

The Role Of Cytokines In Disease Progression
And Therapy Of Multiple Sclerosis
By Anette van Boxel-Dezaire

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The Role of Cytokines in the Inflammatory Response (Journal Biological Signals, Vol. 5, No 4, 1996): 9783805563802: Medicine & Health Science Books @ Amazon.com

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Alzheimer's disease (AD) is the most common neurodegenerative disorder to date. Cytokines play a key role in inflammatory and anti-inflammatory processes in AD.

<http://www.hindawi.com/journals/tswj/2012/756357/>

Suppression of Ongoing Disease in a Nonhuman Primate Model of

<http://www.jimmunol.org/lookup/pmid?view=long&pmid=16177124>

Goldring MB: The role of cytokines as inflammatory mediators in osteoarthritis: lessons from animal models. Connect Tissue Res 1999, 40:1 11.

<http://link.springer.com/article/10.1007%2Fs11926-000-0021-y>

Cytokines are small secreted proteins released by cells have a specific effect on the interactions and communications between cells. Cytokine is a general name; other

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2785020/>

release in multiple sclerosis patients and controls ongoing immunomodulatory therapy. cytokines has been postulated (Van Boxel-Dezaire et al., 1999).

[http://www.jni-journal.com/article/S0165-5728\(02\)00322-3/pdf](http://www.jni-journal.com/article/S0165-5728(02)00322-3/pdf)

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Cytokines are produced transiently by cutaneous cells in response to immune stimuli. They are non-immunoglobulin proteins and glycoproteins. Cytokines, which are

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3352652/>

E-Mail Address. Password. Forgotten Password? Remember Me
<https://onlinelibrary.wiley.com/doi/10.1002/ana.20224/citedby>
Gene expression profiling of relevant biomarkers for
[http://www.jni-journal.com/article/S0165-5728\(04\)00087-6/fulltext](http://www.jni-journal.com/article/S0165-5728(04)00087-6/fulltext)

Circulating Cytokines as EP. The role of proinflammatory cytokines in the pathogenesis of fever has been discovered at the end of the 1970s and the beginning of
http://cid.oxfordjournals.org/content/31/Supplement_5/S178.full

1 Discovery of cytokines; 2 Difference from hormones; 3 Nomenclature; 4 Classification. 4.1 Structural; 4.2 Functional; 5 Receptors; 6 Cellular effects; 7 Roles of
<http://en.wikipedia.org/wiki/Cytokine>

Role of Cytokines in the Pathogenesis of Inflammatory Bowel Disease Annual Review of Medicine. Vol. 51: 289-298 (Volume publication date February 2000) DOI:
<http://www.annualreviews.org/doi/abs/10.1146/annurev.med.51.1.289>

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<http://www.gettextbooks.com/isbn/9789090150932>

Cytokines and Inflammatory Response: Submitted by: Michael Macrophages also present antigen to T helper cells that play a central role in coordinating immune
http://www.biocarta.com/pathfiles/h_inflamPathway.asp

Effect of treatment with methylprednisolone on the serum Mobile
[http://www.clineu-journal.com/article/S0303-8467\(08\)00208-4/fulltext](http://www.clineu-journal.com/article/S0303-8467(08)00208-4/fulltext)
: Arthur Kavanaugh, MD, discusses the role of cytokines and kinases in the pathogenesis of rheumatoid arthritis.
http://www.medscape.org/viewarticle/726181_transcript

The purpose of this review is to summarize recent work on the role of cytokines in antiparasitic immune responses and immunopathology caused by blood-stage parasites.

<http://cvi.asm.org/content/9/6/1145.full>

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The role of interleukin-10 in autoimmune disease: systemic

[http://www.cgfr.co.uk/article/S1359-6101\(02\)00025-4/fulltext](http://www.cgfr.co.uk/article/S1359-6101(02)00025-4/fulltext)

Cytokine, Inflammatory Response & Other Immunology. Inflammation is one of the first responses of the immune system to infection. The symptoms of inflammation include

http://www.sabiosciences.com/Cytokines_Inflammation.php

Immunity aspects of cachexia. Recently, interest has focused on the role that the immune system plays in the development of cachexia. Hunger and satiety

<http://ajcn.nutrition.org/content/70/2/183.full>

Disease Summaries The Role of Cytokines in the Inflammatory Process of Asthma and Response to Therapy

http://www.worldallergy.org/professional/allergic_diseases_center/cytokines/

highlighting the complex role cytokines play in the disease (Van Boxel-Dezaire et Modulation of cytokine pathways as therapy for multiple sclerosis.

<http://www.sciencedirect.com/science/article/pii/S0163725804002037>

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[http://www.jns-journal.com/article/S0022-510X\(02\)00420-3/fulltext](http://www.jns-journal.com/article/S0022-510X(02)00420-3/fulltext)

Abstract Analysis of cytokine mRNA and protein in rheumatoid arthritis tissue revealed that many proinflammatory cytokines such as TNF , IL-1, IL-6, GM-CSF, and
<http://www.annualreviews.org/doi/abs/10.1146/annurev.immunol.14.1.397?journalCode=immunol>

Beyond Diagnosis: The Essential Role of MRI in Clinical Management of Multiple Sclerosis; Calendar of Events; WFN. WFN Website;
[http://www.jns-journal.com/article/S0022-510X\(04\)00094-2/references](http://www.jns-journal.com/article/S0022-510X(04)00094-2/references)

Multiple Sclerosis is the most common BIOMARKERS OF DISEASE PROGRESSION: and increases with IFN treatment in patients who respond to therapy, suggesting that
<http://www.sciencedirect.com/science/article/pii/S1568997215001639>

The T helper cells (T h cells) are a type of T cell that play an important role in the immune system, particularly in the adaptive immune system. They help the
http://en.wikipedia.org/wiki/T_helper_cell

Scientific World Journal. 2012; 2012: 756357. Published online 2012 April 1. doi: 10.1100/2012/756357. PMID: PMC3330269. A Review: Inflammatory Process in Alzheimer
<http://www.dementiatoday.com/inflammatory-process-in-alzheimers-disease-role-of-cytokines/>

Role of Cytokines for Fibromyalgia Syndrome Pain. Cytokines such as IL-1beta, IL-6, and tumor necrosis factor-alpha (TNF-alpha) have been shown to contribute directly
http://www.medscape.com/viewarticle/470556_8

Define Cytokine: Any of a group of peptides that are released by some cells and affect the behavior of other cells, serving as intercellular signals.
<http://encyclopedia2.thefreedictionary.com/Cytokine>

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