

Necrosis

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Necrosis is the name given to accidental death of cells and living tissue. It begins with cell swelling, chromatin digestion, and disruption of the plasma membrane and organelle membranes. Late necrosis is characterized by extensive DNA hydrolysis, vacuolation of the endoplasmic reticulum, organelle breakdown, and cell lysis. The release of intracellular content after plasma membrane rupture is the cause of inflammation in necrosis. In contrast to apoptosis, cleanup of cell debris by phagocytes of the immune system is generally more difficult, as the disorderly death generally does not send cell signals which tell nearby phagocytes to engulf the dying cell. This lack of signaling makes it harder for the immune system to locate and recycle dead cells which have died through necrosis than if the cell had undergone apoptosis.



Recent Publications on Necrosis:

- [Low intensity ultrasound-induced apoptosis in human gastric carcinoma cells.](#)
*AIM: To investigate the low intensity ultrasound (US)-induced apoptosis in...*30th August, 2008
Department of Biomedical Engineering, Xi'an Jiaotong University, Xi'an- World J Gastroenterol. 2008 Aug 21;14(31):4873-9.
- [Venous sinus thrombosis leading to stroke in a patient with sickle cell disease on hydroxyurea and high hemoglobin levels: Treatment with thrombolysis.](#)
*A 21-year-old man with homozygous sickle cell disease maintained on...*30th August, 2008
Department of Radiology, American University of Beirut Medical Center,- Am J Hematol. 2008 Aug 1. ([DOI Direct Link](#))
- [Manganese-enhanced MRI of acute cardiac ischemia and chronic infarction in pig hearts: kinetic analysis of enhancement development.](#)
*To assess infarction development in pig hearts, Mn-enhanced and...*30th August, 2008
Institute for Biodiagnostics, National Research Council, Winnipeg, MB,- NMR Biomed. 2008 Aug 28. ([DOI Direct Link](#))
- [17alpha-Hydroxy-Progesterone Effects on Cervical Proinflammatory Agents in Women at Risk for Preterm Delivery.](#)
*We evaluated if the inhibitory effect of 17alpha-hydroxyprogesterone...*30th August, 2008
Unit of Obstetrics, Mother-Infant Department, University of Modena and- Am J Perinatol. 2008 Aug 28. ([DOI Direct Link](#))
- [Central photopenic lesions on FDG-PET scan in a patient with peripheral T cell lymphoma.](#)
*Central necrosis in lymphoma lesions as demonstrated in [(18)F]...*30th August, 2008
Division of Nuclear Medicine, Hospital of the University of Pennsylvania,- Ann Nucl Med. 2008 Aug;22(7):629-33. Epub 2008 Aug 29. ([DOI Direct Link](#))
- [Monocationic radiotracer kinetics and myocardial infarct size: a perfused rat heart study.](#)
*OBJECTIVE: To compare the myocardial kinetics of three...*30th August, 2008

Massachusetts General Hospital, Boston, MA, USA.- Ann Nucl Med. 2008 Aug;22(7):617-27. Epub 2008 Aug 29. ([DOI Direct Link](#))

- [Experimental pulmonary fat embolism: computed tomography and pathologic findings of the sequential changes.](#)
*This study was done to demonstrate the computed tomography (CT) and...*30th August, 2008
Department of Radiology, Korea Lung Tissue Bank, Korea University College- J Korean Med Sci. 2008 Aug;23(4):691-9. ([DOI Direct Link](#))
- [Intensity-Modulated Radiotherapy for Sinonasal Tumors: Ghent University Hospital Update.](#)
*PURPOSE: To report the long-term outcome of intensity-modulated...*30th August, 2008
Department of Radiotherapy, Ghent University Hospital, Ghent, Belgium.- Int J Radiat Oncol Biol Phys. 2008 Aug 26. ([DOI Direct Link](#))
- [Targeting the PIAS1 SUMO ligase pathway to control inflammation.](#)
*Protein sumoylation is a post-translational-modification event, in which...*30th August, 2008
Division of Hematology-Oncology, Department of Medicine, University of- Trends Pharmacol Sci. 2008 Aug 26. ([DOI Direct Link](#))
- [Vibrio necrotizing soft-tissue infection of the upper extremity: Factors predictive of amputation and death.](#)
*BACKGROUND: Vibrio necrotizing soft-tissue infection (VNSTI) is...*30th August, 2008
Department of Orthopaedic Surgery, Chang Gung Memorial Hospital at Chiayi,- J Infect. 2008 Aug 26. ([DOI Direct Link](#))
- [Novel Experimental Model of Pressure Overload Hypertrophy in Rats.](#)
*BACKGROUND: We studied a novel animal model of pressure overload...*30th August, 2008
Department of Surgery, Temple University School of Medicine, Philadelphia,- J Surg Res. 2008 May 12. ([DOI Direct Link](#))
- [Boric acid inhibits LPS-induced TNF-alpha formation through a thiol-dependent mechanism in THP-1 cells.](#)
*Oxidative stress plays an important role during inflammatory diseases and...*30th August, 2008
Department of Toxicology, Dalian Medical University, 9 Lushunnan Road,- J Trace Elem Med Biol. 2008;22(3):189-95. Epub 2008 Jun 5. ([DOI Direct Link](#))
- [Tumor necrosis factor antagonists in the therapy of psoriasis.](#)
*The identification of new pathophysiological mechanisms in chronic...*30th August, 2008
Department of Dermatology, Georg-August University, von-Siebold-Str. 3,- Clin Dermatol. 2008 Sep-Oct;26(5):486-502. ([DOI Direct Link](#))
- [Topical treatments in psoriasis: today and tomorrow.](#)
*Topical therapy in psoriasis is of use in mild cases. It is also applied...*30th August, 2008
Department of Dermatology, Academic Medical Center, University of- Clin Dermatol. 2008 Sep-Oct;26(5):432-7. ([DOI Direct Link](#))
- [Immunomodulatory effect of DDT \(bis\[4-chlorophenyl\]-1,1,1-trichloroethane\) on complement system and macrophages.](#)
*DDT (bis[4-chlorophenyl]-1,1,1-trichloroethane) is responsible for many...*30th August, 2008
Department of Biochemistry, All India Institute of Medical Science, New- Toxicology. 2008 Aug 7. ([DOI Direct Link](#))

BioNews Results for Necrosis

- [Tumor Necrosis Factor Alpha Drugs in Rheumatoid Arthritis: Systematic Review and Metaanalysis of Efficacy and](#)
Medscape: Aug 29 2008 5:10PM Matching: necrosis
- [Treating the silent, unresponsive patient](#)
Endocrine Today: Aug 25 2008 2:53PM Matching: necrosis

- [TopAbstracts in Hepatitis C 08/19/2008](#)
Doctors Guide: Aug 20 2008 3:04PM Matching: necrosis
- [Research Presented at the AHCC International Research Symposium Shows Potential Cancer Preventative Effects](#)
NPI center: Aug 19 2008 1:24PM Matching: necrosis
- [Washington University School of Medicine: How cells die determines whether immune system mounts response](#)
NewsRX: Aug 14 2008 1:50AM Matching: necrosis
- [Mesh Plug Inguinal Herniorrhaphy and Ureteral Necrosis After Kidney Transplantation](#)
Transplantation: Aug 13 2008 11:15AM Matching: necrosis
- [Data on life sciences discussed by researchers at Memorial Sloan Kettering Cancer Center](#)
NewsRX: Aug 11 2008 4:05AM Matching: necrosis
- [Management of Pressure Ulcers](#)
Consultant Live: Aug 10 2008 9:00AM Matching: necrosis
- [XOMA Reports Second Quarter 2008 Financial Results](#)
Pharma Live: Aug 8 2008 5:18PM Matching: necrosis
- [Healthwatch- Plastic surgery dangers](#)
KRCG Online: Aug 8 2008 3:09AM Matching: necrosis
- [University of California - San Diego: Discovery of a new signaling mechanism may lead to novel anti-inflammato](#)
NewsRX: Aug 7 2008 8:11PM Matching: necrosis
- [Osteoporosis Drugs: Not What They Are Cracked Up To Be](#)
Chiropractic Economics: Aug 2 2008 8:59AM Matching: necrosis
- [EULAR 2008: Rheumatoid Arthritis Disease and Antitumor Necrosis Factor Therapy](#)
Abstracts in Hematology and Oncology: Aug 2 2008 1:12AM Matching: necrosis
- [UK Judge issues biotech patent principles](#)
Managing IP: Aug 1 2008 9:43PM Matching: necrosis
- [TopAbstracts in Leukemias 07/30/2008](#)
Doctors Guide: Aug 1 2008 2:32PM Matching: necrosis

Necrosis Clinical Trials:



- [A Study to Evaluate the Ability of TNFR:Fc to Decrease the Amount of IL-6 \(Interleukin-6\) and TNF-Alpha \(Tumor Necrosis Factor\) in HIV-Infected Patients](#)
HIV Infections

Necrosis Patents:



- 7416723- [Therapeutic compositions and methods useful in modulating protein tyrosine phosphatases](#)
- 7416854- [Luminogenic and nonluminogenic multiplex assay](#)
- 7416855- [Immunoassay methods for detecting interleukin-1 .beta. converting enzyme like apoptosis protease-3](#)
- 7416857- [Differential diagnosis with hepcidin](#)
- 7416858- [Pharmaceutical compositions of glycoconjugates](#)
- 7416877- [Receptor that causes cell death and recombinant production thereof](#)
- 7416881- [Yeast cells engineered to produce pheromone system protein surrogates, and uses therefor](#)
- 7416885- [Proliferated cell lines and uses thereof](#)
- 7417023- [Targeted delivery of bioaffecting compounds for the treatment of cancer](#)
- 7417029- [Prodrug of an ice inhibitor](#)
- 7417031- [Use of algae-derived physiologically active substances for treating a carcinomatous disease](#)
- 7416853- [Lipoprotein associated phospholipase A2, inhibitors thereof and use of the same in diagnosis and therapy](#)
- 7416848- [DNA encoding SNORF25 receptor](#)
- 7416727- [Polypeptide variants with altered effector function](#)
- 7416728- [Growth blocking agents](#)
- 7416729- [Methods of treating rheumatoid arthritis with anti-TNF antibodies](#)
- 7416730- [Derivatives of the IL-2 receptor gamma chain, their production and use](#)
- 7416741- [Copper lowering treatment of inflammatory and fibrotic diseases](#)
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- 7416745- [Preventives or remedies for infection, anti-endotoxin agents, vaccine adjuvants and growth promoters](#)
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- 7417183- [Plants and seeds of hybrid corn variety CH654387](#)
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- 7418169- [Apparatus for controlling at least one of at least two sections of at least one fiber](#)
- 7417123- [PRO4399 Antibodies](#)
- 7417121- [Human G-protein coupled receptor, HGPRBMY39](#)
- 7417037- [Compositions and methods of treatment for inflammatory diseases](#)
- 7417038- [Methods of treating cachexia](#)
- 7417040- [Fused tricyclic compounds as inhibitors of 17.beta.-hydroxysteroid dehydrogenase 3](#)
- 7417058- [Pharmaceutically active benzulfonamide derivatives as inhibitors of protein jankinases](#)
- 7417059- [Substituted aromatic-ring compounds, process for producing the same and use](#)
- 7417069- [Halogenated triptolide derivatives as immunomodulators and anticancer agents](#)
- 7417072- [Blockade of Pin1 prevents cytokine production by activated immune cells](#)
- 7417113- [PSCA: prostate stem cell antigen and uses thereof](#)
- 7417115- [PRO6027 polypeptides](#)
- 7417116- [PRO7155 polypeptides](#)
- 7418292- [Device and method for attenuating an immune response](#)

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