

Hedgehog Gli Signaling In Human Disease Molecular Biology Intelligence Unit

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Hedgehog Gli Signaling In Human

The Hedgehog signaling pathway is a signaling pathway that transmits information to embryonic cells required for proper cell differentiation. Different parts of the embryo have different concentrations of hedgehog signaling proteins. The pathway also has roles in the adult.

Hedgehog signaling pathway - Wikipedia

Hedgehog-Gli Signaling in Human Disease represents the first compilation of up-to-date reviews by top-level scientists in this important field of research. The chapters cover a wide spectrum of related interests, from the molecular bases of morphogen function, to human genetics to cancer research.

Hedgehog-Gli Signaling in Human Disease (Molecular Biology ...

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Hedgehog-Gli Signaling in Human Disease | SpringerLink

Hedgehog-Gli signaling drives self-renewal and tumorigenicity of human melanoma-initiating cells. The question of whether cancer stem/tumor-initiating cells (CSC/TIC) exist in human melanomas has arisen in the last few years. Here, we have used nonadherent spheres and the aldehyde dehydrogenase (ALDH) enzymatic activity to enrich for CSC/TIC in a collection of human melanomas obtained from a bro

Hedgehog-Gli signaling drives self-renewal and ...

The signaling pathway is activated by hedgehog protein (Hh), which acts as a chemical mediator to begin the signal transduction. There are 3 main hedgehog proteins found within vertebrates: Sonic...

What is the Hedgehog Signaling Pathway?

We find that human gliomas display a stemness signature and demonstrate that HEDGEHOG (HH)-GLI signaling regulates the expression of stemness genes in and the self-renewal of CD133 + glioma cancer stem cells. HH-GLI signaling is also required for sustained glioma growth and survival.

HEDGEHOG-GLI1 Signaling Regulates Human Glioma Growth ...

The Hedgehog-Gli signaling pathway is involved in the regulation of the proliferation of precursors in different organs of the normal vertebrate embryo. These cells express Gli1 and may be the target of cancer-causing agents.

Hedgehog-Gli signaling in brain tumors: stem cells and ...

[2-6]. We find that human gliomas display a stemness signature and demonstrate that HEDGEHOG (HH)-GLI signaling regulates the expression of stemness genes in and the self-renewal of CD133(+) glioma cancer stem cells. HH-GLI signaling is also required for sustained glioma growth and survival. It displays additive and

HEDGEHOG-GLI1 signaling regulates human glioma growth ...

The Gli proteins are the effectors of Hedgehog (Hh) signaling and have been shown to be involved in cell fate determination, proliferation and patterning in many cell types and most organs during embryo development.

GLI1 - Wikipedia

Hedgehog (Hh)-Gli signaling is conserved and is involved in many aspects of animal development and patterning. It is also notably involved in the control of cancer stem cells and tumor growth.

Hedgehog Signaling and the Gli Code in Stem Cells, Cancer ...

transcriptional target of GLI2, a Hedgehog pathway signaling effector. This potentially reflects the high expression of survivin in human tumor cells. As the Hedgehog pathway is upregulated in virtually all types of cancer cells, these findings substantially contribute to the explanation of uniform survivin

Survivin, a novel target of the Hedgehog/Gli signaling ...

Here we report that SONIC HEDGEHOG (SHH)-GLI signaling is active in the matrix of human hair follicles, and that it is required for the normal proliferation of human melanocytes in culture. SHH-GLI signaling also regulates the proliferation and survival of human melanomas: the growth, recurrence, and metastasis of melanoma xenografts in mice are prevented by local or systemic interference of HH-GLI function.

Melanomas require HEDGEHOG-GLI signaling regulated by ...

hedgehoggli target gene expression by epidermal growth factor signaling in human keratinocytes. Mol Cell Biol. 2006;26:6283-98. 71. Schnidar H, Eberl M, Klingler S, Mangelberger D, Kasper M, Hauser-Kronberger C, Regl G, Kroismayr R, Moriggl R, Sibilia M, et al. Epidermal growth factor receptor signaling synergizes with hedgehog/gli in

Phosphoproteomics of short-term hedgehog signaling in ...

The Hedgehog (Hh) pathway has been implicated in a wide variety of human tumors, and early clinical trials with pathway antagonists have validated Hh signaling as a bona fide anticancer target. Despite these encouraging results, several issues surrounding the basic biology of the Hh pathway in human cancers remain unclear.

Targeting Hedgehog — a Cancer Stem Cell Pathway | Clinical ...

The Hedgehog (Hh) signaling pathway is highly conserved from flies to humans and is essential for development of the normal embryo (1, 2). In mammals, Hh signaling regulates both patterning and polarity events during early embryogenesis and the morphogenesis of specific organs and tissues.

Molecular Pathways: The Hedgehog Signaling Pathway In ...

The Hedgehog (HH)/GLI signaling pathway plays a critical role during vertebrate embryogenesis, during which it controls pattern formation, proliferation, and differentiation of a number of different cell types.

Activation of the BCL2 Promoter in Response to Hedgehog ...

Aberrant activation of Hedgehog (HH) signaling has been identified as a key etiologic factor in many human malignancies.