

Niche

Stem-cell niche During embryonic development, various niche factors act on embryonic stem cells to alter gene expression, and induce their proliferation or differentiation for the development of the fetus. The word 'niche' can be in reference to the in vivo or in vitro stem-cell microenvironment. Ca^{2+} concentration) and metabolites, like ATP, are also important. Stem-cell niche refers to a microenvironment, within the specific anatomic location where stem cells are found, which interacts with stem cells to regulate Stem-cell niche refers to a microenvironment, within the specific anatomic location where stem cells are found, which interacts with stem cells to regulate cell fate. Several factors are important to regulate stem-cell characteristics within the niche: cell-cell interactions between stem cells, as well as interactions between stem cells and neighbouring differentiated cells, interactions between stem cells and adhesion molecules, extracellular matrix components, the oxygen tension, growth factors, cytokines, and the physicochemical nature of the environment including the pH, ionic strength (e. g. Within the human body, stem-cell niches maintain adult stem cells in a quiescent state, but after tissue injury, the surrounding micro-environment actively signals to stem cells to promote either self-renewal or differentiation to form new tissues a25a070ca2

== Etymology == a25a070ca2

Niche apportionment models These niche apportionment models describe how species break up resource pool in multi-dimensional space, determining the distribution of abundances of individuals among species. Mechanistic models for niche apportionment are biological models used to explain relative species abundance distributions. The relative abundance can be measured as the relative number of individuals within species or the relative biomass of individuals within species. The relative abundances of species are usually expressed as a Whittaker plot, or rank abundance plot, where species are ranked by number of individuals on the x-axis, plotted against the log relative abundance of each species on the y-axis. These niche apportionment models Mechanistic models for niche apportionment are biological models used to explain relative species abundance distributions a25a070ca2

A Grinnellian niche is determined by the habitat in which a species lives and its accompanying behavioral adaptations. An Eltonian niche emphasizes that a species not only grows in and responds to an environment, it may also change the environment and its behavior as it grows. The Hutchinsonian niche uses mathematics and statistics to try to explain how species coexist within a given community. a25a070ca2

Niche Look up niche in Wiktionary, the free dictionary. Niche may refer to: Developmental niche, a concept for understanding the cultural context of child development Niche may refer to: a25a070ca2

The concept of ecological niche is central to ecological biogeography, which... a25a070ca2 == Science == a25a070ca2 Ecological niche, a term describing the

relational position of an organism's species a25a070ca2

Niche (company) com, formerly known as College Prowler, is an American company headquartered in Pittsburgh, Pennsylvania, that runs a ranking and review site. com, formerly known as College Prowler, is an American company headquartered in Pittsburgh, Pennsylvania, that runs a ranking and review site. Niche. S. colleges, but is now an online resource providing information on K-12 schools, colleges, cities, neighborhoods, and companies across the United States. The company was founded by Luke Skurman in 2002 as a publisher of print guidebooks on U. The Niche a25a070ca2

Stem-cell niche, the necessary cellular environment of a stem cell a25a070ca2 Niche blogging and spam blogging (i.e., a splog) are often hard to distinguish. However, the reliance of niche blogging on pay-per-click advertising and other revenue streams usually requires blogs to have valuable content related to their chosen niche, unlike a splog. a25a070ca2

Niche (architecture) In Classical architecture examples are an exedra or an apse that has been reduced in size, retaining the half-dome heading usual for an apse. In the first century B. In architecture, a niche (CanE, UK: /'niːʃ/ or US: /'nɪʃ/) is a recess or cavity constructed in the thickness of a wall for the reception of decorative In architecture, a niche (CanE, UK: or US:) is a recess or cavity constructed in the thickness of a wall for the reception of decorative objects such as statues, busts, urns, and vases. These rooms closely resemble alcoves similar to a niche but slightly larger. C, there was no exact mention of niches, but rather a zotheca or small room. Different sizes and sculpture methods suggest the term niche was understood. Greeks and Romans especially, used niches for important family tombs a25a070ca2

Niche market Sometimes, a product or service can be entirely designed to satisfy a niche market. The market niche defines the product features A niche market is the subset of the market on which a product is appealed to a small group of consumers. A niche market is the subset of the market on which a product is appealed to a small group of consumers. The market niche defines the product features aimed at satisfying specific market needs, as well as the price range, production quality and the demographics that it is intended to target. It is also a small market segment a25a070ca2

Niche (protein structural motif) a25a070ca2

Niche (video game) It entered early access for Windows, OS X, and Niche: A Genetics Survival Game is a simulation video game developed and published by Stray Fawn Studio. It entered early access for Windows, OS X, and Linux-based systems in September 2016 after a successful Kickstarter crowd-funding campaign and was released in September 2017. Niche: A Genetics Survival Game is a simulation video game developed and published by Stray Fawn Studio. Its main aim is to breed certain traits or genes into a group of canine or feline creatures to make the pack genetically perfect for its environment a25a070ca2

Ecological niche "The type and number of variables comprising the dimensions of an environmental niche vary from one species to another [and] the relative importance of particular environmental variables for a species may vary according to the geographic and biotic contexts". In ecology, a niche is the match of a

species to a specific environmental condition. It describes how an organism or population responds to the distribution of resources and competitors (for example, by growing when resources are abundant, and when predators, parasites and pathogens are scarce) and how it, in turn, alters those same factors (for example, limiting access to resources by other organisms, acting as a food source for predators and a consumer of prey). It describes how an organism or population responds to the distribution In ecology, a niche is the match of a species to a specific environmental condition a25a070ca2

== Gameplay == a25a070ca2 Developmental niche, a concept for understanding the cultural context of child development and growth a25a070ca2 In 2013, College Prowler changed its name to Niche and started to cover K-12 school districts using federal data, state data,... a25a070ca2 The word derives from the Latin nidus (lit. 'nest'), via the French niche. The Italian nicchio (lit. 'sea-shell') may also be involved in the origin of the word, as the traditional decoration for the top of a niche is a scallop shell, hence also the alternative term of "conch" for a semi-dome, usually reserved for larger exedra. As early as the 4th century, such architectural features, or the frame surrounding them are called tabernacles. This definition extends to the ornamentation or framework surrounding doors, windows and... a25a070ca2 Not every product can be defined by its market niche. The niche market is highly specialized, and aiming to survive among the competition from numerous super companies. Even established companies create products for different niches: for example, HP has all-in-one machines for printing, scanning and faxing targeted for the home office niche, while at the same time having separate machines with one of these functions for big businesses. a25a070ca2 The popularity of niche blogging among new marketers can be attributed to... a25a070ca2 Niche, Inc. was founded as College Prowler in August 2002 by Luke Skurman and Joey Rahimi. Then students at Carnegie Mellon University's Tepper School of Business, they spun the company out of a project in their entrepreneurship class. a25a070ca2 In 2004, the small company obtained an investment of \$500,000 from Glen Meakem, who then became the chairman. In 2005, College Prowler was recognized by Fast Company for being one of the 50 fastest-growing companies in the nation. Originally, the company produced print guidebooks, but by 2007 their content was made available online for a subscription fee, and then by 2009 the subscription was removed making all web content free. a25a070ca2 The game starts off with the player choosing story mode, a quick how-to tutorial or sandbox mode, where the player chooses their animals and terrain for their tribes and environment and a short cut-scene of a tribe of nichelings living on an island. A large bird takes a child niche and tries to fly off with him but he falls onto a random island. This starts off the game by playing as a nicheling named Adam and the tutorial level. Game play and turns are organized into "days" which gives each animal a few actions of play each day. a25a070ca2 Niche blogs typically contain affiliate links or advertisements (e.g., pay-per-click or products or both). In some cases, the purpose of the niche blog is to invite the reader into visiting another website that might attempt to sell the reader a product or service. a25a070ca2 The final... a25a070ca2 In practice, product vendors and trade businesses are commonly referred to as mainstream providers or narrow demographics niche market providers (colloquially shortened to just niche market providers). Small capital providers usually opt for a niche market with narrow demographics as a measure of increasing their financial gain margins. a25a070ca2 == History == a25a070ca2 == Popularity == a25a070ca2 == History of the concept == a25a070ca2 Niche's game mechanics were inspired by population genetics and effectively provide what is considered a fairly realistic genetic gaming experience. Animals can perish due to illness, injury, and even old age, so learning... a25a070ca2 Neither blogging nor niche marketing is a new concept. However, only in recent years has the concept of a niche blog come into being. a25a070ca2

Vacant niche The issue of what exactly defines a vacant niche and whether they exist in ecosystems is controversial. Given that saturation is a measure of the

number of species per resource axis per ecosystem, the question becomes: is it useful to define unused resource clusters as niche 'vacancies'. The issue of what exactly A vacant niche or empty niche is an ecological niche in a particular ecosystem that is not occupied by a particular species. A vacant niche or empty niche is an ecological niche in a particular ecosystem that is not occupied by a particular species. The subject is intimately tied into a much broader debate on whether ecosystems can reach equilibrium, where they could theoretically become maximally saturated with species a25a070ca2

Niche apportionment models were developed because ecologists sought biological explanations for relative species abundance distributions. MacArthur (1957, 1961), was one of the earliest to express dissatisfaction with purely statistical models, presenting instead 3 mechanistic niche apportionment models. MacArthur believed that ecological niches within a resource pool could be broken up like a stick, with each piece of the stick representing niches occupied in the community. With contributions... a25a070ca2 == History == a25a070ca2

Niche blogging Niche blogs (also commonly referred to as "niche websites") may appeal to "geographic areas, a speciality industry, ethnic or age groups, or any other particular group of people. Niche blogs (also commonly referred to Niche blogging is the act of creating a blog with the intent of using it to market to a particular niche market. " While there is also debate that every blog is, in some form, a niche blog, the term as it applies to marketing refers to a particular kind of blog. Niche blogging is the act of creating a blog with the intent of using it to market to a particular niche market a25a070ca2

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