

Working embodiments of the invention used the all of above materials at a variety of concentration levels for in-vitro experiments and, using a 500 mM solution of barbituric acid, in an in-vivo rabbit model.

The method of the present invention is useful for enhancing the contrast of MRI images, including images produced in vivo, using CEDST.

A second feature of the present invention involved identifying contrast agents which contained the functional groups which could be used, either alone or in combination, to function effectively at performing pH measurement using CEDST in vivo.

Working embodiments of this feature of the invention used either dihydrouracil or a combination solution of 5-Hydroxytryptophan and 2-Imidazolidinethione as the contrast agent, which was provided as an aqueous composition having about 62.5 mM of each chemical in the solution. Other chemicals with more than one chemical exchange site or mixtures of other contrast agents may also be used to practice the second feature of the present invention. A standard pH curve is prepared by performing in vitro CEDST MRI analyses of the contrast agent, which is then used to evaluate the in vivo pH measurement results.

A third feature of the present invention involved identifying contrast agents which contained the functional groups which could be used to function effectively at performing temperature measurement using CEDST in vivo.

Working embodiments of this feature of the invention used barbituric acid as the contrast agent, which was provided as an aqueous composition having about 62.5 mM of chemical in the solution. Other chemicals may be used to practice the third feature of the present invention. A standardized temperature curve is prepared performing in vitro CEDST MRI analyses of the contrast agent, which is then used to evaluate the in vivo temperature results.

A fourth feature of the present invention involved identifying contrast agents which contained the function groups which could be used to function effectively at measuring a metabolite of interest using CEDST in vivo.

Working embodiments of this feature of the invention used dihydrouracil as the contrast agent, which was provided as an aqueous composition having about 62.5 mM with phosphate as the metabolite of interest. Other chemicals may be used to practice the third feature of the present invention. A standardized metabolite curve is prepared performing in vitro CEDST MRI analyses of the

contrast agent, which is then used to evaluate the in vivo metabolite results.

Dated: May 3, 2004.

Steven M. Ferguson,

Director, Division of Technology Development and Transfer, Office of Technology Transfer, National Institutes of Health.

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Cancer Institute; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. Appendix 2), notice is hereby given of the following meeting.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

Name of Committee: National Cancer Institute Initial Review Group, Subcommittee H—Clinical Groups.

Date: July 6-7, 2004.

Time: 4 p.m. to 5 p.m.

Agenda: To review and evaluate grant applications.

Place: Hilton Houston Plaza, 6633 Travis Street, Houston, TX 77030.

Contact Person: Deborah R. Jaffe, PhD., Scientific Review Administrator, Resources and Training Review Branch, National Cancer Institute, Division of Extramural Activities, 6116 Executive Blvd., Rm 8135, Bethesda, MD 20892, (301) 496-7721, jaffed@mail.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.392, Cancer Construction; 93.393, Cancer Cause and Prevention Research; 93.394, Cancer Detection and Diagnosis Research; 93.395, Cancer Treatment Research; 93.396, Cancer Biology Research; 93.397, Cancer Centers Support; 93.398, Cancer Research Manpower; 93.399, Cancer Control, National Institutes of Health, HHS)

Dated: April 30, 2004.

LaVerne Y. Stringfield,

Director, Office of Federal Advisory Committee Policy.

[FR Doc. 04-10493 Filed 5-7-04; 8:45 am]

BILLING CODE 4140-01-M

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Mental Health; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. Appendix 2), notice is hereby given of the following meeting.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The contract proposals and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the contract proposals, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

Name of Committee: National Institute of Mental Health Special Emphasis Panel, Molecular Libraries Repository RFP.

Date: May 17, 2004.

Time: 8 a.m. to 5 p.m.

Agenda: To review and evaluate contract proposals.

Place: Four Points by Sheraton Bethesda, 8400 Wisconsin Avenue, Bethesda, MD 20814.

Contact Person: Lois M. Winsky, PhD, Scientific Review Administrator, Division of Extramural Activities, National Institute of Mental Health, NIH, Neuroscience Center, 6001 Executive Blvd., Room 7184, MSC 9641, Bethesda, MD 20892-9641, (301) 443-5288 twinsky@mail.nih.gov.

This notice is being published less than 15 days prior to the meeting due to the timing limitations imposed by the review and funding cycle.

(Catalogue of Federal Domestic Assistance Program Nos. 93242, Mental Health Research Grants; 93.281, Scientist Development Award, Scientist Development Award for Clinicians, and Research Scientist Award; 93.282, Mental Health National Research Service Awards for Research Training, National Institutes of Health, HHS)

Dated: April 30, 2004.

LaVerne Y. Stringfield,

Director, Office of Federal Advisory Committee Policy.

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