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Basic Study

Cytotoxic CD8+ T cells and Tissue Resident Memory (TRM) cells in Colorectal Cancer based on Microsatellite Instability (MSI) and BRAF status

Memory Cells in Colorectal Cancer

Abstract

BACKGROUND

Recent studies in non-colorectal malignancy have associated resident memory T cells (T_{RM}) with improved patient survival. It is unknown if T_{RM} plays a role in colorectal cancer (CRC).

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However, there is a need for further research into the roles of **tissue-resident memory T cells** (TRMs) in mediating protective or pathogenic adaptive immunity.^{7 8} Human skin is populated with approximately 20 billion **resident T cells**,⁹ which can provide protection against infection¹⁰ and melanoma^{11 12} and play a crucial role in the pathogenesis ...

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Jul 01, 2020 · Peri and intratumoural CD8 + T cells have previously been identified as a major favourable prognostic factor in **colorectal cancer** . CD8 + CD45RO + **memory T cells**, which is a subpopulation of **cytotoxic T cells**, may respond quickly to a previously encountered antigen stimulus , and our previous study indicated that intratumoural CD45RO + cells ...

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Author: Kenji Fujiyoshi, Kenji Fujiyoshi, Juha P. V...

Publish Year: 2020

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Studies involving tumour material from numerous solid tumour types, including breast cancer, demonstrate that the CD8⁺ TILs include a subpopulation of **tissue-resident memory T (TRM) cells**.

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Oct 01, 2020 · Results Despite the hostile CD8 + **cytotoxic T lymphocyte (CTL)/Th1** microenvironment in **MSI colon cancer**, a high percentage of exhausted CD8 + T cells and upregulated expression of immune checkpoints were identified in **MSI colon cancer** at the single-cell level, indicating the potential neutralizing effect of **cytotoxic T-cell activity** by exhausted T-cell **status**.

Author: Xuanwen Bao, Hangyu Zhang, Wei W...

Publish Year: 2020



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CD103+ intraepithelial lymphocytes - A unique population ...

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A recently identified subpopulation of **memory CD8⁺ T cells**, named **tissue-resident memory T (TRM) cells**, persists in peripheral tissues and does not recirculate.

Tissue-Resident Memory T Cells in Cancer ...

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CD103 (ITGAE, integrin αE) appears to be a definitive marker for antigen-experienced **tissue resident memory T-cells (Trm) CD8⁺ cells**, a subpopulation of effector **memory cells** with **cytotoxic** properties that circulate through various lymphoid and non-lymphoid tissues including the skin, gastrointestinal tract, lung, and genitourinary tracts ...

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Apr 13, 2020 · CD103+ CD8+ TILs were presented in ESCC, which displayed phenotype of **tissue-resident memory T cells** and exhibited high expression of immune checkpoints (PD-1, TIM-3). CD103+ CD8+ TILs...

Author: Lu Han, Quan-Li Gao, Xiu-Man Zhou, Ch... **Publish Year:** 2020

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Cited by: 23 **Author:** Natasja L de Vries, Vincent van Unen, Mari...

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Distinct epigenetic features of tumor-reactive CD8+ T ...

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