

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Allen MANGEL	03/20/2008
RECEIVING PARTY DATA	
Name:	Tioga Pharmaceuticals, Inc.
Street Address:	9393 Towne Centre, Drive
Internal Address:	Suite 200
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12044906
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	613242001000
NAME OF SUBMITTER:	Elizabeth Cary Miller
Total Attachments: 1 source=12044906_Assignment#page1.tif	

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ASSIGNMENT SOLE

THIS ASSIGNMENT, by **Allen MANGEL** (hereinafter referred to as the assignor), residing at 208 Ukiah Lane, Chapel Hill, North Carolina, 27514, witnesseth:

WHEREAS, said assignor has invented certain new and useful improvements in **KAPPA-OPIATE AGONISTS FOR THE TREATMENT OF DIARRHEA-PREDOMINANT AND ALTERNATING IRRITABLE BOWEL SYNDROME**, set forth in an application for Letters Patent of the United States, bearing Serial No. **12/044,906** and filed on **March 7, 2008**; and

WHEREAS, **Tioga Pharmaceuticals, Inc.**, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 9393 Towne Centre Drive, Suite 200, San Diego, California 92121 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignor, had this sale and assignment not been made.

AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignor is the sole and lawful owner of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that said assignor will, whenever counsel of said assignee, or the counsel of its successor, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignor hereby requests the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

3/20/08
Date


Allen MANGEL