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Biliary tract cancer stem cells - translational options and challenges

Christian Mayr, Matthias Ocker, Markus Ritter, Martin Pichler, Daniel Neureiter, Tobias Kiesslich

Abstract
Management of biliary tract cancer remains challenging. Tumors show high recurrence rates and therapeutic resistance, leading to dismal prognosis and short survival. The cancer stem cell model states that a tumor is a heterogeneous conglomerate of cells, in which a certain subpopulation of cells - the cancer stem cells - possesses stem cell properties. Cancer stem cells have high clinical relevance due to
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