

APPROPRIATIONS REQUEST FORM

OREGON HOUSE DELEGATION

FISCAL YEAR 2010

DEADLINE FOR SUBMISSION: FEBRUARY 13, 2009

PLEASE NOTE: As required by the House Appropriations Committee, all requests will be made public on the requesting Member's website.

1. Project Title: Oregon Center for Translational Genomics

2. Organization Name and address:

Oregon Health & Science University
3181 SW Sam Jackson Park Road
Portland, OR 97239

3. Primary Contact name, phone number, mobile phone number, fax number and email:

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Director of Federal Relations
Government and Community Relations
3181 SW Sam Jackson Park Road, L101
Portland, OR 97239
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Email: boylel@ohsu.edu

4. Project Location Address (if different from Organization):

5. Please describe the requesting organization's main activities, and whether it is a public, private non-profit, or private for-profit entity:

Oregon Health & Science University is the state's only health and research university, and Oregon's only academic health center. OHSU is Portland's largest employer and the fourth largest in Oregon (excluding government), with 12,700 employees. OHSU's size contributes to its ability to provide many services and community support activities not found anywhere else in the state. It serves 210,000 patients annually, and is a conduit for

learning for more than 3,400 students and trainees. OHSU is the source of more than 200 community outreach programs that bring health and education services to every county in the state.

As a leader in research, OHSU earned \$299 million in research funding in fiscal year 2008. OHSU serves as a catalyst for the region's bioscience industry and is an incubator of discovery, averaging one new breakthrough or innovation every three days, with more than 4,000 research projects currently under way. OHSU research has resulted in 37 new spinoff companies since 2000, most of which are based in Oregon.

6. Briefly describe the activity or project for which funding is requested (please keep to 500 words or less.)

The Oregon Center for Translational Genomics will develop new, individualized avenues for diagnosing disease, finding new treatments, and analyzing responses to treatments. Specifically, the Center, which will be a shared resource for Oregon's scientists, will focus on finding specific genetic markers that predict disease risk and treatment response. Diseases such as cancer, type II diabetes, obesity, osteoporosis, alcohol and substance abuse and rarer diseases will be an initial focus.

We know a great deal about the basic biology of genetics. But translating this basic science knowledge into treatments for individuals remains a challenge. For medicine to advance, we must be able to understand how individual genetic differences lead to the development of disease and to different responses to treatments for diseases. If we can rapidly and accurately identify these complex groups of genes, we can determine an individual's risk for disease and employ adequate prevention. We can also find treatments that respond best to an individual's specific genes.

As Oregon's only academic health center, OHSU is the ideal setting for such a center. First, OHSU has significant expertise in bioinformatics and biostatistical support necessary for the analysis of large and complex genetic data sets. Second, OHSU is an international leader in "individualized" medicine due to the work of OHSU cancer center director Dr. Brian Druker. Dr. Druker was the first scientist in the world to make a basic genetic discovery the foundation for targeted treatment of cancer cells-- treatments that attack only the cancer cells and leave healthy cells alone. This was a major breakthrough and confirmed that this kind of individualized medicine is an effective and valid way of treating our most grave diseases.

OHSU will soon be acquiring through private support a state-of-the-art instrument designed to sequence genes at significantly high rates of speed. In order to manage the additional data generated by this advanced instrumentation, OHSU requests funding to support additional scientists with expertise in bioinformatics, biostatistics, and molecular genetics. Funding for computer hardware is needed as well. The center will be a shared resource serving not only scientists at OHSU but throughout Oregon. Such a resource provides the ability to facilitate a more affordable means to access highly specialized and expensive technology that cannot be supported by individual labs. In addition, the center will provide technical support for the operation and maintenance of the equipment. The center will also provide intellectual and technical resources that can assist researchers in designing and conducting the proper experiments, preparing the appropriate samples for analysis, analyzing them in the most appropriate manner, and assisting in correctly interpreting the results. Finally, the center will have an important outreach function in explaining to the public the significance of this new data, the ethics of obtaining and using the data and how such data will benefit all Oregonians.

7. Has this project received federal appropriations funding in past fiscal years?

No

7a. If yes, please provide fiscal year, Department, Account, and funding amount of any previous funding.

Not applicable

8. Federal agency and account from which funds are requested (Please be specific – e.g. Department of Housing and Urban Development, Economic Development Initiatives account):

Department of Health and Human Services: HRSA

9. What is the purpose of the project? Why is it a valuable use of taxpayer funds? How will the project support efforts to improve the economy and create jobs in Oregon?

This center would certainly benefit Oregonians and U.S. citizens alike by advancing individualized medicine in the diseases of cancer, drug (especially methamphetamine) and alcohol abuse, in obesity and diabetes, and in a variety of neurological disorders (especially multiple sclerosis).

The work will build on the groundbreaking work of OHSU Cancer Center director, Dr. Brian Druker, and developing new and more effective approaches to treating cancer. The inventor of leukemia wonder-drug Gleevec, Dr. Druker revolutionized the understanding of cancer and its treatment by developing an approach that allows for targeted treatments that attack only the cancer cells and leave healthy cells alone. This was a major breakthrough and confirmed that individualized medicine is possible and can be particularly effective in treating our most grave diseases.

Dr. Druker is joined at OHSU by a cadre of scientific leaders who are uniquely poised to take advantage of new technologies for genetic analysis to advance the cause of individualized medicine. Development of the proposed center for high-speed genetic analysis will allow OHSU to add new key scientists to its team to analyze the data generated by the soon to be acquired cutting-edge and high speed gene sequencing equipment.

Investment in biomedical research has been shown to create good paying jobs and generate state business activity through the increased output of goods and services. The funding of this center will directly create 7 science related jobs. It does not taken into account the jobs that will indirectly be created as a result of the multiplier effect that OHSU has on job creation and the economy. According to the Association of American Medical Colleges, every dollar directly spent by OHSU generates indirectly an additional \$1.30 for a total economic impact of \$2.30.

10. Have you requested funding for this project from other Members of Congress? If so, who?

We are making this request of all members of the Oregon Congressional Delegation.

11. Funding Details:

a. Total project cost (all funding sources and all years):

\$8 million

b. Amount being requested for this project in Fiscal Year 2010:

\$975,000

c. What other funding sources (local, regional, state) are contributing to this project or activity? (Please provide specific dollar amount or percentage.)

We anticipate this as a phased project, with remaining funds to be contributed by OHSU through private fundraising and other non-federal funds. It is expected that the Murdoch Foundation will contribute \$500,000 for the purpose of the high speed sequencing equipment referred to above.

d. Do you expect to request federal funding in future years for this project?

Yes.

e. Breakdown/budget of the amount you are requesting for this project in FY 2010. (e.g. salary \$40,000; computer \$3,000):

Center for Translational Genomics: \$975,000

Personnel: (4 Ph.D. level FTEs; 1.5 B.S level FTE, 1 M.S. level FTE)	\$760,000
Equipment (Computer Hardware)	\$193,000
Other (Data Storage, Assay Development)	\$22,000

f. Please list public or private organizations that have supported/endorsed this project:

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g. Is this project scalable? (i.e. if partial funding is awarded, will the organization be able to use the funds in FY 2010?):

Yes.

Please return this form no later than February 13, 2009 (via email) to:

appropriations.blumenauer@mail.house.gov