

PATENT ASSIGNMENT

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| RECEIVING PARTY DATA | |
| Name: | National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government |
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| 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 |
| Patent Number: | 7872023 |
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Invention Title: Kappa Opioid Receptor Ligands

Inventor(s): Frank I Carroll, Hernan A Navarro, Larrence E Brieaddy, Scott P Runyon

U.S. Filing/Issue Date: 01/18/2011

Patent or Application Serial No.: 7,872,023

Grant/Contract Number(s): DA009045

Foreign Applications filed/intended in (countries): Australia, Canada, Germany, European Patent Office, Spain, France, United Kingdom, Italy, Japan

The invention identified above is a Subject Invention under **35 U.S.C. 200, et seq.**, and the Standard Patent Rights clause at **37 CFR 401.14, FAR 52.227-11** or **FAR 52.227-12** (if applicable) which are included among the terms of the above identified grant or contract award from the United State Government. This document is confirmatory of:

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Signed this 10th day of September, 20 13.

By Dean T. Woodward

(Institutional Business Official)

Dean T. Woodward
(Signature)

Title Asst. GC, IP & Licensing

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