

Immunophenotyping

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Immunophenotyping is a technique used to study the protein expressed by cells. This technique is commonly used in basic science research and laboratory diagnostic purpose. This can be done on tissue section, cell suspension, etc. An example is the diagnosis of leukemia. It involves the labelling of white blood cells with antibodies directed against surface proteins on their membrane. By choosing appropriate antibodies, the differentiation of leukemic cells can be accurately determined. The labelled cells are processed in a flow cytometer, a laser-based instrument capable of analyzing thousands of cells per second. The whole procedure can be performed on cells from the blood, bone marrow or spinal fluid in a matter of a few hours. An Example of Information provided through Immunophenotyping "The flow cytometric immunophenotyping report indicated the malignant cells were positive for CD19, CD10, dimCD20, CD45, HLA-DR, and κ immunoglobulin light chain. There was no coexpression of CD5 or CD23 by the monoclonal B-cell population."

Recent Publications on Immunophenotyping:



- [Immunophenotyping of acute lymphoblastic leukemia using immunohistochemistry in bone marrow biopsy specimens.](#)
Flow cytometry is the preferred method of diagnosing and immunophenotyping... 21st August, 2008
Section of Hematopathology, Department of Pathology, College of Medicine,- Histol Histopathol. 2008 Oct;23(10):1223-8.
- [CD133-2 \(AC141\) expression analysis in acute leukemia immunophenotyping in correlation to CD34 and P-glycoprotein.](#)
A total of 49 newly diagnosed patients with acute leukemia were studied in... 16th August, 2008
Laboratory of Cytopathology and Histopathology, National Center of- Hematology. 2008 Jun;13(3):137-41. ([DOI Direct Link](#))
- [Novel IGHalpha translocations, t\(2;14\)\(q14.3;q32\) and t\(14;17\)\(q32;q21\), in B-cell precursor acute lymphoblastic leukemia.](#)
Fluorescence intensity (FI) is the basis for classifying phenotypes by... 16th August, 2008
- Cancer Genet Cytogenet. 2008 Aug;185(1):57-9. ([DOI Direct Link](#))
- [CpG increases vaccine antigen-specific cell-mediated immunity when administered with hepatitis B vaccine in HIV infection.](#)
ABSTRACT: BACKGROUND: Lack of adequate adjuvancy is a possible explanation... 14th August, 2008
- J Immune Based Ther Vaccines. 2008 Aug 12;6(1):4. ([DOI Direct Link](#))
- [Lymphoepitelioma-like hepatocellular carcinoma: A case report and a review of the literature.](#)
Lymphoepitelioma is a particular form of undifferentiated carcinoma,... 14th August, 2008
Department of Cytomorphology, Section of Pathology, Univeristy of- World J Gastroenterol. 2008 Aug

- 7;14(29):4694-6.
- [Flow cytometry immunophenotyping in mycosis fungoides.](#)
*Lymphoepitelioma is a particular form of undifferentiated carcinoma,...*13th August, 2008
- J Am Acad Dermatol. 2008 Sep;59(3):533-4. ([DOI Direct Link](#))
 - [An online decision support system for diagnosing hematopoietic malignancies by flow cytometry immunophenotyping.](#)
*An online decision support system for hematopoietic neoplasm based on...*13th August, 2008
Cedars-Sinai Med CTR.- AMIA Annu Symp Proc. 2007 Oct 11:1084.
 - [Novel systemic markers for patients with Alzheimer disease? - a pilot study.](#)
*Almost 2% of the population of western industrialized countries are...*12th August, 2008
Anatomy and Developmental Biology, Medical Faculty Mannheim, University of- Curr Alzheimer Res. 2008 Aug;5(4):358-66.
 - [\[The role of bone marrow cells immunophenotypic study by flow cytometry in diagnosing myelodysplastic syndrome\]](#)
*Myelodysplastic syndromes are a heterogeneous group of clonal bone marrow...*9th August, 2008
Katedra i Klinika Hematologii i Chorob Rozrostowych Ukladu Krwiotworczego- Postepy Hig Med Dosw (Online). 2008 Jul 23;62:354-63.
 - [Bone Marrow-Derived Mesenchymal Stromal Cells Express Cardiac-Specific Markers, Retain the Stromal Phenotype and do not Become Functional Cardiomyocytes In Vitro.](#)
*Although bone marrow-derived mesenchymal stromal cells (MSCs) may be...*9th August, 2008
Departments of Physiology and Medicine, Heart and Stroke/Richard Lewar- Stem Cells. 2008 Aug 7. ([DOI Direct Link](#))
 - [A unique case of mantle cell lymphoma with an aberrant CD5-/CD10+ immunophenotype and typical morphology.](#)
*Mantle cell lymphoma (MCL) is a non-Hodgkin lymphoma with a poor prognosis...*8th August, 2008
Department of Pathology and Laboratory Medicine, Mount Sinai Medical- Arch Pathol Lab Med. 2008 Aug;132(8):1346-9.
 - [\[Primary natural killer/T cell lymphoma of the lung: two cases report and clinical analysis\]](#)
*OBJECTIVE: To describe the clinical and pathological features of primary...*8th August, 2008
Department of Respiratory Medicine, The Affiliated Drum Tower Hospital,- Zhonghua Jie He He Hu Xi Za Zhi. 2008 Feb;31(2):120-4.
 - [Generation and characterization of novel local and metastatic human neuroblastoma variants.](#)
*Neuroblastoma (NB) is the most commonly occurring solid tumor in children....*8th August, 2008
Department of Cell Research and Immunology, George S Wise Faculty of Life- Neoplasia. 2008 Aug;10(8):816-27.
 - [\[Clinicopathologic study of hepatosplenic T-cell lymphoma.\]](#)
*OBJECTIVE: To explore the clinicopathologic features and diagnostic...*5th August, 2008
Department of Pathology, Peking University First Hospital, Beijing 100034,- Beijing Da Xue Xue Bao. 2008 Aug 18;40(4):387-91.
 - [Quantitative identification of blood cell markers in human hematopoietic malignancies with diagnostic and prognostic significance.](#)
*Fluorescence intensity (FI) is the basis for classifying phenotypes by...*31st July, 2008
- Neoplasma. 2008;55(5):381-6.

BioNews Results for Immunophenotyping

- [Bronchial response pattern of antigen presenting cells and regulatory T cells in children less than 2 years of](#)
British Journal of the Thorax: Jul 28 2008 5:10PM Matching: immunophenotyping

Immunophenotyping Clinical Trials:



- [Treatment With Nelfinavir or Efavirenz of HIV-Infected Patients Who Have Never Received Anti-HIV Drugs](#)
HIV Infections

Immunophenotyping Patents:



- 7304141- [Human leucine-rich repeat containing protein expressed predominately in bone marrow, HLRRBM1](#)
- 7345148- [Human G-protein coupled receptor, HGPRBMY29sv1 polypeptides](#)
- 7348003- [Methods of treating cancer using antibodies that immunospecifically bind to TRAIL receptors](#)
- 7348149- [Methods of diagnosing Parkinson's disease by measuring expression level of RNA encoding human protein HLLRCR-1](#)
- 7351589- [Products and methods for single parameter and multiparameter phenotyping of cells](#)
- 7354584- [Recombinant IL-9 antibodies](#)
- 7354773- [Method and apparatus for preparing cell samples for intracellular antigen detection using flow cytometry](#)
- 7358074- [Human phosphatase RET31, and variants thereof](#)
- 7361341- [Methods of treating cancer using antibodies that immunospecifically bind to trail receptors](#)
- 7361479- [Assay](#)
- 7364906- [Products and methods for single parameter and multiparameter phenotyping of cells](#)
- 7344882- [Polynucleotides encoding variants of the TRP channel family member, LTRPC3](#)
- 7344860- [Polynucleotide encoding a novel human P2X7 splice variant, HBMYP2X7v](#)
- 7339032- [Human relaxin receptor HGPRBMY5v1](#)
- 7306921- [Diagnostic and monitoring methods for cancer](#)
- 7308364- [Diagnosis of multiple myeloma on gene expression profiling](#)
- 7309779- [Antibodies directed to the testis-specific tubulin tyrosine-ligase-like protein, BGS42](#)
- 7312051- [Polynucleotides encoding dendritic enriched secreted lymphocyte activation molecule](#)
- 7312085- [Microfluidic particle-analysis systems](#)
- 7312086- [Methods of diagnosing colon adenocarcinoma using the human g-protein coupled receptor hgprbmy23](#)
- 7324926- [Methods for predicting chemosensitivity or chemoresistance](#)
- 7326577- [Cell fixation and use in phospho-proteome screening](#)
- 7326781- [Polynucleotides encoding the human citron kinase polypeptide, BMSNKC.sub.--0020/0021](#)
- 7336812- [System for microvolume laser scanning cytometry](#)
- 7365184- [B. anthracis prevention and treatment: mutant B. anthracis lacking luxS activity and furanone inhibition of growth, AI-2 quorum sensing, and toxin production](#)
- 7368244- [Peptidoglycan recognition proteins](#)
- 7381800- [Antibodies to HBIMF63 polypeptide](#)

- 7390637- [Keratinocyte derived interferon](#)
- 7393934- [Human G-protein chemokine receptor \(CCR5\) HDGNR10](#)
- 7402312- [Antibodies to vascular endothelial growth factor 2 \(VEGF-2\)](#)
- 7402317- [Anti-cancer vaccine](#)
- 7405060- [Gene amplification methods](#)
- 7405076- [Generation and use of dendritic cells](#)
- 7408041- [Polypeptides and antibodies derived from chronic lymphocytic leukemia cells and uses thereof](#)
- 7410773- [Method of preparing an undifferentiated cell](#)
- 7411051- [Antibodies to HDPPA04 polypeptide](#)
- 7381710- [Combined DNA vaccine and biological modifiers for cancer therapy](#)
- 7375192- [Antibodies that specifically bind to chemokine beta-4](#)
- 7371822- [Human G-protein coupled receptor variant of HM74, HGPRBMY74](#)
- 7368245- [Method and probes for the detection of chromosome aberrations](#)
- 7368527- [HADDE71 polypeptides](#)
- 7368531- [Human secreted proteins](#)
- 7368554- [Polynucleotides encoding BSL2v1c2-Ig](#)
- 7369696- [Classification of cells into subpopulations using cell classifying data](#)
- 7371381- [Anti-galanin antibodies and uses thereof](#)
- 7371383- [Recombinant anti-interleukin-9 antibodies](#)
- 7371388- [Treatment of Sjogren's syndrome by administration of TR18 polypeptides](#)
- 7371517- [High purity X-chromosome bearing and Y-chromosome bearing populations of spermatozoa](#)
- 7371736- [Gene expression profiling based identification of DKK1 as a potential therapeutic targets for controlling bone loss](#)
- 7413862- [FRET probes and methods for detecting interacting molecules](#)

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