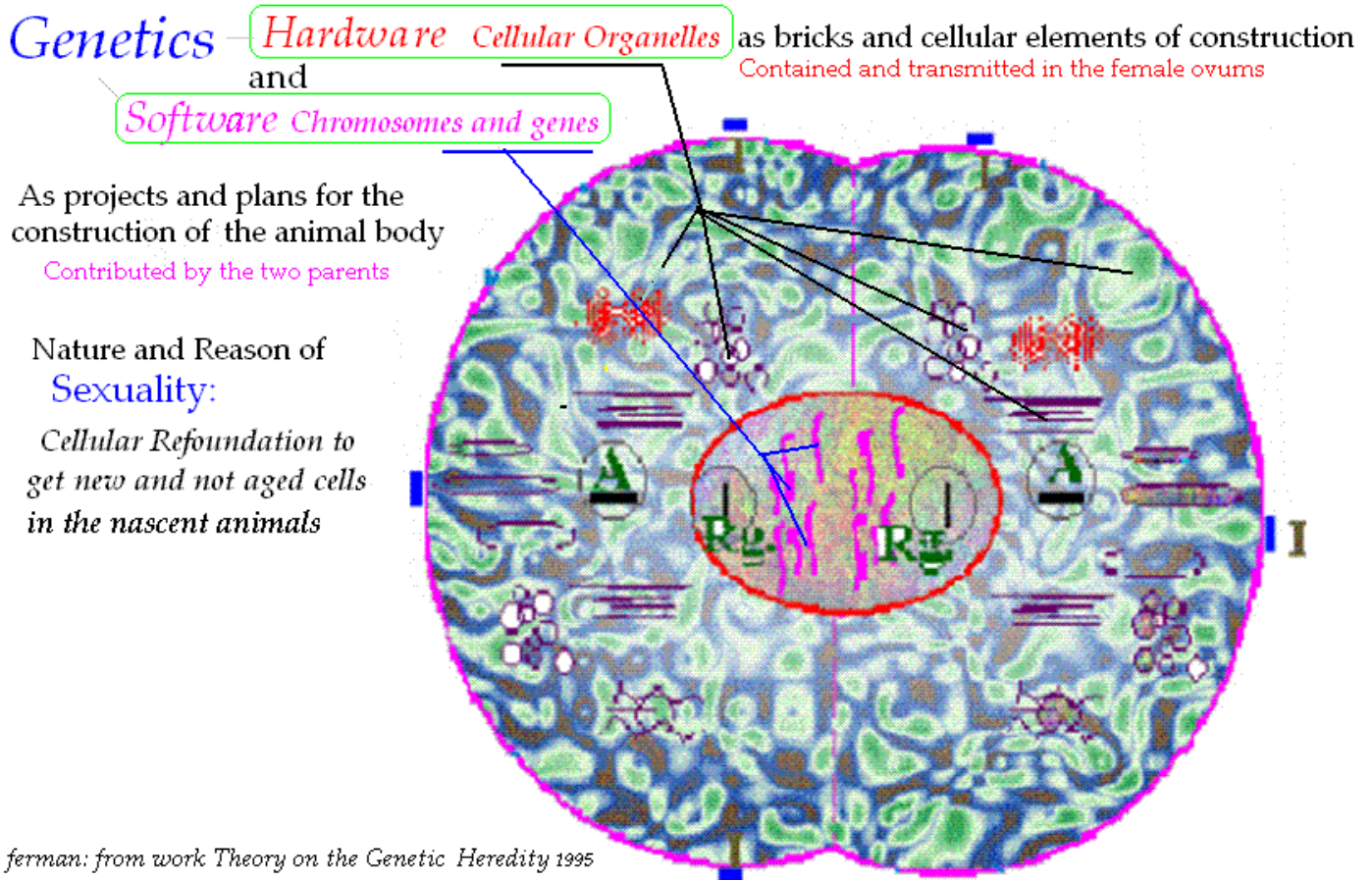


Hardware and software in Genetics

Reason and foundations of sexuality in the multicellular animals.

Of ferman: Fernando Mancebo Rodriguez



For the construction and even maintenance of any complex structure firstly it is necessary some construction materials, which would constitute the hardware (by similarity with computers); and second of a project and construction plans to carry out correctly this construction (intelligent methodology), which would be the construction software.

Logically there are also these fundamentals in the biological structuring and construction, that is, some appropriate primary material elements that will constitute the hardware, and also some projects and plans for the adequate construction that would be the software.

Hardware

In biological genetics the hardware formed by the primary physical elements for the construction of animal bodies is contained inside the cells and they are all the cellular organelles with its own organization, elements and way of working.

That is, the mitochondria, Golgi apparatus, ribosomes, vacuoles, etc., are the physical and biological elements to build the general cells and the specialist ones for each organ of the body, and they form, as we have said, the hardware of biology.

The biological hardware is stored and transmitted by the female ovules.

Software

For its part, the chromosomes and their genes will be in this case the software of biology because they contain the project, plans and the necessary orders to assemble the body of the animal, as well as, the specialization of each organ and its component cells.

The assembly of the animal body is produced by successive emission of specific genes for each body organ (sequential structuring), as well as for the maintenance of the body throughout its life.

The software (chromosomes and genes) are transmitted by both parents, through the sexual connection and following re-founding of genes and chromosomes to get a new and vital body.

Sexuality, nature and reason for being

Sexuality is a great biological invention for multicellular animal, since it gives potential and quality of life to their offspring, since by means of cellular re-foundation, all the genetic software (chromosomes and genes) are restructured again and in this way they are deprived of the possible damages and aging produced during the life of the individuals.

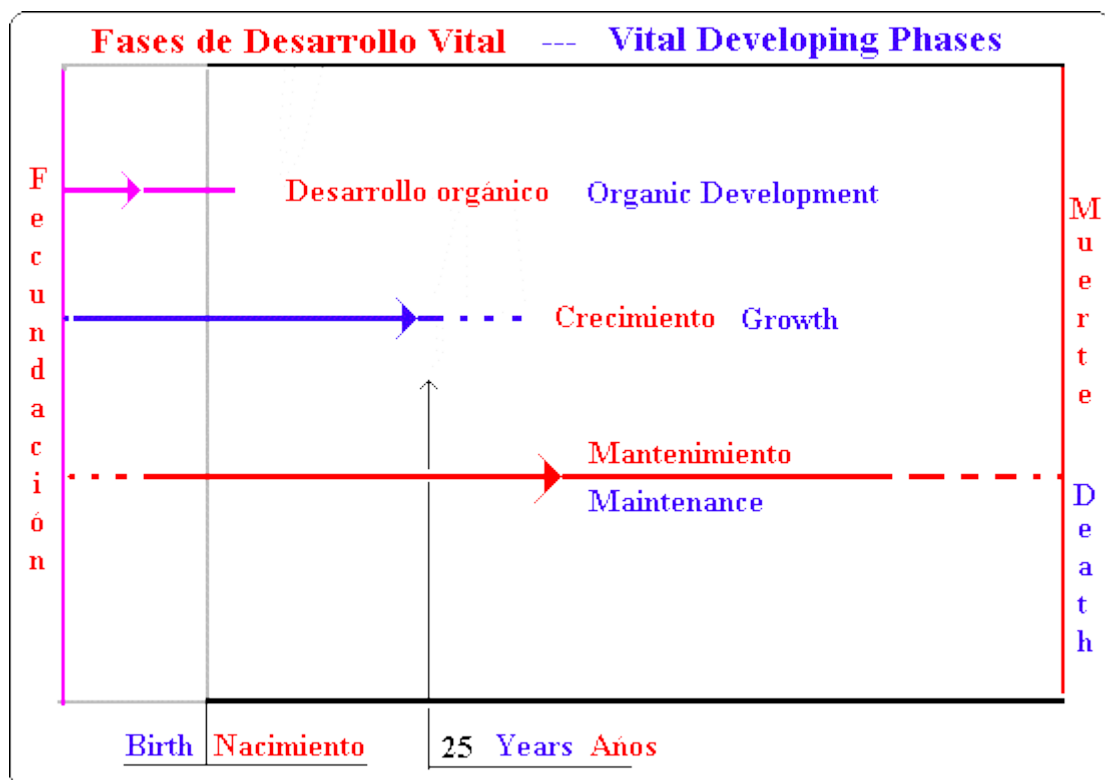
It happens that in the multicellular animals their slowly duplication of the cells is important, and in this circumstance the cells and genetic material are degraded and eroded soon, which does not happen in unicellular.

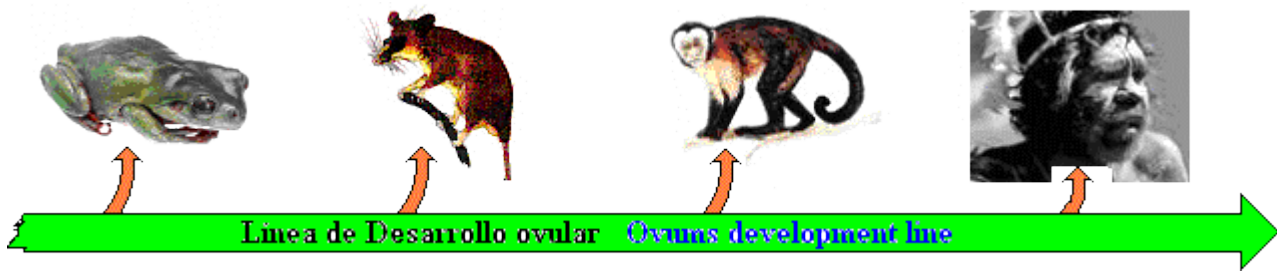
Here is a simple formula of biological vitality, to understand that in multicellular beings the erosion and aging go degrading cells and therefore to build a new being is necessary to re-found them.

EVOLUTIONARY OR GENERATIVE SPEED

$$\text{ORGANIC VITALITY} = \frac{\text{EVOLUTIONARY OR GENERATIVE SPEED}}{\text{EROSION or DEGENERATIVE SPEED}}$$

Other drawings of interest for this topic.





See pages on this study.

[Genetic Heredity.](#)

[Type of Genes T and D](#)