DEPARTMENT OF HEALTH AND HUMAN SERVICES

Notification of Charter Renewal:
National Preparedness and Response Science Board (Previously Known as the National Biodefense Science Board)

AGENCY: Office of the Secretary, Department of Health and Human Services.

ACTION: Notice.

SUMMARY: The Secretary of the Department of Health and Human Services has renewed the charter of the National Preparedness and Response Science Board (NPRSB), previously known as the National Biodefense Science Board, for an additional two-year period through July 3, 2016.

FOR FURTHER INFORMATION CONTACT: Please submit any inquiries to CAPT Charlotte Spires, DVM, MPH, DACVPM, Executive Director and Designated Federal Official, National Preparedness and Response Science Board, Office of the Assistant Secretary for Preparedness and Response, U.S. Department of Health and Human Services, Thomas P. O’Neill Federal Building, Room number 14F18, 200 C St. SW., Washington, DC 20024; Office: 202–260–0627, Email address: charlotte.spires@hhs.gov.

SUPPLEMENTARY INFORMATION: As stipulated by the Federal Advisory Committee Act (FACA), 5 U.S.C. App. 2 Section 9(c), the U.S. Department of Health and Human Services is hereby giving notice of the renewal of the NPRSB charter for an additional two-year period. The Board shall provide expert advice and guidance to the Secretary on scientific, technical, and other matters of special interest to the Department of Health and Human Services regarding current and future chemical, biological, nuclear, and radiological agents, whether naturally occurring, accidental, or deliberate. The Board may also provide advice and guidance to the Secretary on other matters related to public health emergency preparedness and response.

Dated: June 13, 2014.

Nicole Lurie,
Assistant Secretary for Preparedness and Response.

[FR Doc. 2014–14628 Filed 6–23–14; 8:45 am]
BILLING CODE 4150–37–P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Center for Advancing Translational Sciences (NCATS):
Cooperative Research and Development Agreement (CRADA) and Licensing Opportunity for Small Molecule Inhibitors of the Human USP1/UAF1 Complex(1) for the Treatment of Cancer

SUMMARY: The National Center for Advancing Translational Sciences (NCATS) and its collaborator, the University of Delaware, are seeking Cooperative Research and Development Agreement (CRADA) partners to collaborate in the final stages of lead optimization, evaluation and preclinical development of a novel series of selective and potent small-molecule inhibitors of the human USP1/UAF1 complex(1) for the treatment of cancer. Interested potential CRADA partners will receive detailed information about the project after signing a confidential disclosure agreement (CDA) with NCATS and University of Delaware.

DATES: Interested candidate partners must submit a statement of interest and capability to the NCATS point of contact before July 24, 2014 for consideration. Guidelines for the preparation of a full CRADA proposal will be communicated shortly thereafter to all respondents with whom initial confidential discussions will have established sufficient mutual interest. CRADA applications submitted after the due date may be considered if a suitable CRADA collaborator has not been identified by NIH and its collaborator, the University of Delaware, among the initial pool of respondents. Licensing of background technology related to this CRADA opportunity is also available to potential collaborators.

ADDRESSES: Questions about licensing opportunities of related background technology should be addressed to Jenny Wong, M.S., Senior Licensing and Patenting Manager, Office of Technology Transfer, NIH, 6011 Executive Boulevard, Suite 325, Rockville, Maryland 20852–3804, Telephone: (301) 435–4633; Email: wongje@mail.nih.gov. Respondents interested in licensing will be required to submit an “Application for License to Public Health Service Inventions.” An executed CDA will be required to receive copies of the patent applications.

FOR FURTHER INFORMATION CONTACT: For further details of this CRADA opportunity and statement of interest please contact Lili Portilla, M.P.A., Director of Strategic Alliances, National Center for Advancing Translational Sciences, NIH, 9800 Medical Center Drive, Room 311, Rockville, MD 20850; Telephone (301) 217–2589; Email: Liliportilla@nih.gov or Dr. Krishna Balakrishnan, Senior Technology Transfer Manager, NCATS, Telephone: (301) 217–2336; Email: balakrish@nih.gov.

SUPPLEMENTARY INFORMATION: Ubiquitin-specific proteases (USPs) have in recent years emerged as a promising therapeutic target class in the ubiquitin-proteasome system (UPS). Velcade® (bortezomib), a small molecule proteasome inhibitor, has established the ubiquitin-proteasome system as a valid target for anticancer treatment. However, proteasome inhibitors in general suffer from a narrow therapeutic index and acquired resistance. A promising alternative to proteasome inhibition has been to target the enzymes upstream of proteasome-mediated protein degradation, i.e. the ubiquitin ligases and deubiquitinating enzymes (DUBs), to generate more specific, less toxic therapeutic agents.

The advantage of inhibiting DUB lies in the specificity of therapeutic intervention that can lead to better efficacy and reduced side effects. It has become clear that the DUB activities are indispensable for the normal cellular functions. Abnormal cellular expression of DUBs or the loss of function due to mutation in certain DUB genes have been linked to various human diseases(2, 3). Among the five DUB subfamilies, ubiquitin-specific protease (USP) is emerging as promising therapeutic target class in the ubiquitin-proteasome system because of their connection to many human diseases, including prostate, colon and breast cancer, pediatric acute lymphoblastic leukemia, and familial cylindromatosis(2, 4). From the past successes in targeting proteases with small molecule antagonists, it is expected that efforts of targeting human USPs will lead to potent and specific therapeutic agents.

The human ubiquitin-specific protease 1 (or USP1) occupies a special position because it has been implicated in DNA damage response in higher vertebrates and humans. Previous studies showed that disruption of USP1 in chicken DT40 cells resulted in increased sensitivity to DNA crosslinkers(5) and knockout of the murine USP1 gene in a mouse model resulted in hypersensitivity to mitomycin C(6). Previously we have demonstrated that inhibiting the cellular activity of human USP1 by
pharmacologically active small molecules sensitized cisplatin-resistant non-small cell lung cancer (NSCLC) cells to DNA crosslinking agent(77). Thus, USP1 inhibitors hold promise in combination therapy with the existing anti-cancer drugs to improve the efficacy and lower the toxic effect of the existing drugs.

More recently we have developed small molecules that target the USP1/ UAF1 DUB complex(1). These compounds were identified via a high-throughput screen and subjected to medicinal chemistry optimization, leading to one of the most potent and selective DUB inhibitors reported to date. Moreover, the inhibitors act synergistically with cisplatin, a DNA damaging anti-cancer drug, to overcome chemoresistance and enhance cytotoxicity. These results suggest the inhibitors may also improve the efficacy and potency of other commonly prescribed chemotherapeutic agents that are known to induce DNA damage. Furthermore the USP1/UAF1 small molecule inhibitors also hold promise in the single-agent therapy.

Under the CRADA, the chemical series will be further characterized and optimized to address specific aspects of this target product profile. The CRADA scope will also include studies beyond candidate selection including all aspects of preclinical studies such as toxicity studies, xenograft studies and chemistry GMP scale up of selected compounds and manufacture of control leading to a successful investigational new drug (IND) application. Collaborators should have experience in preclinical development of small molecules with a focus on cancer and a track record of successful submission of IND applications to the FDA.

The full CRADA proposal should include a capability statement with a detailed description of (1) collaborator’s expertise in the areas of modulation of small molecule physicochemical and pharmacokinetic properties; (2) expertise in formulation of small molecules and ability to manufacture sufficient quantities of chemical compounds according to FDA guidelines and under Good Manufacturing Practice (GMP); (3) expertise with oncology and/or other diseases which may benefit from USP1/UAF1 inhibition; (4) expertise in regulatory affairs, particularly at the IND filing and early clinical trial stages; (5) collaborator’s ability to support, directly or through contract mechanisms, and ability, upon the successful completion of relevant applications, to support the ongoing pharmacokinetics and biological studies, long term toxicity studies, process chemistry and other pre-clinical development studies needed to obtain regulatory approval of a given molecule so as to ensure a high probability of eventual successful commercialization; (6) collaborator’s ability to provide adequate funding to support some of the project’s pre-clinical studies.

**Publications**


**Patent Status**


Dated: June 12, 2014.

Christopher P. Austin, Director, National Center for Advancing Translational Sciences, National Institutes of Health.

[PR Doc. 2014–14719 Filed 6–23–14; 8:45 am]

**DEPARTMENT OF HEALTH AND HUMAN SERVICES**

**National Institutes of Health**

**Government-Owned Inventions; Availability for Licensing**

**AGENCY:** National Institutes of Health, HHS.

**ACTION:** Notice.

**SUMMARY:** The inventions listed below are owned by an agency of the U.S. Government and are available for licensing in the U.S. in accordance with 35 U.S.C. 201 and 37 CFR Part 404 to achieve expeditious commercialization of results of federally-funded research and development. Foreign patent applications are filed on selected inventions to extend market coverage for companies and may also be available for licensing.

**FOR FURTHER INFORMATION CONTACT:** Licensing information and copies of the U.S. patent applications listed below may be obtained by writing to the indicated licensing contact at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, Rockville, Maryland 20852–3804; telephone: 301–496–7057; fax: 301–402–0220. A signed Confidential Disclosure Agreement will be required to receive copies of the patent applications.

**SUPPLEMENTARY INFORMATION:** Technology descriptions follow.

AMA1–RON2 Complex-Based Vaccine Against Malaria

**Description of Technology:** This technology relates to a malaria vaccine composed of a protein complex of Apical Membrane Antigen (AMA1) and rhoptry neck protein 2 (RON2) with an adjuvant. AMA1 is a crucial component of the *Plasmodium* invasion machinery and is a leading candidate for antimalarial vaccine development.