

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 $\alpha$ ), known to orchestrate the cellular reactions in an ...

## [PDF] Gabapentin relieves neuropathic pain and inhibits brain and spinal ...

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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)- $\alpha$** , interleukin (IL)-6, and IL-10 and ... gabapentin inhibited the **increases in TNF- $\alpha$** , **IL-6 levels**, **NF- $\kappa$ B activities** and the decreases in **IL-10 levels** in the right ...

## TNF- $\alpha$ and neuropathic pain - a review | Journal of Neuroinflammation ...

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

by L Leung - 2010 - Cited by 350 - Related articles

**Tumor necrosis factor** alpha (TNF- $\alpha$ ) 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- $\alpha$**  expression, especially in Schwann ...

## Treatment of Cancer Pain by Targeting Cytokines - NCBI - NIH

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4619962/> ▼

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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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Gabapentin **relieves neuropathic pain** and inhibits **brain** and spinal neuroinflammatory ... butyric acid (GABA), **targeting** alpha 2 delta 1 subunit of ... The levels of **tumor necrosis factor (TNF)- $\alpha$** , interleukin (IL)-6, and IL-10 and the activities of ...

### Gene therapy for neuropathic pain by silencing of TNF- $\alpha$ 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- $\alpha$**  expression with lentiviral vectors **targeting** the dorsal ... These results suggest that lentiviral-mediated silencing of **TNF- $\alpha$**  in DRG **relieves neuropathic pain** and reduces ...

缺少字词 : **brain**

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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 $\alpha$  (i.e., decreasing activity) in the **brain**, as opposed to ...