

GLOSSARY OF WORDS AND PHRASES

ancient cell	the original bacteria-like cells; prokaryotes
ATP	a molecule that contains usable energy
chloroplast	the green body (or organelle) in the cell of a plant, responsible for photosynthesis
entropy	in thermodynamics, a measure of disorder
epigenetics	the modern version of Lamarckism
Gaia	Lovelock's name for the self-maintaining and self-organising planet Earth
gene	the unit of heredity
gene expression	the translation of a genome to make an organism
genome	all the genes of a single organism
genus	a group of similar organisms; e.g. dogs belong to the genus <i>Canis</i>
homeostatic	a homeostatic system is one which, if its current steady state is disturbed, tends to adjust in such a way as to restore it
horizontal gene transfer	transfer of a gene from one individual to another of the same generation
Lamarckism	the inheritance of acquired characteristics
mEve	a hypothetical ancestress of all humans
mitochondrion (pl. -ria)	the organelle, once itself an ancient cell, responsible in modern cells for the generation of energy
modern cell	a symbiotic construct of three or four ancient cells; eukaryotes

COOPERATIVE EVOLUTION

organ	a group of tissues aggregated to perform a single function; e.g. the human liver
organelle	by analogy with organ, a structure within the cell that performs a specific function
Protista	single-celled plants and animals
species	the second order name of an individual animal or plant; e.g. dogs, <i>Canis</i> , belong to the species <i>familiaris</i>
symbiosis	the condition where two or more separate individuals are mutually dependent for their continued existence
tangled bank	Darwin's metaphor for the interdependence of living things
tissue	a group of cells each performing the same function within an organism
yAdam	a hypothetical ancestor of all humans

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