

What Is Gene Migration

Due to the highly viscous environment (low Reynolds number), cells need to continuously produce forces in order to move. Cells achieve active movement by very different mechanisms. Many less complex prokaryotic organisms (and sperm cells) use flagella or cilia to propel themselves. Eukaryotic cell migration typically is far more complex and can consist of combinations of different migration mechanisms. It generally involves drastic changes... c156c8bad1 The Proto-Indo-Iranian culture, which gave rise to the Indo-Aryans and Iranians, developed on the Central Asian steppes north of the Caspian Sea as the Sintashta culture (c. 2200–1900 BCE), in present-day Russia and Kazakhstan, and developed further as the Andronovo culture (2000–1450 BCE). c156c8bad1 == Expression == c156c8bad1

Cell migration It is a central process in the development and maintenance of multicellular Cell migration is the movement of cells, either individually or as a group. Cell migration is the movement of cells, either individually or as a group. An understanding of the mechanism by which cells migrate may lead to the development of novel therapeutic strategies for controlling, for example, invasive tumour cells. Cells often migrate in response to specific external signals, including chemical signals and mechanical signals. It is a central process in the development and maintenance of multicellular organisms: tissue formation during embryonic development, wound healing and immune responses all require the orchestrated movement of cells in particular directions to specific locations. Errors during this process have serious consequences, including intellectual disability, vascular disease, tumor formation and metastasis c156c8bad1

Mig-7 expression increases in malignant cancers. There... c156c8bad1 The Indo-Aryans split off sometime between 2000 BCE and 1600 BCE from the Indo-Iranians, and migrated southwards to the Bactria–Margiana culture (BMAC), from which they borrowed some of their distinctive religious beliefs and practices, but there is little evidence of... c156c8bad1 Induction of Mig-7 expression occurs downstream of Epidermal growth factor/Epidermal growth factor receptor, Cox-2/PGE-2 or Hepatocyte growth factor/c-Met activation and signalling. Data has shown that Mig-7 expression is specific to human embryonic/fetal cytotrophoblast cells and epithelial type cancer cells, while not expressed in normal cells. Data demonstrate that targeting of Mig-7 simultaneously inhibits more than one cancer-progressing pathway while likely sparing normal cells. c156c8bad1 In terms of biomass, DVM is the largest synchronous migration in the world. It is not restricted to any one taxon, as examples are known from crustaceans (copepods), molluscs (squid), and ray-finned fishes (trout). c156c8bad1

Indo-Aryan migrations North India, Pakistan, and Sri Lanka. These are the predominant languages of today's Bangladesh, Maldives, Nepal, North India, Pakistan, and Sri Lanka. Indo-Aryan migration into the region, from Central Asia, is considered to have started after 2000 BCE as a slow The Indo-Aryan migrations were the migrations into the Indian subcontinent of Indo-Aryan peoples, an ethnolinguistic group that spoke Indo-Aryan languages c156c8bad1

Mig-7 expression is found on, as well as in, epithelial tumor cells at the primary site, secondary (metastatic) sites, and blood from cancer patients. It is not produced by cells of normal human tissues or by cells from patients with inflammation but is expressed by epithelial precancerous and malignant cells. It is also expressed in fetal/embryonic cytotrophoblast cells of early placenta. c156c8bad1 The phenomenon may be advantageous for a number of reasons, most typically to access food and to avoid predators. c156c8bad1

Reverse migration (birds) Reverse migration, also called reverse misorientation, is a phenomenon whereby a bird migrates in the opposite direction to that typical of its species c156c8bad1

Diel vertical migration The adjective "diel" (IPA: ,) comes from Latin: diēs, lit. DVM is important to the functioning of deep-sea food webs and the biologically-driven sequestration of carbon.

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'day', and refers to a 24-hour period. Diel vertical migration (DVM), also known as diurnal vertical migration, is a pattern of movement used by some organisms, such as copepods, living in the ocean and in lakes. The migration occurs when organisms move up to the uppermost layer of the water at night and return to the bottom of the daylight zone of the oceans or to the dense, bottom layer of lakes during the day

Early human migrations The earliest migrations and expansions of archaic and modern humans across continents are believed to have begun approximately 2 million years ago with

Pre-modern human migration See Early human migrations for migration prior to the Neolithic, History of human migration for. prehistorical migration since the Neolithic period until AD 1800

Migration-inducing gene 7 It is the first-in-class of novel proteins translated from what are thought to be long Non-coding RNAs. Migration inducing gene 7 (Mig-7 or Mig7) is a gene that corresponds to a cysteine-rich protein localized to the cell membrane and cytoplasm. It is the Migration inducing gene 7 (Mig-7 or Mig7) is a gene that corresponds to a cysteine-rich protein localized to the cell membrane and cytoplasm

The Sports Gene The Sports Gene is a nonfiction book written by David Epstein, at the time a senior writer for Sports Illustrated, on the effects of genetics and sports

It is triggered by various stimuli, the most prominent being changes in light-intensity, though evidence suggests that biological clocks are an underlying stimulus as well. While this mass migration is generally nocturnal, with the animals ascending from the depths at nightfall and...

Gene flow It has been shown that it takes only "one migrant per generation" to prevent populations from diverging due to drift. High rates of gene flow can reduce the genetic differentiation between the two groups, increasing homogeneity. If the rate of gene flow is high In population genetics, gene flow (also known as migration and allele flow) is the transfer of genetic material from one population to another. gene flow (also known as migration and allele flow) is the transfer of genetic material from one population to another. In some cases. Gene flow is an important mechanism for transferring genetic diversity among populations. Gene flow has been thought to constrain speciation and prevent range expansion by combining the gene pools of the groups, thus preventing the development of differences in genetic variation that would have led to differentiation and adaptation for this reason. Migrants change the distribution of genetic diversity among populations, by modifying allele frequencies (the proportion of members carrying a particular variant of a gene). If the rate of gene flow is high enough, then two populations will have equivalent allele frequencies and therefore can be considered a single effective population. Populations can diverge due to selection even when they are exchanging alleles, if the selection pressure is strong enough

Fish migration Fish migration is mass relocation by fish from one area or body of water to another. Many types of fish migrate on a regular basis, on time scales ranging

Indo-Aryan migration into the region, from Central Asia, is considered to have started after 2000 BCE as a slow diffusion during the Late Harappan period and led to a language shift in the northern Indian subcontinent. Several hundred years later, the Iranian languages were brought into the Iranian plateau by the Iranians, who were closely related to the Indo-Aryans.

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