

Title (en)
MARKERS OF BLOOD BARRIER PERMEABILITY AND METHODS OF USING SAME

Title (de)
MARKER FÜR DIE PERMEABILITÄT DER BLUTBARRIERE UND VERFAHREN ZU IHRER VERWENDUNG

Title (fr)
MARQUEURS DE LA PERMEABILITE DE LA BARRIERE SANGUINE ET LEURS METHODES D'UTILISATION

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Application
EP 03816193 A 20030612

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Abstract (en)
[origin: WO2004078204A1] The present invention relates generally to a peripheral marker or markers of blood barrier integrity and methods of using same in the diagnosis, prognosis, and treatment of a variety of diseases. The peripheral marker(s) of the present invention are particularly useful in the differential diagnosis of diseased states. The preferred embodiments of the present invention relate to methods, compositions, kits and assays useful in determining the integrity or permeability of either a blood CSF barrier or a blood brain barrier. The various embodiments of the present invention can be used to identify subjects at risk for developing a disease associated with increased permeability of the blood brain barrier, as well as to provide insight on the ability of an agent or agents to pass through the blood brain barrier. Embodiments of the present invention preferably involve the use of subject derived blood samples to determine the occurrence and level of circulating proteins indicative of blood brain barrier permeability or integrity. The embodiments of the present invention also provides screening methods for diagnosis, prognosis, susceptibility, or degree of permeability of penetration of the blood brain barrier by detecting the presence of serum Transthyretin either directly or through the use of antibodies.

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Citation (search report)
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• [A] HIRAOKA A ET AL: "Sodium dodecylsulfate capillary gel electrophoretic measurement of the concentration ratios of albumin and alpha2-macroglobulin in cerebrospinal fluid and serum of patients with neurological disorders", JOURNAL OF CHROMATOGRAPHY, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 895, no. 1-2, 20 October 2000 (2000-10-20), pages 339 - 344, XP004217511, ISSN: 0021-9673
• [A] HAMILTON J A ET AL: "Transthyretin: A review from a structural perspective", CMLS CELLULAR AND MOLECULAR LIFE SCIENCES, vol. 58, no. 10, September 2001 (2001-09-01), pages 1491 - 1521, XP009054580, ISSN: 1420-682X
• [PA] JANIGRO D ET AL: "MARKERS OF BBB DAMAGE AND INFLAMMATORY PROCESS.", SOCIETY FOR NEUROSCIENCE ABSTRACT VIEWER AND ITINERARY PLANNER, vol. 2002, 2002, & 32ND ANNUAL MEETING OF THE SOCIETY FOR NEUROSCIENCE; ORLANDO, FLORIDA, USA; NOVEMBER 02-07, 2002, pages Abstract No. 580.9 URL, XP009054609
• See references of WO 2004078204A1

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