Lenvatinib Suppresses Angiogenesis through the Inhibition of both the VEGFR and FGFR Signaling Pathways

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Lenvatinib mesilate (lenvatinib) is an oral multiple-receptor tyrosine kinase inhibitor that selectively inhibits the kinase activities of Vascular Endothelial Growth Factor Receptor (VEGFR) 1-3, Fibroblast Growth Factor Receptor (FGFR) 1-4, Platelet-Derived Growth Factor Receptor (PDGFR), KIT, and RET. The VEGFR and FGFR signaling pathways are the master regula ...

A Novel Small-Molecule Integrin Antagonist Inhibits Cells Adhesion Followed By Anoikis in Endothelial Cells - A Comparative Analysis with Cilengitide

Published On: March 18, 2016 | Pages: 009 - 018

Author(s): Agnieszka Christenheit*, Petra Heffeter and Edgar Selzer

Background: Despite the crucial role of integrin receptors in cancer pathogenesis and massive efforts towards establishing clinically relevant drugs, to the present no effective integrin antagonist for the treatment of malignant diseases has been introduced into the clinic. Context and purpose of the study: The purpose of the study was to examine the cellular effec ...

Case Report
Gamma-Delta T Cell Acute Lymphoblastic Leukemia: A Single-Center Experience

 Gamma-delta () T cell neoplasms are a rare disease entity characterized by an aggressive clinical course [1,2]. The management of these neoplasms associated with high incidence of induction failures and poor clinical outcomes [3]...

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Primary Leiomyosarcoma of the Mandibular Gingiva

Primary oral leiomyosarcomas are exceptionally rare lesions often associated with poor prognosis. We report a case of leiomyosarcoma arising in the anterior mandibular gingiva, which is a non-prevalent site of occurrence. Clinically, the tumor was far from being firm and solid as it is usually described in the literature. Light microscopy failed to confirm the true na ...

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The Paradoxes of Neoantigens in Predicting Better Prognosis of Cancer Patients

Increased neoantigens of cancer generated by mutations are reported to be associated with favorable prognosis of cancer patients. The interesting findings contradict the notions that cancers were caused by accumulation of gene mutations. ...
Bortezomib in Anti-Cancer Activity: A Potential Drug

Published On: March 08, 2016 | Pages: 005 - 008

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26S proteasome is an intracellular; ATP dependent enzymatic complex degrades ubiquitin-tagged proteins and maintains cellular homeostasis. The orderly degraded proteins including cyclins, caspases, Bcl-xL, p53, cell adhesion molecules are involved in cell-cycle progression, tumor suppression, DNA replication, inflammation, and apoptosis. So, proteasome inhibition is a ...