

Targeting increased levels of tumor necrosis factor (TNF) in the brain relieves n



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by RN Spengler

Mar 12, 2018 - Robert Spengler and Tracey Ignatowski discuss the evolving concept that **brain TNF** is a therapeutic **target** for chronic **pain** treatment and the potential of anti- **TNF** ... In fact, the pleiotropic and pro-inflammatory cytokine, **tumor necrosis factor** -alpha (TNF α), known to orchestrate the cellular reactions in an ...

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Gabapentin **relieves neuropathic pain** and inhibits **brain** and spinal neuroinflammatory responses in ... and 8 h after medication. The **levels of tumor necrosis factor (TNF)- α** , interleukin (IL)-6, and IL-10 and ... gabapentin inhibited the **increases in TNF- α** , IL-6 **levels**, NF- κ B activities and the decreases in IL-10 **levels** in the right ...

TNF- α and neuropathic pain - a review | Journal of Neuroinflammation ...

<https://jneuroinflammation.biomedcentral.com/articles/10.1186/1742-2094-7-27> ▼

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Tumor necrosis factor alpha (TNF- α) was discovered **more** than a century ago, and its known roles have extended from within the immune system to include a Similar results are found in humans, where **nerve** biopsies from patients with **painful neuropathy** show **higher levels of TNF- α** expression, especially in Schwann ...

Treatment of Cancer Pain by Targeting Cytokines - NCBI - NIH

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Name of Journal: *World Journal of Anesthesiology*

Manuscript NO: 39078

Manuscript Type: REVIEW

Targeting tumor necrosis factor in the brain relieves neuropathic pain

Ignatowski TA *et al.* TNF and neuropathic pain

Tracey A Ignatowski, Robert N Spengler

Abstract

2 Neuropathic pain is a chronic syndrome caused by direct damage to or disease of the somatosensory nervous system. The lack of safe, adequate and sustained pain relief offered by present analgesic treatments is most alarming. While many treatment options are available to manage chronic pain, such as antidepressants, non-steroidal

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Immune and inflammatory mechanisms in neuropathic pain

G Moalem, DJ Tracey - [Brain research reviews](#), 2006 - Elsevier

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Microglia: a promising target for treating neuropathic and postoperative pain, and morphine tolerance

YR Wen, PH Tan, JK Cheng, YC Liu, RR Ji - [Journal of the Formosan ...](#), 2011 - Elsevier

... Thus, **targeting** microglial signal- ing via inhibiting the actions of chemokines (eg FKN or CCL2 ...
pain: a longitudinal retrospective study on a cohort of end-stage **cancer** patients ... distinct and overlapping role of interleukin-1beta, interleukin-6, and **tumor necrosis factor**- alpha in ...

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Molecular mechanisms of cancer pain

PW Mantyh, DR Clohisy, M Koltzenburg... - ... [Reviews Cancer](#), 2002 - nature.com

... Moreover, medications that are **targeted** at decreasing inflammation-associated **pain**, such as non ... is another agent that holds significant promise for alleviating bone **cancer pain** (Table 2 ... is a secreted soluble receptor that is a member of the **tumour necrosis factor** receptor (TNFR ...

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Beyond neurons: evidence that immune and glial cells contribute to pathological pain states

LR Watkins, SF Maier - [Physiological reviews](#), 2002 - Am Physiological Soc

... of substances released by activated immune and glial cells, proinflammatory cytokines (**tumor necrosis factor**, interleukin-1 ... cells and that immune activation may indeed be a critical **factor** in the ... processes are highly adaptive when directed against pathogens or **cancer** cells, they ...

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Gene therapy for neuropathic pain by silencing of TNF- α expression ...

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作者 : N Ogawa - 2014 - 被引用次数 : 20 - 相关文章

2014年3月18日 - Gene therapy for neuropathic pain by silencing of TNF- α expression with lentiviral vectors targeting the dorsal ... These results suggest that lentiviral-mediated silencing of TNF- α in DRG relieves neuropathic pain and reduces ...

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作者 : RN Spengler

2018年3月12日 - ... that brain TNF is a therapeutic target for chronic pain treatment and ... For example, total relief of peripheral hypersensitivity in neuropathic pain models ... Targeting TNF α (i.e., decreasing activity) in the brain, as opposed to ...