

PATENT ASSIGNMENT

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| Name | Execution Date |
| Scripps Research Institute | 01/18/2008 |
| RECEIVING PARTY DATA | |
| Name: | National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government |
| Street Address: | NIH Division of Extramural Inventions and Technology Resources (DEITR) |
| Internal Address: | 6705 Rockledge Drive, Suite 310, MSC 7980 |
| City: | Bethesda |
| State/Country: | MARYLAND |
| Postal Code: | 20892-7980 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 11978221 |
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This instrument confers to the United States Government, as represented by the Department of Health and Human Services, a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced on its behalf throughout the world the following subject invention:

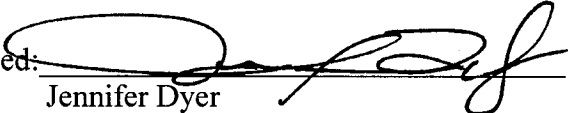
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Title: "Methods And Compositions For The Production Of Orthogonal Trna-Aminoacyl Trna Synthetase Pairs"
Inventor(S): Peter G. Schultz, Lei Wang, John Christopher Anderson, Jason W. Chin, David R. Liu, Thomas J. Magliery, Eric L. Meggers, Ryan Aaron Mehl, Miro Pastnak, Stephen William Santoro, Zhiwen Zhang

Country, if other than United States:

This subject invention was conceived or first actually reduced to practice in performance of a Government-funded project, **National Institutes of Health Grant No. GM62159.**

Principal rights to this subject invention have been left with the Licensor: **THE SCRIPPS RESEARCH INSTITUTE**, subject to the provisions of 37 CFR 401 and 45 CFR 8.

Signed: _____


 Jennifer Dyer
 Director, Technology Development
 The Scripps Research Institute

Date: _____

1/18/08