COLLEGES AND UNIVERSITIES RATE AGREEMENT

EIN #: 1430653611A1

INSTITUTION:
Washington University
Campus Box 1034
700 Rosedale
Saint Louis
MO 63130-4399

DATE: February 24, 2010
FILING NO.: The preceding Agreement was dated June 7, 2006

The rates approved in this agreement are for use on grants, contracts and other agreements with the Federal Government, subject to the conditions in Section III.

SECTION I: FACILITIES AND ADMINISTRATIVE COST RATES*

RATE TYPES: FIXED FINAL PROV. (PROVISIONAL) PRED. ("REDETERMINED")

<table>
<thead>
<tr>
<th>TYPE</th>
<th>EFFECTIVE PERIOD</th>
<th>RATE ($)</th>
<th>LOCATIONS</th>
<th>APPLICABLE TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRED.</td>
<td>07/01/09 06/30/13</td>
<td>52.0</td>
<td>On Campus</td>
<td>Organized Research</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/09 06/30/13</td>
<td>44.0</td>
<td>On Campus</td>
<td>Instruction</td>
</tr>
<tr>
<td>PRED.</td>
<td>07/01/09 06/30/13</td>
<td>35.0</td>
<td>On Campus</td>
<td>Other: Spon. Act</td>
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<tr>
<td>PRED.</td>
<td>07/01/09 06/30/13</td>
<td>26.0</td>
<td>Off Campus</td>
<td>All Programs</td>
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<tr>
<td>PRED.</td>
<td>07/01/09 06/30/13</td>
<td>25.8</td>
<td>On Campus</td>
<td>Genome Seq. Center</td>
</tr>
</tbody>
</table>
| PROV. | 07/01/13 UNTIL AMENDED |        |                    | Use same rates and conditions as those cited for fiscal year ending June 30, 2011.

*BASE:
Modified total direct costs, consisting of all salaries and wages, fringe benefits, materials, supplies, services, travel and subgrants and subcontracts up to the first $25,000 of each subgrant or subcontract (regardless of the period covered by the subgrant or subcontract). Modified total direct costs shall exclude equipment, capital expenditures, charges for patient care, tuition remission, rental costs of off-site facilities, scholarships, and fellowships as well as the portion of each subgrant and subcontract in excess of $25,000.
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Washington University

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SECTION II: SPECIAL REMARKS

TREATMENT OF PAID ABSENCES:
Vacation, holiday, sick leave pay and other paid absences are included in salaries and wages and are claimed on grants, contracts and other agreements as part of the normal cost for salaries and wages. Separate claims for the costs of these paid absences are not made.

OFF-CAMPUS DEFINITION: For all activities performed in facilities not owned by the institution and to which rent is directly allocated to the project(s), the off-campus rate will apply. Actual costs will be apportioned between on-campus and off-campus components. Each portion will bear the appropriate rate.

TREATMENT OF FRINGE BENEFITS:
FICA & Retirement Annuity are specifically identified to each employee and are charged individually as direct costs. All other fringe benefits are charged using a rate(s). Over/under recoveries from actual costs are adjusted in current or future periods. The directly claimed fringe benefits are listed below:

Disability Insurance
Worker's Compensation
Life Insurance
Unemployment Insurance
Health Insurance
Non-Dependent Employee Tuition Remission
Mass Transit Passes

Equipment Definition -
Equipment means an article of nonexpendable, tangible personal property having a useful life of more than one year and an acquisition cost of $5,000 or more per unit.
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SECTION III: GENERAL

A. LIMITATIONS:
The rates in this agreement are subject to any monetary or administrative limitations and apply to a given grant, contract or other agreement only to the extent that funds are available. Acceptance of the rates is subject to the following conditions:
1) Only costs incurred by the organization were included in its facilities and administrative costs pool as finally accepted; such costs are valid obligations of the organization and are allowable under the governing cost principles. 2) The costs that have been accepted are the only costs that are allowed under the governing principles. 3) The information provided by the organization which was used to establish the rates is not subject to material omissions or inaccuracies by the Federal Government. In such situations the rate(s) would be subject to renegotiation at the discretion of the Federal Government.

B. ACCOUNTING CHANGES:
This agreement is based on the accounting system presented by the organization to be in effect during the agreement period. Changes to the method of accounting for costs which affect the amount of reimbursement resulting from the use of this agreement require prior approval of the authorized representative of the cognizant agency. Such changes include, but are not limited to, changes in the charging of a particular type of cost from facilities and administrative direct. Failure to obtain approval may result in cost disallowance.

C. FIXED RATES:
If a fixed rate is in this agreement, it is based on an estimate of the costs for the period covered by the rate. When the actual costs for this period are determined, an adjustment will be made to a rate of a future year(s) to compensate for the difference between the rates used to establish the fixed rate and actual costs.

D. USE BY OTHER FEDERAL AGENCIES:
The rates in this agreement were approved in accordance with the authority in Office of Management and Budget Circular A-21, Circular, and should be applied to grants, contracts and other agreements covered by this Circular, subject to any limitations in a above. The organization may provide copies of the agreement to other Federal agencies to give them early notification of the Agreement.

B. OTHER:
If any federal contract, grant or other agreement is reestimating facilities and administrative costs by a means other than the approved rate(s) in this agreement, the organization should: (1) credit such costs to the affected programs; and (2) apply the approved rate(s) to the appropriate base to identify the proper amount of facilities and administrative costs allocable to these programs.

ON BEHALF OF THE FEDERAL AGENCY:

[Signature]

[Signature]

Henry Williams
[Signature]

[Signature]

Narendra B. Gandhi
[Signature]

[Signature]