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effects of sound fields or mechanical vibrations on living organisms.

- bi o a c tive (bī'o-ăk'tiv). Referring to a substance that can be acted upon by a living organism or by an extract from a living organism.
- bi o as say (bī-ō-as'ā). Determination of the potency or concentration of a compound by its effect upon animals, isolated tissues, or microorganisms, as compared with an analysis of its chemical or physical properties.
- bi o as tro nau tics (bī'o-as-tro-naw'tiks). The study of the effects of space travel and space habitation on living organisms.
- bi·o·a·vail·a·bil·i·ty (bī'ō-ă-vāl'ă-bil'i-tē). The physiological availability of a given amount of a drug, as distinct from its chemical potency; proportion of the administered dose which is absorbed into the bloodstream.
- bi o bur den (bī'o-ber'den). Degree of microbial contamination or microbial load; the number of microorganisms contaminating an object.
- bi·o·cat·a·lyst (bī'o-kat-ă-list). A substance of biologic origin that can catalyze a reaction; e.g., an enzyme.
- bi·o·ce·no·sis (bī-ō-se-nō'sis). An assemblage of species living in a particular biotope. SYN biotic community. [bio- + G. koinos, common
- bi·o·chem·i·cal (bī-ō-kem'i-kăl). Relating to biochemistry.
- bi o chem is try (bī-ō-kem'is-trē). The chemistry of living organisms and of the chemical, molecular, and physical changes occurring therein. syn biologic chemistry, physiologic chemistry.
- biochemorophic (bio-kem-orfik). Denoting the relationship between biologic action and chemical structure, as in food and drugs.
- bi-o-chrome (bī'ō-krōm). syn natural pigment. [bio- + G. chroma, colorl
- bi·o·cid·al (bī-ō-sī'dăl). Destructive of life; particularly pertaining to microorganisms. [bio- + L. caedo, to kill]
- bi·o·cli·ma·tol·o·gy (bī'o-klī-mă-tol'o-jē). The science of the relationship of climatic factors to the distribution, numbers, and types of living organisms; an aspect of ecology.
- biocompatibility (bī'ō-kom-pat-i-bil'i-tē). The relative ability of a material to interact favorably with a biological system. [bio- + compatibility]
- bi o cy ber net ics (bi o -si ber net iks). The science of communication and control within a living organism, particularly on a molecular basis.
- bi o cy tin (bī-ō-sī'tin). ε-N-Biotinyl-L-lysine; biotin condensed through its carboxyl group with the ε-amino group of a lysyl residue in the apoenzymes to which biotin is the coenzyme; the predominant linkage in which biotin is found. syn biotinyllysine.
- bi o cy tin ase (bī-ō-sī'tin-ās). An enzyme in blood that catalyzes the hydrolysis of biocytin to biotin and lysine (or, lysyl residue if the lysine is in a protein).
- bi o de grad a ble (bī'o-dē-grād'a-bl). Denoting a substance that can be chemically degraded or decomposed by natural effectors (e.g., weather, soil bacteria, plants, animals).
- bi-o-de-gra-da-tion. syn biotransformation.
- bi·o·dy·nam·ic (bī'o-dī-nam'ik). Relating to biodynamics.
- bi o dy nam ics (bi'o-di-nam'iks). The science dealing with the force or energy of living matter. [bio- + G. dynamis, force]
- bi·o·e·col·o·gy (bī-ō-ē-kol'ō-jē). SYN ecology.

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- bi o el e ment (bī o-el'e-ment). An element required by a living organism.
- bi-o-en-er-get-ics (bī'o-en-er-jet'iks). 1. The study of energy changes involved in the chemical reactions within living tissue. 2: The study of energy exchanges between living organisms and their environments.
- bi o en gi neer ing (bī'o-en-jin-ēr'ing). SEE biomedical engineering
- bi-o-feed back (bi-o-fed'bak). A training technique that enables an individual to gain some element of voluntary control over autonomic body functions; based on the learning principle that a desired response is learned when received information such as a

recorded increase in skin temperature (feedback) indicates the desired the des specific thought complex or action has produced the desired ph

iological response. EMG b., a form of b. that uses an electromyographic measure EMG b., a form of b. unat uses an encoded to be deconditioned at muscle tension as the physical symptom to be deconditioned, at muscle in the head which are muscle tension as the physical symptom $z_{\text{stability}}$ as tension in the frontalis muscle in the head which $c_{\text{an}} c_{\text{at}}$

- headacnes. bioflavoonoids (bī-ō-flāv'on-oydz). Naturally occurring i vone or coumarin derivatives commonly found in citrus for having the activity of the so-called vitamin P, notably rulin
- biogen e sis (bī-ō-jen'ě-sis). 1. Term given by Huxley to principle that life originates from preexisting life only and ne from nonliving material. SEE spontaneous generation, recapitu tion theory. 2. SYN biosynthesis. [bio- + G. genesis, origin] mitochondrial b., the process by which mitochondria increa their ability to make adenosine triphosphate by synthesizing ad tional respiratory enzyme complexes.
- bi o ge net ic (bī'o-jě-net'ik). Relating to biogenesis.
- bi.o.gen.ic (bi'o-jen-ik). Produced by a living organism,
- biogeochem is try (bī'ō-jē-ō-kem'is-trē). The study of influence of living organisms and life processes on the chemic structure and history of the earth.
- biogravics (bī-ō-grav'iks). That field of study dealing with effect on living organisms (particularly humans) of abnom gravitational effects produced, e.g., by acceleration or by free fa in the former case, heavier than normal weight is induced, and the latter weightlessness. [bio- + L. gravis, weight]
- bioinformatics. A scientific discipline encompassing all aspec of biologic information acquisition, processing, storage, distribution tion, analysis, and interpretation that combines the tools and tec niques of mathematics, computer science, and biology with aim of understanding the biologic significance of a variety data.
- bi o in stru ment (bī'o-in'stroo-ment). A sensor or device us ally attached to or embedded in the human body or other live animal to record and to transmit physiologic data to a receiving and monitoring station.
- bi o ki net ics (bī o-ki-net iks). The study of the growth change and movements that developing organisms undergo. [bio-+ kinesis, motion]
- bi o log ic, bi o log i cal (bī'o-loj'ik, -loj'i-kal). Relating to bio ogy
- bi ol o gist (bī-ol'o-jist). A specialist or expert in biology.
- bi ol o gy (bī-ol'o-jē). The science concerned with the phenomena
- of life and living organisms. [bio- + G. logos, study] cellular b., SYN cytology.

molecular b., study of phenomena in terms of b. molecular chemical) interactions; traditionally, the focus of molecular b. more specific than biochemistry in that it has an emphasis chemical interactions involved in the replication of DNA, "transcription" into RNA, and its "translation" into or expres in protein, i.e., in the chemical reactions connecting genotype phenotype.

oral b., that aspect of b. devoted to the study of biological p nomena associated with the oral cavity in health and disease (ef dental caries, mastication, periodontal disease).

pharmaceutical b., SYN pharmacognosy.

radiation b., field of science that studies the biological effects ionizing radiation.

- bi o lu mi nes cence (bī o-loo-min-es'ens). 1. Light produced certain organisms from the oxidation of luciferins through action of luciferases and with negligible production of chemical energy being converted directly into light energy cold light (1). 2. Any light produced by a living organism. [be L. lumen (-inis), light]
- bi ol y sis (bī-ol'i-sis). Disintegration of organic matter the the chemical action of living organisms. [bio- + G. lysis, dis tion
- biolytic (bī-ō-lit'ik). 1. Relating to biolysis. 2. Capable destroying life.

bioly