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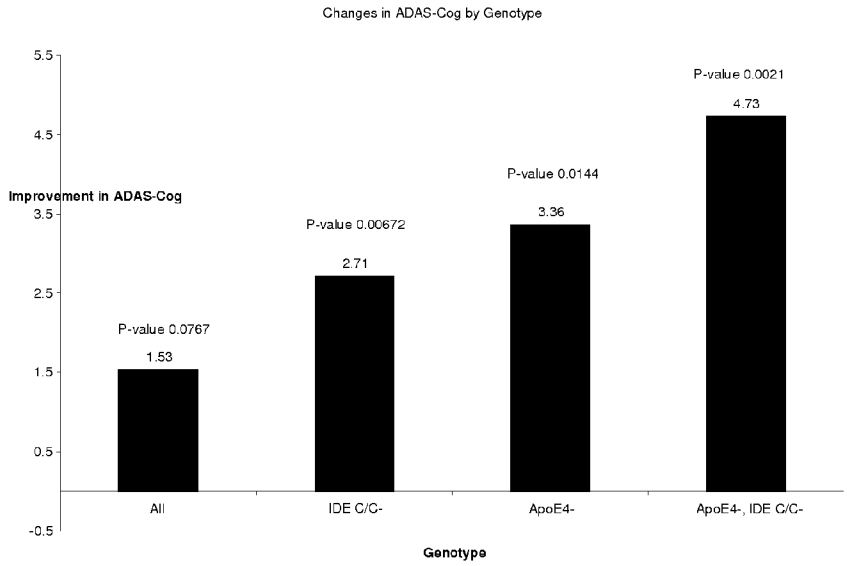
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[Continued on next page]

(54) Title: USE OF GENOMIC TESTING AND KETOGENIC COMPOUNDS FOR TREATMENT OF REDUCED COGNITIVE FUNCTION

Figure 1: Interaction between IDE and APOE Polymorphisms



(57) Abstract: Methods of using genotyping to select patients for treatment with compounds capable of elevating ketone body concentrations in amounts effective to treat reduced neuronal metabolism associated with reduced neuronal metabolism are disclosed. Conditions include Alzheimer's disease, Parkinson's Disease, Friedreich's Ataxia, GLUTI-deficient Epilepsy, Leprechaunism, and Rabson- Mendenhall Syndrome, Coronary Arterial Bypass Graft, dementia, anesthesia-induced memory loss, and Huntington's Disease.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G01N 33/48; A61K 31/12 (2008.04)
USPC - 436/63; 514/675
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO(Patents);Google Scholar
Search Terms: genotyping, ketone, reduced neuronal metabolism, Alzheimer's, Parkinson's

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,835,750 B1 (Henderson) 28 December 2004 (28.12.2004), entire document especially Fig 2 and col 3, ln 1-4; col 5, ln 5-11; col 10, ln 5-12,55-64; col 11, ln 30-41; col 12, ln 63-67; col 13, ln 35-42; col 14, ln 7-16,58-60; col 15, ln 33-36,46-65; col 16, ln 49-52; col 17, ln 38-45.	1 - 11
A	US 7,087,649 B2 (Barth et al.) 08 August 2006 (08.08.2006), entire document.	1 - 11
A	US 2006/0134240 A1 (Miljkovic et al.) 22 June 2006 (22.06.2006), entire document.	1 - 11

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774