

■ **DISSECTING THE EARLY HIV IMMUNE RESPONSE: A SYSTEMS BIOLOGY APPROACH (P01): RFA-AI-09-018**

Components of Participating Organizations
National Institute of Allergy and Infectious Diseases

Letters of Intent Receipt Date: November 2, 2009
Application Due Date: December 1, 2009
Earliest Anticipated Start Date: July, 2010

This Funding Opportunity Announcement (FOA) issued by the National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), solicits Program Project Grant (P01) applications that propose systems biology analyses of early immune responses to HIV/SIV exposure or infection. The goal of the HIV Systems Biology Program is to gain a more comprehensive understanding of networks or interacting components in early immune responses to HIV/SIV in order to predict systems behavior that informs the outcome of HIV/SIV exposure or infection.

This FOA will use the NIH Program Project (P01) grant mechanism. Each Program Project application must consist of at least two projects sharing a common theme, focus or overall objective and an Administrative and Data Management Core. The NIAID intends to commit \$5.0 million in total costs in FY2010 to fund one to two applications in response to this FOA. Direct costs are limited to \$2.5 million per year for up to five years.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian- serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities/Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; non-domestic (non-U.S.) entities (foreign organizations); eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis) may be designated on the application. Applicants may submit more than one application, provided they are scientifically distinct. Resubmission applications are not permitted in response to this FOA. Renewal applications are not permitted in response to this FOA. This FOA uses non-standard due dates.

Complete details available at <http://grants.nih.gov/grants/guide/rfa-files/RFA-AI-09-018.html>.

■ **BIOENERGETICS, FATIGABILITY, AND ACTIVITY LIMITATIONS IN AGING (R21): PA-09-191**

Components of Participating Organizations

*National Institute on Aging
National Heart, Lung, and Blood Institute
National Institute of Nursing Research
Office of Dietary Supplements
Office of Research on Women's Health*

Application Due Date(s): Standard dates apply
Expiration Date: September 8, 2012

This FOA issued by the National Institute on Aging, National Heart, Lung, and Blood Institute, National Institute of Nursing Research, Office of Research on Women's Health, and the Office of Dietary Supplements encourages R21 applications proposing to study bioenergetic factors underlying increased fatigability and activity limitations in aging. Increased fatigability is a significant cause of restricted physical and cognitive activity in older adults. Alterations in bioenergetics—the production and utilization of energy, and the regulation of these processes—may contribute significantly to increased fatigability. This FOA encourages applications that propose to 1) elucidate specific alterations in bioenergetics related to increased fatigability and activity limitations; 2) develop and evaluate improved measures of fatigability related to bioenergetics; 3) evaluate interventions for increased fatigability and activity limitations that target alterations in bioenergetics and lead to improved quality of life.

This FOA will use the NIH Exploratory/Developmental (R21) grant mechanism and runs in parallel with a FOA of identical scientific scope, PA-09-190, that encourages applications under the Research Project Grant (R01) mechanism, and PA-09-192, that encourages applications under the Small Research Grant (R03) mechanism. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The total amount awarded and the number of awards will depend upon the mechanism, numbers, quality, duration, and costs of the applications received. The total project period for an application submitted in response to this funding opportunity may not exceed two years. Direct costs are limited to \$275,000 over an R21 two-year period, with no more than \$200,000 in direct costs allowed in any single year. The R21 application Research Plan component of the PHS398 (Items 2–5) may not exceed 15 pages, including tables, graphs, figures, diagrams, and charts.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (Federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities/Indian housing authorities; U.S. territories or possessions;

Indian/Native American tribal governments (other than federally recognized); regional organizations; non-domestic (non-U.S.) entities (foreign organizations); eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Exploratory/developmental grant support is for new projects only; competing renewal (formerly “competing continuation”) applications will not be accepted.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-191.html>.

■ BIOENERGETICS, FATIGABILITY, AND ACTIVITY LIMITATIONS IN AGING (R03): PA-09-192

Components of Participating Organizations

*National Institute on Aging
Office of Dietary Supplements*

Application Due Date(s): Standard dates apply
Expiration Date: September 8, 2012

The R03 grant mechanism supports different types of projects including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. The R03 is intended to support small research projects that can be carried out in a short period of time with limited resources. This FOA issued by the National Institute on Aging and the Office of Dietary Supplements solicits Small Research Grant (R03) applications proposing to study bioenergetic factors underlying increased fatigability and activity limitations in aging. Increased fatigability is a significant cause of restricted physical and cognitive activity in older adults. Alterations in bioenergetics—the production and utilization of energy, and the regulation of these processes—may contribute significantly to increased fatigability. This FOA encourages applications that propose to 1) elucidate specific alterations in bioenergetics related to increased fatigability and activity limitations; 2) develop and evaluate improved measures of fatigability related to bioenergetics; 3) evaluate interventions for increased fatigability and activity limitations that target alterations in bioenergetics and lead to improved quality of life.

This FOA will utilize the NIH Small Research Grant (R03) award mechanism and runs in parallel with an FOA of identical scientific scope, PA-09-190, that encourages applications under the Research Project Grant (R01) mechanism, and PA-09-191, that encourages applications under the Exploratory/Developmental Research (R21) mechanism. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of

each award will also vary. The total amount awarded and the number of awards will depend upon the mechanism numbers, quality, duration, and costs of the applications received. Budgets for direct costs of up to \$50,000 per year and a project duration of up to two years may be requested for a maximum of \$100,000 direct costs over a two-year project period. Items 2–5 of the PHS398 Research Plan component of the R03 application may not exceed 10 pages, including tables, graphs, figures, diagrams, and charts. See http://grants.nih.gov/grants/funding/funding_program.htm.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities/Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; non-domestic (non-U.S.) entities (foreign organizations); eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). The R03 is not renewable.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-192.html>.

■ BIOMARKERS FOR EARLY DETECTION OF HEMATOPOIETIC MALIGNANCIES (R21): PA-09-198

Note Biomarkers for Early Detection of Hematopoietic Malignancies (R01): PA-09-197

Details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-197.html>

Components of Participating Organizations

National Cancer Institute

Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>
AIDS Application Due Date(s): <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>.

Earliest Anticipated Start Date(s): <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>
 Expiration Date: September 8, 2012

This Funding Opportunity Announcement (FOA), issued by the National Cancer Institute (NCI), encourages research grant applications from institutions/organizations for the development and validation of biomarkers for: a) early detection, prediction of progression, and recurrence of hematopoietic malignancies, especially in high-risk individuals; and, b) for risk assessment of primary and secondary hematopoietic malignancies. This FOA is also encourages the development and improvement of specific technologies and methods for quantitative detection of novel biomarkers associated with hematopoietic malignancies. This FOA will utilize the NIH exploratory/developmental (R21) grant mechanism and runs in parallel an FOA of identical scientific scope, PA-09-197) that encourages applications under the R01 mechanism. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The total amount awarded and the number of awards will depend upon the mechanism, numbers, quality, duration, and costs of the applications received. The total project period for an application submitted in response to this funding opportunity may not exceed two years. Direct costs are limited to \$275,000 over an R21 two-year period, with no more than \$200,000 in direct costs allowed in any single year. The R21 application Research Plan component of the PHS398 (Items 2–5) may not exceed 15 pages, including tables, graphs, figures, diagrams, and charts.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; U.S. territories or possessions; regional organizations; non-domestic (non-U.S.) entities (foreign organizations); and eligible agencies of the federal government. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Exploratory/developmental grant support is for new projects only; competing renewal (formerly “competing continuation”) applications will not be accepted.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-198.html>.

■ IDENTIFYING NON-CODING RNA TARGETS FOR CANCER EARLY DETECTION AND PREVENTION (R01): PA-09-199

Note Identifying Non-coding RNA Targets for Cancer Early Detection and Prevention (R21): PA-09-200

Details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-200.html>

Components of Participating Organizations National Cancer Institute

Application Due Dates: Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

AIDS Application Due Dates: Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>.

Earliest Anticipated Start Dates: Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>

Expiration Date: September 8, 2012

This Funding Opportunity Announcement (FOA), issued by the National Cancer Institute (NCI), encourages research grant applications from institutions/organizations on the discovery and characterization of non-coding (nc) RNAs in preneoplasias and early stage cancers to: 1) improve early cancer detection, intervention, and prevention; 2) predict risk of progression from preneoplasia to cancer, and 3) distinguish benign lesions from precancerous lesions. This FOA uses the NIH research project R01 grant mechanism and runs in parallel with an FOA of identical scientific scope, PA-09-200 that encourages applications under the NIH Exploratory/Developmental (R21) Grant mechanism. Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. The total project period for an application submitted in response to this funding opportunity may not exceed 5 years. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The R01 application Research Plan component may not exceed 25 pages, including tables, graphs, figures, diagrams, and charts (see also http://grants.nih.gov/grants/funding/funding_program.htm).

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; U.S. territories or possessions; regional organizations; non-domestic (non-U.S.) entities (foreign organizations); and eligible agencies of the federal government. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/ organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis) may be designated on the application. Applicants may submit more than one application, provided each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Applicants may submit a renewal application.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-199.html>.

■ ADVANCES IN POLYCYSTIC KIDNEY DISEASE (R01): PA-09-202

Components of Participating Organizations *National Institute of Diabetes and Digestive and Kidney Diseases*

Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

AIDS Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>.

Earliest Anticipated Start Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>

Expiration Date: September 8, 2012

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) through its Division of Kidney, Urologic and Hematologic Diseases (DKUHD) invites experienced and new investigators to submit research grant applications to pursue basic and applied investigations in order to better understand the etiology and pathogenesis of Polycystic Kidney Disease (PKD), in both its autosomal dominant and autosomal recessive forms. The intent of this funding opportunity is to intensify investigator-initiated research, to attract new investigators to the field, and to increase interdisciplinary research. The ultimate aim is to facilitate PKD-related research studies, which will provide the basis for new therapeutic approaches. This funding opportunity will utilize the (R01) grant mechanism. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The total amount awarded and the number of awards will depend upon the mechanism numbers, quality, duration, and costs of the applications received. The total project period for an application submitted in response to this funding opportunity may not exceed 5 years. Applicants for an R01 award are not limited in dollars but need to reflect the actual needs of the proposed project.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from under-represented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the

previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Applications can be renewed by competing for additional project periods.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-202.html>.

■ DEVELOPMENT AND VALIDATION OF DISEASE BIOMARKERS (R01): PA-09-204

Components of Participating Organizations *National Institute of Diabetes and Digestive and Kidney Diseases*

National Institute on Alcohol Abuse and Alcoholism

National Institute of Nursing Research

Office of Dietary Supplements

Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

AIDS Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>.

Earliest Anticipated Start Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>

Expiration Date: September 8, 2012

This Funding Opportunity Announcement (FOA) issued by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), the National Institute on Alcohol Abuse and Alcoholism (NIAAA), the National Institute of Nursing Research (NINR), and the Office of Dietary Supplements (ODS) of the National Institutes of Health, will provide resources to validate candidate biomarkers for well-defined human diseases of the liver, kidney, urological tract, and digestive and hematologic systems, as well as endocrine and metabolic disorders, diabetes and its complications, and obesity, for which there are no or very few biomarkers, or for which standard biomarkers are currently prohibitively invasive or expensive. A biomarker is an indicator of a disease process, and could replace hard clinical end points as a measure of the effect of new therapies. Appropriate studies will validate candidate biomarkers in well-defined patient populations, provide new technologies to monitor biomarkers or establish reliable assays for validated markers. Progress in this area has the potential to advance translational research related to efficacy of treatments and bio-behavioral interventions. This FOA is not appropriate for biomarker discovery projects.

This FOA will utilize the NIH Research Project Grant (R01) award mechanism. Developmental/Exploratory Research (R21) applications within the scientific scope of the FOA can be submitted in response to the NIH Parent R21 PA <http://grants.nih.gov/grants/guide/pa-files/PA-06-181.html>. Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. The total project period for an application submitted in response to this funding opportunity may not exceed 5 years. Applications for R01 awards are not limited in dollars but need to reflect the actual needs of the proposed projects. The R01 application Research Plan component of the PHS398 (Items 2–5) may not exceed 25 pages, including tables, graphs, figures, diagrams, and charts. See http://grants1.nih.gov/grants/funding/funding_program.htm

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions;

Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian- serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities; Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; non-domestic (non-U.S.) entities (foreign organizations); eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Applicants may submit a renewal application.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-204.html>.

■ CENTERS OF CANCER NANOTECHNOLOGY EXCELLENCE (CCNES) (U54): RFA-CA-09-012

Components of Participating Organizations *National Cancer Institute*

Application Receipt Date: October 14, 2009
Earliest Anticipated Start Date: September 2010
Expiration Date: October 15, 2009

This Funding Opportunity Announcement (FOA), issued by the National Cancer Institute (NCI) solicits grant applications to establish a collaborative network of Centers for Cancer Nanotechnology Excellence (CCNEs) within the NCI Alliance for Nanotechnology in Cancer (The Alliance) program (<http://nano.cancer.gov>). Whereas CCNEs will form the core of the Alliance, they will be accompanied by smaller awards for cancer nanotechnology platform projects (CNPPs) and training programs. This initiative is open to all qualified applicants regardless of whether or not they participated in the previous issuance of the program. CCNEs are designed to link physical scientists, engineers, and technologists working at the nanoscale with cancer biologists and oncologists specializing in the diagnosis, prevention, and treatment of cancer to enable multi-disciplinary team research. CCNE awards will support the development of techniques and tools based on nanotechnology and applicable to: early disease diagnosis using *in vitro* assays and devices and *in vivo* imaging techniques; multifunctional therapeutic solutions; and techniques for cancer prevention and control. Multi-disciplinary research teams

to be established should collectively have the breadth of expertise that would allow them to: (a) identify innovative research approaches and (b) demonstrate the translational potential of the technological solution in oncology. The overall goal is a rapid advance of nanotechnology discoveries and their transformation into cancer-relevant applications with a potential clinical utility.

This FOA will utilize the NIH Cooperative Agreement Specialized Centers (U54) funding mechanism. Separate Nanotechnology Alliance FOAs will solicit applications for the platform awards (CNPPs, U01 funding mechanism, RFA-CA-09-013) and career development and training grants involving R25 funding mechanism (RFA-CA-09-014) and K99/R00 funding mechanism (FOA to be issued later). For this CCNE FOA, the NCI has committed approximately \$20M - \$27M in total costs for FY 2010 and \$100M - \$135M over a 5-year period. Approximately six to ten awards are expected in connection with this FOA. Total costs requested or awarded for a single center may not exceed \$3.2M per year over a 5-year period.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); Small businesses; for-profit organizations (other than small businesses); state governments; U.S. territories and possessions; regional organizations; eligible agencies of the federal government; and units of local governments. Foreign institutions are not eligible to submit applications in response to this FOA, but may participate on a sub contractual basis on applications submitted by eligible domestic applicant institutions. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. However, PDs/Pis submitting a U01 application in response to the CNPP RFA-CA-09-013 or R25 application in response to CNTC RFA-CA-09-014 are NOT eligible to apply for the U54 CCNE award under this FOA as PDs/Pis. More than one PD/PI (i.e., multiple PDs/Pis) may be designated on the application. Applicant institutions may submit more than one CCNE U54 application in response to this FOA, provided that each application is: (a) scientifically distinct and (b) proposed by a separate team of investigators (i.e., with different PDs/Pis and other key personnel). Resubmission applications are not permitted in response to this FOA. Renewal applications are not permitted in response to this FOA. Even applications from the current CCNE awardees will be treated as new applications.

Complete details available at <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-09-012.html>.

■ INTERNATIONAL RESEARCH COLLABORATIONS ON HIV/AIDS AND DRUG USE (R01): RFA-DA-10-008

Components of Participating Organizations *National Institute on Drug Abuse*

Letters of Intent Receipt Date(s): October 18, 2009
Application Due Date(s): November 18, 2009
Earliest Anticipated Start Date(s): July 2010
Expiration Date: November 19, 2009

This program fosters research related to biomedical and clinical science, epidemiology, prevention, and treatment of HIV/AIDS associated with drug use. The FOA seeks to foster international research collaborations with a regional geographic focus that take advantage of populations, resources, talent, or environmental/contextual conditions outside the U.S. that offer special opportunities to advance scientific knowledge. This FOA will utilize the R01 grant mechanism. NIDA intends to commit up to a total of \$2.0 million in FY 2010 to support approximately 8 meritorious projects that are responsive to this FOA. The total project period for an application submitted in response to this funding opportunity may not exceed five years. Direct costs are limited to \$350K per year.

Eligible institutions and organizations include: public and state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities; Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; non-domestic (non-U.S.) entities (foreign organizations); eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/ organization to develop an application for support. Individuals from under-represented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis) may be designated on the application. Applicants may submit more than one application, provided each application is scientifically distinct. Resubmission applications are not permitted in response to this FOA. Renewal applications are not permitted in response to this FOA.

Complete details available at <http://grants.nih.gov/grants/guide/rfa-files/RFA-DA-10-008.html>.

■ **ANCILLARY STUDIES OF ACUTE KIDNEY INJURY, CHRONIC KIDNEY DISEASE, AND END STAGE RENAL DISEASE ACCESSING INFORMATION FROM CLINICAL TRIALS, EPIDEMIOLOGICAL STUDIES, AND DATABASES (R01): PA-09-196**

Components of Participating Organizations

National Institute of Diabetes and Digestive and Kidney Diseases
National Heart, Lung, and Blood Institute

Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

AIDS Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>.

Earliest Anticipated Start Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>

Expiration Date: September 8, 2012

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) and the National Heart Lung and Blood Institute (NHLBI) invite investigator-initiated research project applications for ancillary studies to ongoing or completed clinical trials, existing administrative and clinical databases and epidemiological studies of kidney disease as well as clinical trials and epidemiological studies for other diseases or populations that lend themselves to the study of acute kidney injury and chronic kidney disease. These studies may range from new analyses of existing datasets of completed studies to additional collection of data and biological specimens in ongoing investigations. The goal of these studies should be to extend our understanding of the risk factors for developing kidney disease and their associated co-morbid illnesses such as malnutrition and cardiovascular disease, factors associated with rapid decline in kidney function among persons with chronic kidney disease, and the impact of these diseases on quality of life and mental and physical functioning. Investigations of acute kidney injury, including biomarkers, is also an appropriate topic for investigation. Studies ancillary to both government and non-government supported clinical trials and epidemiological studies are encouraged. Analysis of large public access databases and other databases is also encouraged.

This Funding Opportunity Announcement (FOA) will utilize the NIH Research Project Grant (R01) award mechanism. Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. The total project period for an application submitted in response to this funding opportunity may not exceed 5 years. Applications for R01 awards are not limited in dollars but need to reflect the actual needs of the proposed projects. The R01 application research plan component of the PHS398 (Items 2–5) may not exceed 25 pages, including tables, graphs, figures, diagrams, and charts. See http://grants1.nih.gov/grants/funding/funding_program.htm

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities; Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; non-domestic (non-U.S.) entities (foreign organizations); eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from under-represented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support.

More than one PD/PI (i.e., multiple PDs/PIs), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Applicants may submit a renewal application.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-196.html>.

■ NHLBI SYSTEMS BIOLOGY COLLABORATIONS (R01): PAR-09-214

Components of Participating Organizations *National Heart, Lung, and Blood Institute*

Application Due Date(s): September 14, 2009; January 13, 2010; September 14, 2010; January 13, 2011; September 14, 2011; January 13, 2012

Earliest Anticipated Start Date(s): July 2010, December 2010, July 2011, December 2011, February 2012, December 2012

Expiration Date: January 14, 2012

This FOA issued by the National Heart, Lung, and Blood Institute (NHLBI), National Institutes of Health, encourages Research Project Grant (R01) applications from institutions/organizations that propose collaborative systems biology research projects by multi-disciplinary teams to advance our understanding of normal physiology and perturbations associated with heart, lung, blood, and sleep (HLBS) diseases and disorders. Multi-disciplinary expertise across experimental and computational domains is required and the multi-PI mechanism is allowed, as integration across these domains is a critical element of the proposed research plan.

This FOA will utilize the R01 grant mechanism. Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. Although the financial plans of the IC(s) provide support for this program, awards pursuant to this funding opportunity are contingent upon the availability of funds. The R01 application Research Plan component of the PHS398 (Items 2–5) may not exceed 25 pages, including tables, graphs, figures, diagrams, and charts. See http://grants1.nih.gov/grants/funding/funding_program.htm

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts;

public housing authorities; Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; non-domestic (non-U.S.) entities (foreign organizations); eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from under-represented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/PIs), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Applicants may submit a renewal application.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PAR-09-214.html>.

■ CALCIUM OXALATE STONE DISEASES (R01): PA-09-213

Components of Participating Organizations *National Institute of Diabetes and Digestive and Kidney Diseases Application Receipt/Submission*

Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

Earliest Anticipated Start Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewaward>

Expiration Date: September 8, 2012

The purpose of this Funding Opportunity Announcement (FOA) is to increase investigator interest in research into oxalate metabolism, transport and homeostasis, and oxalate stone diseases. This initiative encourages basic, clinical or epidemiological studies that utilize new and innovative approaches to study the diagnosis, treatment and prevention of these disorders. This FOA will utilize the NIH Research Project Grant (R01) grant mechanism. Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. The total project period for an application submitted in response to this funding opportunity may not exceed 5 years. Applications for R01 awards are not limited in dollars but need to reflect the actual needs of the proposed projects. The R01 application Research Plan component of the PHS398 (Items 2–5) may not exceed 25 pages, including tables, graphs, figures, diagrams, and charts. See http://grants1.nih.gov/grants/funding/funding_program.htm

Eligible institutions and organizations include: public and state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit

organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities; Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; non-domestic (non-U.S.) entities (foreign organizations); eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Applicants may submit a renewal application.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-213.html>.

■ MECHANISMS UNDERLYING THE LINKS BETWEEN PSYCHOSOCIAL STRESS, AGING, THE BRAIN AND THE BODY (R01): PA-09-216

Components of Participating Organizations

National Institute on Aging

National Cancer Institute

National Institute of Mental Health

Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

AIDS Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>

Earliest Anticipated Start Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>

Expiration Date: September 8, 2012

This FOA encourages multidisciplinary and interdisciplinary research to elucidate the mechanistic links between psychosocial stress and health in aging, as well as how the aging process and age-related diseases affect the responses to psychosocial stressors. Generally, research should be focused on (1) aging and how neural mechanisms respond to psychosocial stress and affect other body systems, (2) characterizing the behavioral, psychological and social mechanisms and pathways involved in transducing psychosocial stressors into health outcomes, (3) how stressors modulate physiological process underlying life-span, immune mechanisms, and metabolism, and (4) how psychosocial stress contributes to the development or progression of geriatric syndromes, chronic medical conditions, and disabilities in later life. Research is strongly encouraged that aims to identify appropriate targets for intervention, at any level of analysis, from societal to molecular.

Research spanning multiple levels of analysis is particularly encouraged. Research focused on oxidative stress or on environmental or physical stressors of a non-psychosocial nature is not appropriate to this FOA.

This FOA will utilize the R01 grant mechanism. Awards issued under this FOA are contingent upon the availability of funds and the submission of a sufficient number of meritorious applications. The total project period for an application submitted in response to this funding opportunity may not exceed 5 years. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The R01 application Research Plan component of the PHS398 may not exceed 25 pages, including tables, graphs, figures, diagrams, and charts. See http://grants1.nih.gov/grants/funding/funding_program.htm.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities; Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; and non-domestic (non-U.S.) entities (foreign organizations). Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Applicants may submit a renewal application.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-216.html>.

■ THE ROLE OF APOLIPOPROTEIN E, LIPOPROTEIN RECEPTORS AND CNS LIPID HOMEOSTASIS IN BRAIN AGING AND ALZHEIMERS DISEASE (R01): PA-09-217

Components of Participating Organizations

National Institute on Aging

Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

AIDS Application Due Dates: Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>

Earliest Anticipated Start Date(s): <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewaward>
 Expiration Date: September 8, 2012

This FOA encourages multidisciplinary and interdisciplinary research to elucidate how Apolipoprotein E, lipoprotein receptors and CNS lipid homeostasis influence brain aging and the transition to neurodegeneration in Alzheimer's disease (AD). The ultimate goal is to gain an in depth understanding of the mechanisms by which the Apolipoprotein E e4 allele confers increased AD risk for the purpose of advancing the overall search for efficacious AD treatments and Apolipoprotein E e4-directed therapeutics in particular. To this end we encourage research spanning multiple levels of analysis in multiple species (from mice to man). Studies aimed at identifying new therapeutic targets for the treatment of AD and other age-related neurodegenerative conditions associated with lipid neurobiology are strongly encouraged. Also of great interest are projects that aim to use lipidomics, various types of imaging and other cutting edge technologies to identify and develop early biomarkers of neurodegeneration associated lipid dyshomeostasis.

This FOA will utilize the R01 grant mechanism. During Fiscal Year 2010, the estimated amount of funds available to support projects under this FOA is \$2,500,000. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. Given the likely range of budgets, it is anticipated that 4 to 7 awards could be made during Fiscal Year 2010. The availability of funds and the number of awards in future years will depend upon annual appropriations. The total project period for an application submitted in response to this funding opportunity may not exceed 5 years. The R01 application Research Plan component of the PHS398 may not exceed 25 pages, including tables, graphs, figures, diagrams, and charts. See http://grants1.nih.gov/grants/funding/funding_program.htm.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities; Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; and non-domestic (non-U.S.) entities (foreign organizations). Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must

include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Applicants may submit a renewal application.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-217.html>.

■ LIMITED COMPETITION: SUPPORT FOR HUMAN SPECIMEN BANKING IN NCI-SUPPORTED CLINICAL TRIALS - COOPERATIVE GROUP BANKS (CGB) (U24): RFA-CA-09-504

Components of Participating Organizations National Cancer Institute

Application Receipt Date: November 17, 2009
 Earliest Anticipated Start Date: July 1, 2010
 Expiration Date: November 18, 2009

This limited competition Funding Opportunity Announcement (FOA), issued by the National Cancer Institute (NCI), solicits renewal applications for the support of the Cooperative Group Banks (CGBs). CGBs were established to collect, store, and distribute well-annotated human specimens from patients with cancer who are participating in NCI-funded Phase III and large Phase II clinical treatment trials. This FOA is designed to continue support of the infrastructure of the CGBs and to provide access for qualified investigators to the specimens with associated high-quality, clinical, treatment and outcome data that are critical for developing and validating biomarkers for diagnoses, prognoses, and predictions of responses of cancer patients to therapies.

This FOA will utilize the NIH U24 cooperative agreement mechanism. The NCI intends to commit \$8.75 million per year (total costs set aside) in fiscal years 2010-2015, for a total allocation of \$43.75 million over the indicated 5 years. Up to nine awards are projected to be made under this FOA. Applicants should request a project period of 5 years.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); and regional organizations. Only the organizations representing the current nine Cooperative Oncology Group Banks with CGBs funded under RFA-CA-05-017 are eligible to apply. (Current awards eligible for renewal under this FOA include: 5U24CA114737; 5U24CA114748; 5U24CA114725; 5U24CA114734; 5U24CA114740; 5U24CA114732; 5U24CA114736; 5U24CA114766; and 5U24CA114793). Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. Eligible PIs must be the current PI and/or any other individual(s) designated/approved by the Cooperative Group with the skills, knowledge, and resources necessary to carry out the proposed research. Only one PD/PI per application is allowed. Each eligible applicant institution may submit only one renewal application in response to this FOA. Resubmission applications are not permitted in response to this FOA. Only renewal applications

from the current CGB U24 awardees will be accepted in response to this FOA.

Complete details available at <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-09-504.html>.

■ **CYSTIC FIBROSIS RESEARCH AND TRANSLATION CORE CENTERS (P30): RFA-DK-09-009**

Components of Participating Organizations
National Institute of Diabetes and Digestive and Kidney Diseases

Letters of Intent Receipt Date: October 21, 2009

Earliest Anticipated Start Date: July 1, 2010

Expiration Date: November 18, 2009

This FOA issued by the National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, solicits grant applications from institutions/organizations for Core Centers. The Cystic Fibrosis Research and Translation Core Center Program is designed to support both basic and clinical research on Cystic Fibrosis (CF). Core Centers provide shared resources to support research to develop and test new therapies for CF and foster collaborations among institutions with a strong existing research base in CF. The Center will also support pilot and feasibility studies to develop and test new approaches to therapy.

This FOA will utilize the NIH Core Center research (P30) grant mechanism. The total amount of funding that the agency/IC (s) expect(s) to award through this announcement is \$2,700,000 in 2010; NIDDK anticipates issuing 3 awards. The total project period for an application submitted in response to this funding opportunity may not exceed five years. Direct costs are limited to \$750,000 per year.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; Indian/Native American tribal governments (federally recognized); Indian/Native American tribally designated organizations; county governments; city or township governments; special district governments; Independent School Districts; public housing authorities; Indian housing authorities; U.S. territories or possessions; Indian/Native American tribal governments (other than federally recognized); regional organizations; and eligible agencies of the federal government. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicant organizations may submit only one application to this FOA. Resubmission applications are not permitted in response to this FOA. Renewal applications are permitted in response to this FOA.

Complete details available at <http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-09-009.html>.

■ **EXFOLIATED CELLS AND CIRCULATING DNA IN CANCER DETECTION AND DIAGNOSIS (R21): PA-09-238**

Components of Participating Organizations
National Cancer Institute

Application Submission Date(s): Standard dates apply, see <http://grants.nih.gov/grants/funding/submissionschedule.htm>

Earliest Anticipated Start Date(s): Standard dates apply, see <http://grants.nih.gov/grants/funding/submissionschedule.htm>

Expiration Date: September 8, 2012.

This funding opportunity announcement (FOA), issued by the National Cancer Institute (NCI), invites applications aimed at the development of novel technologies for capturing, enriching, and preserving exfoliated abnormal cells from body fluids or effusions as well as methods for concentrating the tumor-derived sub-cellular material for use in biomarker studies. In body fluids, such as sputum, exfoliated tumor cells are a minor component compared to normal cells. As a result, the detection of exfoliated abnormal cells by routine cytopathology is often limited by the low number of atypical cells present in a given specimen. New enrichment methods are necessary to facilitate the detection of very low levels of exfoliated tumor cells and tumor-derived sub-cellular materials in biological fluids.

This FOA will use the NIH Exploratory/Developmental (R21) grant mechanism. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The total amount awarded and the number of awards will depend upon the mechanism, numbers, quality, duration, and costs of the applications received. The total project period for an application submitted in response to this funding opportunity may not exceed two years. Direct costs are limited to \$275,000 over an R21 two-year period, with no more than \$200,000 in direct costs allowed in any single year. The R21 application Research Plan component of the PHS398 may not exceed 15 pages, including tables, graphs, figures, diagrams, and charts.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; U.S. territories or possessions; regional organizations; non-domestic (non-U.S.) entities (foreign organizations); and eligible agencies of the federal government. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/Pis), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on

resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Renewal applications are not permitted in response to this FOA.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-238.html>.

■ SMALL GRANT PROGRAM FOR NIDDK K01/K08/K23 RECIPIENTS (R03): PAR-09-230

Components of Participating Organizations

National Institute of Diabetes and Digestive and Kidney Diseases Office of Dietary Supplements

Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

AIDS Application Due Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>.

Earliest Anticipated Start Date(s): Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>

Expiration Date: September 8, 2012

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) and the Office of Dietary Supplements (ODS) announce a program that provides NIDDK-supported K01, K08 and K23 recipients the opportunity to apply for Small Grant (R03) support to run concurrently with the latter years of their K award. Through the use of this mechanism, which allows up to \$50,000 direct costs per year for two years in additional research development costs, the NIDDK is seeking to enhance the capability of its K01, K08 and K23 award recipients to conduct research as they complete their transition to fully independent investigator status. The R03 grant mechanism supports different types of projects, including pilot and feasibility studies; secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. The R03 is intended to support research projects that can be carried out in a short period of time with limited resources.

This FOA will utilize the NIH Small Research Grant (R03) award mechanism. The total amount awarded and the number of awards will depend upon the quality and the number of applications received. Funding decisions will reflect the needs, priorities and mission of the NIDDK. Budgets for direct costs of up to \$50,000 per year and a project duration of up to two years may be requested for a maximum of \$100,000 direct costs over a two-year project period. Items 2–5 of the PHS398 Research Plan component of the R03 application may not exceed 10 pages, including tables, graphs, figures, diagrams, and charts. See http://grants.nih.gov/grants/funding/funding_program.htm.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; Historically Black Colleges and Universities; Tribally Controlled Colleges and Universities; Alaska Native- and Native Hawaiian-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; and for-profit organizations (other than small businesses). Individuals with currently-funded NIDDK K01, K08 or K23 awards may

apply. Investigators that have already successfully competed for an R01 grant, or equivalent, are ineligible. Individuals from underrepresented racial and ethnic groups, as well as individuals with disabilities, are always encouraged to apply for NIH support. Only one PD/PI may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. However, only one application per PI will be funded. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). The R03 is not renewable.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-230.html>.

■ DIET, EPIGENETIC EVENTS, AND CANCER PREVENTION (R21): PA-09-235

Note Diet, Epigenetic Events, and Cancer Prevention (R01): PA-09-234

Details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-234.html>

Components of Participating Organizations

National Cancer Institute

National Institute on Alcohol Abuse and Alcoholism Office of Dietary Supplements Application

Application Due Dates: Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm>

AIDS Application Due Dates: Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#AIDS>.

Earliest Anticipated Start Dates: Standard dates apply, see <http://grants1.nih.gov/grants/funding/submissionschedule.htm#reviewandaward>

Expiration Date: September 8, 2012

The aim of this funding opportunity announcement (FOA), issued by the National Cancer Institute (NCI), the National Institute on Alcohol Abuse and Alcoholism (NIAAA), and the Office of Dietary Supplements (ODS), of the National Institutes of Health (NIH), is to promote clinical and preclinical research to determine how diet and dietary factors, including dietary supplements, impact DNA methylation, histone posttranslational modification, noncoding RNA, and other epigenetic processes involved in cancer prevention and development. Another important aim of this initiative is to encourage collaborations between nutrition and epigenetic experts to study bioactive food components with cancer-preventative properties and to examine key epigenetic events in cancer processes (e.g., carcinogen metabolism, cell division, differentiation, and apoptosis) in order to begin to establish linkages between epigenetics, methylation patterns, and tumor incidences/behaviors.

This FOA will use the NIH Exploratory/Developmental (R21) grant mechanism and runs in parallel with a FOA of identical scientific scope, PA-09-234, that encourages applications under the Research Project Grant (R01) mechanism. Because the nature and scope of the proposed research will vary from application to application, it is anticipated that the size and duration of each award will also vary. The total amount awarded and the number of awards will depend upon

the mechanism, numbers, quality, duration, and costs of the applications received. The total project period for an application submitted in response to this funding opportunity may not exceed two years. Direct costs are limited to \$275,000 over an R21 two-year period, with no more than \$200,000 in direct costs allowed in any single year. The R21 is not renewable. The R21 application Research Plan component of the PHS398 (Items 2–5) may not exceed 15 pages, including tables, graphs, figures, diagrams, and charts.

Eligible institutions and organizations include: public or state controlled institutions of higher education; private institutions of higher education; Hispanic-serving institutions; nonprofit organizations with 501(c)(3) IRS status (other than institutions of higher education); nonprofit organizations without 501(c)(3) IRS status (other than institutions of higher education); small businesses; for-profit organizations (other than small businesses); state governments; county governments; city or township governments; special district governments; Independent School Districts; U.S. territories or possessions; regional organizations; non-domestic (non-U.S.) entities (foreign

organizations); and eligible agencies of the federal government; and faith-based or community-based organizations. Individuals with the skills, knowledge, and resources necessary to carry out the proposed research are invited to work with their institution/organization to develop an application for support. Individuals from underrepresented racial and ethnic groups as well as individuals with disabilities are always encouraged to apply for NIH support. More than one PD/PI (i.e., multiple PDs/PIs), may be designated on the application. Applicants may submit more than one application, provided that each application is scientifically distinct. Applicants may submit a resubmission application, but such application must include an Introduction addressing the previous peer review critique (Summary Statement). See new NIH policy on resubmission (amended) applications (NOT-OD-09-003, NOT-OD-09-016). Exploratory/developmental grant support is for new projects only; competing renewal (formerly “competing continuation”) applications will not be accepted.

Complete details available at <http://grants.nih.gov/grants/guide/pa-files/PA-09-235.html>.