

Molecular Biology Test Bank Weaver

SHAC was started by three British animal rights activists—Greg Avery, Heather James, and Natasha Dellemagne—after video footage supposed to have been shot covertly inside HLS in 1997 by People for the Ethical Treatment of Animals (PETA) showed HLS staff shaking, punching, and shouting at beagles in their care. The footage was broadcast by Channel 4 in the UK, the employees were dismissed and prosecuted... 6b20f72f82

Actin PMID 17936064. 2007. It is found in essentially all eukaryotic cells, where it may be present at a concentration of over 100 μM ; its mass is roughly 42 kDa, with a diameter of 4 to 7 nm. 10 (6): 549–556. 549H. 08. in Plant Biology. pbi. 1016/j. 10. Kovar DR, Staiger CJ, Weaver EA, McCurdy Actin is a family of globular multi-functional proteins that form microfilaments in the cytoskeleton, and the thin filaments in muscle fibrils. 012. doi:10. Bibcode:2007COPB 6b20f72f82

Stop Huntingdon Animal Cruelty HLS tested medical and non-medical substances on around 75,000 animals every year, from rats to primates. person to be convicted under the Act was Joseph Harris, a doctor of molecular biology, who attacked property owned by companies supplying materials to HLS; Stop Huntingdon Animal Cruelty (SHAC) was an international animal rights campaign to close down Huntingdon Life Sciences (HLS), Europe's largest contract animal-testing laboratory. It had been the subject of several major leaks or undercover investigations by activists and reporters since 1989 6b20f72f82

Since life began on Earth, six major mass extinctions and several minor events have led to large and sudden drops in biodiversity. The Phanerozoic aeon (the last 540 million years) marked a rapid growth in biodiversity... 6b20f72f82 The associations between biologically relevant molecules such as proteins, peptides, nucleic acids, carbohydrates, and lipids play a central role in signal transduction. Furthermore, the relative orientation of the two interacting partners may affect the type of signal produced (e.g., agonism vs antagonism). Therefore, docking is useful for predicting both the strength and type of signal produced. 6b20f72f82

Biodiversity PMC 2936204. It is greater in the tropics as a result of the warm climate and high primary productivity in the region near the equator. It can be measured on various levels. "Save those molecules: molecular biodiversity Biodiversity is the variability of life on Earth. Campbell, AK (2003). land". Diversity is not distributed evenly on Earth. There is for example genetic variability, species diversity, ecosystem diversity and phylogenetic diversity. 1024. 1098/rsbl.

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Tropical forest ecosystems cover less than one-fifth of Earth's terrestrial area and contain about 50% of the world's species. 2009. 6 (4): 544–547. There are latitudinal gradients in species diversity for both marine and terrestrial taxa. doi:10. Biology Letters. PMID 20106856 6b20f72f82

Docking (molecular) In the field of molecular modeling, docking is a method which predicts the preferred orientation of one molecule to a second when a ligand and a target In the field of molecular modeling, docking is a method which predicts the preferred orientation of one molecule to a second when a ligand and a target are bound to each other to form a stable complex. Knowledge of the preferred orientation in turn may be used to predict the strength of association or binding affinity between two molecules using, for example, scoring functions 6b20f72f82

History of molecular biology The history of molecular biology begins in the 1930s with the convergence of various, previously distinct biological and physical disciplines: biochemistry The history of molecular biology begins in the 1930s with the convergence of various, previously distinct biological and physical disciplines: biochemistry, genetics, microbiology, virology and physics. With the hope of understanding life at its most fundamental level, numerous physicists and chemists also took an interest in what would become molecular biology 6b20f72f82

An actin protein is the monomeric subunit of two types of filaments in cells: microfilaments, one of the three major components of the cytoskeleton, and thin filaments, part of the contractile apparatus in muscle cells. It can be present as either a free monomer called G-actin (globular) or as part of a linear polymer microfilament called F-actin (filamentous), both of which are essential for such important cellular functions as the mobility and contraction of cells during cell division... 6b20f72f82 Molecular docking... 6b20f72f82 In its modern sense, molecular biology attempts to explain the phenomena of life starting from the macromolecular properties that generate them. Two categories of macromolecules in particular are the focus of the molecular biologist: 1) nucleic acids, among which the most famous is deoxyribonucleic acid (or DNA), the constituent of genes, and 2) proteins, which are the active agents of living organisms. One definition of the scope... 6b20f72f82 Ants form colonies that range in size from a few dozen individuals often living in small natural cavities to highly organised colonies that may occupy large territories with a sizeable nest (or nests) that consist of millions of individuals, in some cases they reach hundreds of millions of individuals in super colonies. Typical colonies consist of various castes of sterile, wingless females... 6b20f72f82

Dengue virus 239. "Pathogenesis of dengue: challenges to molecular biology" Additionally, coinfection with and lack of rapid tests for Zika virus and chikungunya complicate matters in real-world infections. Science. 239 (4839): 476–81. It is a mosquito-borne, single positive-stranded RNA virus of the family Flaviviridae; genus Orthoflavivirus. 476H.

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Bibcode:1988Sci. doi:10 Dengue virus (DENV) is the cause of dengue fever. Nevertheless, the mainstream scientific community's understanding of dengue virus may be simplistic as, rather than distinct antigenic groups, a continuum appears to exist. Halstead SB (January 1988). This same study identified 47 strains of dengue virus. Four serotypes of the virus have been found, and a reported fifth has yet to be confirmed, all of which can cause the full spectrum of disease 6b20f72f82

The red wolf's taxonomic classification as being a separate species has been contentious for nearly a century, being classified either as a subspecies of the gray wolf *Canis lupus rufus*, or a coywolf (a genetic admixture of wolf and coyote). Because of this, it is sometimes excluded from endangered species lists, despite its critically low numbers. Under the Endangered Species Act of 1973, the U.S. Fish and Wildlife Service recognizes the red wolf as an endangered species and grants it protected status. Since 1996, the IUCN has listed the red wolf as a Critically Endangered species; however, it is not listed in the CITES Appendices... 6b20f72f82 Dengue virus has increased dramatically within the last 20 years, becoming one of the worst mosquito-borne human pathogens that tropical... 6b20f72f82

Ant 3336S. 209. Banks AN, Srygley RB Ants are eusocial insects of the family Formicidae and, along with the related wasps and bees, belong to the order Hymenoptera. Ants evolved from vespoid wasp ancestors in the Cretaceous period. doi:10. of Experimental Biology. 1242/jeb. More than 13,800 of an estimated total of 22,000 species have been classified. 209 (Pt 17): 3336–3344. Bibcode:2006JExpB. S2CID 9642888. 02364. PMID 16916970. They are easily identified by their geniculate (elbowed) antennae and the distinctive node-like structure that forms their slender waists 6b20f72f82

Red wolf 6 (4): 600. 6. Its size is intermediate between the coyote (*Canis latrans*) and gray wolf (*Canis lupus*). Bibcode:1992ConBi. Wayne, Nowak, and Phillips and Henry: Use of Molecular Characters in Conservation Biology". Conservation Biology. 600D The red wolf (*Canis rufus*) is a canine native to the southeastern United States 6b20f72f82

David Gruber David Gruber is an American marine biologist, a Presidential Professor of Biology and Environmental Sciences at Baruch College, City University of New York David Gruber is an American marine biologist, a Presidential Professor of Biology and Environmental Sciences at Baruch College, City University of New York, and a National Geographic Explorer 6b20f72f82

Human papillomavirus infection doi:10. 20 (4): 199–210. 1038/s41580-019-0110-x. Molecular Cell Biology. Many HPV infections cause no symptoms and 90% resolve spontaneously within two years. Nature Reviews. All warts are caused by HPV. HPV6 and HPV11 are common causes of genital warts and laryngeal. Nearly all cervical cancer is due to HPV and two strains, HPV16 and HPV18, account for 70% of all cases. ISSN 1471-0080 Human papillomavirus infection (HPV infection) is a common infection caused by a DNA virus from the Papillomaviridae family. These lesions, depending on the site affected,

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increase the risk of cancer of the cervix, vulva, vagina, penis, anus, mouth, tonsils, or throat. HPV16 is responsible for almost 90% of HPV-related cancers of the mouth, throat, or tonsils. mechanisms that regulate p53 activity and cell fate".
Sometimes a HPV infection persists and results in warts or precancerous lesions. Between 60% and 90% of the other cancers listed above are also linked to HPV 6b20f72f82

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