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Name of Journal: *World Journal of Clinical Cases***Manuscript NO.:** 54479**Manuscript Type:** MINIREVIEWS**Functions and mechanisms of chemokine receptor 7 in tumors of the digestive system**

Qi Xin, Quan Sun, Chuan-Shan Zhang, Qin Zhang, Chun-Jun Li

Abstract

Chemokine (C-X-C motif) receptor 7 (CXCR7), recently termed ACKR3, belongs to the G protein-coupled cell surface receptor family, binds to stromal cell-derived factor-1 [SDF-1, or Chemokine (C-X-C motif) ligand 12] or Chemokine (C-X-C motif) ligand 11, and is the most common chemokine receptor expressed in a variety of cancer cells. SDF-1 binds to its receptor chemokine (C-X-C motif) receptor 4 (CXCR4) and regulates cell proliferation,

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Chemokine receptors are involved in the development and metastasis of various **tumors**. 5 **Chemokine receptor 7 (CXCR7)**—formerly known as RDC1—is the **second receptor** for C-X-C motif **chemokine 12 (CXCL12)**/stromal cell-derived factor 1 (SDF-1), with a 10-fold higher binding capacity than CXCR4. 6 It has been reported that CXCR7 is highly expressed in colon cancer. 7 More recently, numerous ...

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kines and their respective **receptors** on cancer cells in potential **mechanisms** for cancer metastasis (2–11). Of note, investigators have reported the association of **chemokine receptors** C-C **chemo-kine receptor 7** (CCR7) and C-X-C **chemokine receptor 4** (CXCR4) expression in several cancers with organ or tissue specific metastasis (3, 4, 7–9, 11).

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May 21, 2013 · Here we review chemokine/chemokine receptor interactions, specifically in digestive organs. **Oral cavity**. In the head and **neck region**, which includes **oral cavity**, **pharynx**, **larynx**, **nasal cavity** and **paranasal sinuses**, the **head and neck squamous cell carcinoma** (HNSCC) accounts for more than 90% of **malignant neoplasms**[101].

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