

similar alkyltransferase inactivator, O<sup>6</sup>-(4-bromothienyl) guanine is in clinical trials in the UK.

This technology is directed to the discovery of a new class of potent alkyltransferase inactivators, 2-amino-O<sup>4</sup>-benzylpteridine derivatives targeted for use in cancer treatment in combination with chemotherapeutic agents such as 1, 3-bis (2-chloroethyl)-1-nitrosurea (BCNU) or temozolomide. The derivatives of the present invention inactivate the O<sup>6</sup>-alkylguanine-DNA-alkyltransferase repair protein and thus enhance activity of such chemotherapeutic agents. Some of the derivatives are water soluble and possess tumor cell selectivity in particular by inactivating alkyltransferase in tumor cells that overexpress folic acid receptors. The 2-amino-O<sup>4</sup>-benzylpteridine derivatives represent a promising new class of alkyltransferase inactivator with representatives that may be great candidates as chemotherapy adjuvants.

*Applications and Modality:*

- New small molecules as alkyltransferase inactivators based on 2-amino-O<sup>4</sup>-benzylpteridine compounds.
- Promising candidates as chemotherapy adjuvants for the treatment of cancer.
- Therapeutic application for drug resistant tumors where acquired resistance is caused by O<sup>6</sup>-alkylguanine-DNA alkyltransferase.

*Market:*

- 600,000 deaths from cancer related diseases estimated in 2006.
- This technology involving small molecule therapeutics for the treatment of several cancers has a potential market of several billion U.S. dollars.

*Development Status:* The technology is currently in the pre-clinical stage of development.

*Inventors:* Robert C. Moschel (NCI) *et al.*

*Publication:* ME Nelson, NA Loktionova, AE Pegg, RC Moschel. 2-amino-O<sup>4</sup>-benzylpteridine derivatives: Potent inactivators of O<sup>6</sup>-alkylguanine-DNA alkyltransferase. *J Med Chem.* 2004 Jul 15;47(15):3887–3891.

*Patent Status:*

- U.S. Patent Application No. 10/585,566 filed 29 Aug 2006, claiming priority to 06 Jan 2004 (HHS Reference No. E-274-2003/0-US-03).

- Foreign equivalents

*Licensing Status:* Available for exclusive or non-exclusive licensing.

*Licensing Contact:* Adaku Nwachukwu, J.D.; 301-435-5560; [madua@mail.nih.gov](mailto:madua@mail.nih.gov).

Dated: August 26, 2008.

**Richard U. Rodriguez,**

*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

#### Eunice Kennedy Shriver National Institute of Child Health & Human Development; 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 Institute of Child Health and Human Development Special Emphasis Panel EARDA.

*Date:* October 3, 2008.

*Time:* 9 a.m. to 3 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6100 Executive Boulevard, 4B01 CRMC, Rockville, MD 20852.

*Contact Person:* Michele C. Hindi-Alexander, PhD, Division of Scientific Review, National Institutes of Health, Eunice Kennedy Shriver National Institute for Child Health & Development, 1600 Executive Boulevard, 5B01, Bethesda, MD 20812-7510, (301) 435-8382, [hindialm@mail.nih.gov](mailto:hindialm@mail.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.864, Population Research; 93.865, Research for Mothers and Children; 93.929, Center for Medical Rehabilitation Research; 93.209, Contraception and Infertility Loan Repayment Program, National Institutes of Health, HHS)

Dated: August 28, 2008.

**Jennifer Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### Eunice Kennedy Shriver National Institute of Child Health & Human Development; Notice of Closed Meeting

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*Name of Committee:* National Institute of Child Health and Human Development Special Emphasis Panel; The Role of Human Milk in Infant Nutrition and Health.

*Date:* October 7, 2008.

*Time:* 2 a.m. to 5 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6100 Executive Boulevard, 5B01, Rockville, MD 20852 (Telephone Conference Call).

*Contact Person:* Rita Anand, PhD, Scientific Review Administrator, Division of Scientific Review, National Institute of Child Health and Human Development, NIH, 6100 Executive Blvd, Room 5B01, Bethesda, MD 20892, (301) 496-1487, [anandr@mail.nih.gov](mailto:anandr@mail.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.864, Population Research; 93.865, Research for Mothers and Children; 93.929, Center for Medical Rehabilitation Research; 93.209, Contraception and Infertility Loan Repayment Program, National Institutes of Health, HHS)

Dated: August 28, 2008.

**Jennifer Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

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