

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT																																
NATURE OF CONVEYANCE:	ASSIGNMENT																																
CONVEYING PARTY DATA																																	
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr><td>David L Lewis</td><td>01/24/2012</td></tr> <tr><td>David B Rozema</td><td>01/24/2012</td></tr> <tr><td>Darren H Wakefield</td><td>01/24/2012</td></tr> <tr><td>Jonathan D Benson</td><td>01/24/2012</td></tr> <tr><td>Andrei V Blokhin</td><td>01/24/2012</td></tr> <tr><td>Jeffrey C Carlson</td><td>01/24/2012</td></tr> <tr><td>Jon A Wolff</td><td>02/28/2012</td></tr> <tr><td>Philipp Hadwiger</td><td>01/30/2012</td></tr> <tr><td>Torsten Hoffmann</td><td>01/25/2012</td></tr> <tr><td>Eric A Kitas</td><td>01/25/2012</td></tr> <tr><td>Peter Mohr</td><td>01/25/2012</td></tr> <tr><td>Kerstin Jahn-Hofmann</td><td>02/07/2012</td></tr> <tr><td>Hans Martin Mueller</td><td>02/10/2012</td></tr> <tr><td>Guenther Ott</td><td>02/07/2012</td></tr> <tr><td>Ingo Roehl</td><td>02/14/2012</td></tr> </tbody> </table>		Name	Execution Date	David L Lewis	01/24/2012	David B Rozema	01/24/2012	Darren H Wakefield	01/24/2012	Jonathan D Benson	01/24/2012	Andrei V Blokhin	01/24/2012	Jeffrey C Carlson	01/24/2012	Jon A Wolff	02/28/2012	Philipp Hadwiger	01/30/2012	Torsten Hoffmann	01/25/2012	Eric A Kitas	01/25/2012	Peter Mohr	01/25/2012	Kerstin Jahn-Hofmann	02/07/2012	Hans Martin Mueller	02/10/2012	Guenther Ott	02/07/2012	Ingo Roehl	02/14/2012
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<table border="1"> <tr><td>Name:</td><td>Arrowhead Madison Inc.</td></tr> <tr><td>Street Address:</td><td>465 Science Drive</td></tr> <tr><td>Internal Address:</td><td>Suite C</td></tr> <tr><td>City:</td><td>Madison</td></tr> <tr><td>State/Country:</td><td>WISCONSIN</td></tr> <tr><td>Postal Code:</td><td>53711</td></tr> </table>		Name:	Arrowhead Madison Inc.	Street Address:	465 Science Drive	Internal Address:	Suite C	City:	Madison	State/Country:	WISCONSIN	Postal Code:	53711																				
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CORRESPONDENCE DATA																																	

OP \$40.00 13336028

Fax Number: (608)441-0741
Phone: 608-316-3896
Email: kirk.ekena@arrowres.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: Arrowhead Madison Inc., Kirk Ekena
Address Line 1: 465 Science Drive
Address Line 2: Suite C
Address Line 4: Madison, WISCONSIN 53711

ATTORNEY DOCKET NUMBER:	27189 US1
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NAME OF SUBMITTER:	Kirk Ekena
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Total Attachments: 16

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ASSIGNMENT

WHEREAS, WE, the undersigned inventors (Assignors) have invented certain new and useful improvements which are described and claimed in application for United States Patent and identified as U.S. Application No. **13/336,028** filed on 23 December 2011, entitled

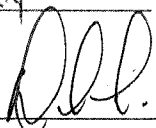
In Vivo Polynucleotide Delivery Conjugates Having Enzyme Sensitive Linkages

WHEREAS, ROCHE MADISON INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at Madison, Wisconsin, is desirous of acquiring the entire interest in and to said invention, said application and the Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned, and set over, and by these presents do hereby sell, assign, and set over unto the said ROCHE MADISON INC. (Assignee), and said Assignee's legal representatives, successors, the entire right, title and interest, for the whole world, in and to said invention and said application, as well as any subsequent application which claims priority based upon the filing date of said application identified as U.S. Application No. **13/336,028** and the patents, both domestic and foreign, that may or shall result therefrom including the right to claim in respect of any subsequent United States and foreign patent applications and patents, the priority date of said application under any United States statute and international convention or treaty; and we do hereby authorize and request the issuance of said patents, domestic and foreign, conformably to the terms of this Agreement.

UPON SAID CONSIDERATION, we do hereby covenant and agree with the said Assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining provisional, original, continuation, continuation-in-part, divisional, reissued, re-examined or extended Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, including but not limited to, giving testimony in any proceedings or transactions involving such applications or patents, and executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

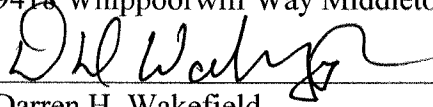
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 24th day
of January 2012.



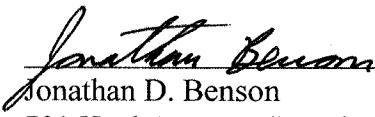
David L. Lewis
505 Maple Avenue, Madison, WI 53704



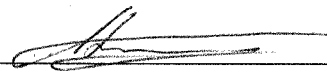
David B. Rozema
9418 Whippoorwill Way Middleton, WI 53562



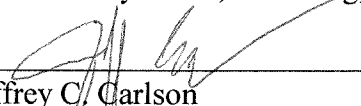
Darren H. Wakefield
3168 Stoneman Drive, Fitchburg, WI 53711



Jonathan D. Benson
701 Hoel Avenue, Stoughton, WI 53589



Andrei V. Blokhin
5770 Dawley Drive, Fitchburg, WI 53711

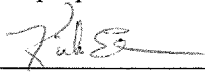


Jeffrey C. Carlson
303 N. Hamilton #309, Madison, WI 53703

ACKNOWLEDGMENT

United States of America]
State of Wisconsin]
County of Dane]

On 24 January 2012, before me personally appeared, David L. Lewis, David B. Rozema, Darren H. Wakefield, Jonathan D. Benson, Andrei V. Blokhin, and Jeffrey C. Carlson, to me known to be the person described in the foregoing Assignment, who acknowledged that he/she executed the foregoing Assignment of his/her own free will for the purposes therein set forth.



Kirk Ekena, Notary Public
My commission expires 10 February, 2013

ASSIGNMENT

WHEREAS, WE, the undersigned inventors (Assignors) have invented certain new and useful improvements which are described and claimed in application for United States Patent and identified as U.S. Application No. **13/336,028** filed on 23 December 2011, entitled

In Vivo Polynucleotide Delivery Conjugates Having Enzyme Sensitive Linkages

WHEREAS, ROCHE MADISON INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at Madison, Wisconsin, is desirous of acquiring the entire interest in and to said invention, said application and the Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned, and set over, and by these presents do hereby sell, assign, and set over unto the said ROCHE MADISON INC. (Assignee), and said Assignee's legal representatives, successors, the entire right, title and interest, for the whole world, in and to said invention and said application, as well as any subsequent application which claims priority based upon the filing date of said application identified as U.S. Application No. **13/336,028** and the patents, both domestic and foreign, that may or shall result therefrom including the right to claim in respect of any subsequent United States and foreign patent applications and patents, the priority date of said application under any United States statute and international convention or treaty; and we do hereby authorize and request the issuance of said patents, domestic and foreign, conformably to the terms of this Agreement.

UPON SAID CONSIDERATION, we do hereby covenant and agree with the said Assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining provisional, original, continuation, continuation-in-part, divisional, reissued, re-examined or extended Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, including but not limited to, giving testimony in any proceedings or transactions involving such applications or patents, and executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 28 day
of Feb 2012.

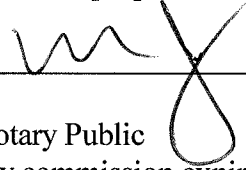


Jon A. Wolff
3506 Lake Mendota Drive, Madison, WI 53705

ACKNOWLEDGMENT

United States of America]
State of Wisconsin]
County of Dane]

On Feb 28 2012, before me personally appeared, Jon A. Wolff, to me known to be
the person described in the foregoing Assignment, who acknowledged that he/she executed
the foregoing Assignment of his/her own free will for the purposes therein set forth.



Notary Public
My commission expires:

ASSIGNMENT

WHEREAS, WE, the undersigned inventors (Assignors) have invented certain new and useful improvements which are described and claimed in application for United States Patent and identified as U.S. Application No. 13/336,028 filed on 23 December 2011, entitled

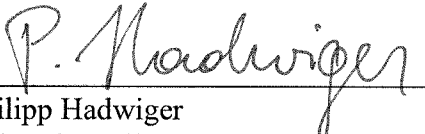
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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned, and set over, and by these presents do hereby sell, assign, and set over unto the said ROCHE MADISON INC. (Assignee), and said Assignee's legal representatives, successors, the entire right, title and interest, for the whole world, in and to said invention and said application, as well as any subsequent application which claims priority based upon the filing date of said application identified as U.S. Application No. 13/336,028 and the patents, both domestic and foreign, that may or shall result therefrom including the right to claim in respect of any subsequent United States and foreign patent applications and patents, the priority date of said application under any United States statute and international convention or treaty; and we do hereby authorize and request the issuance of said patents, domestic and foreign, conformably to the terms of this Agreement.

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IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 30 day
of Jan 2012.



Philipp Hadwiger
Heinrich-Hoffmann-Str. 17, 95326 Kulmbach, Germany

Kerstin Jahn-Hofmann
Stoltzestrasse 39, 63263 Neu-Isenburg, Germany

Guenther Ott
Munckerstrasse 32, 95444 Bayreuth, Germany

Ingo Roehl
Am Bohen Kreuz 1, 96117 Memmelsdorf, Germany

ACKNOWLEDGMENT

ASSIGNMENT

WHEREAS, WE, the undersigned inventors (Assignors) have invented certain new and useful improvements which are described and claimed in application for United States Patent and identified as U.S. Application No. **13/336,028** filed on 23 December 2011, entitled

In Vivo Polynucleotide Delivery Conjugates Having Enzyme Sensitive Linkages

WHEREAS, ROCHE MADISON INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at Madison, Wisconsin, is desirous of acquiring the entire interest in and to said invention, said application and the Patent to be obtained therefor;

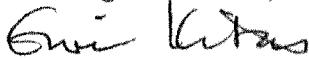
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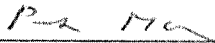
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 25th day
of January 2012.



Torsten Hoffmann
Kleinhüenerstrasse 15, 79576 Weil am Rhein, Germany



Eric A. Kitas
Eichbergweg 4, 4147 Aesch BL, Switzerland



Peter Mohr
Benkenstrasse 26, 4054 Basel, Switzerland

Hans Martin Mueller
Westendstrasse 30, 80339 Muenchen, Germany

ACKNOWLEDGMENT

ASSIGNMENT

WHEREAS, WE, the undersigned inventors (Assignors) have invented certain new and useful improvements which are described and claimed in application for United States Patent and identified as U.S. Application No. **13/336,028** filed on 23 December 2011, entitled

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IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 07 day
of February 2012.

Kerstin Jahn-Hofmann
Kerstin Jahn-Hofmann
Stoltzstrasse 39, 63263 Neu-Isenburg, Germany

ACKNOWLEDGMENT

ASSIGNMENT

WHEREAS, WE, the undersigned inventors (Assignors) have invented certain new and useful improvements which are described and claimed in application for United States Patent and identified as U.S. Application No. 13/336,028 filed on 23 December 2011, entitled

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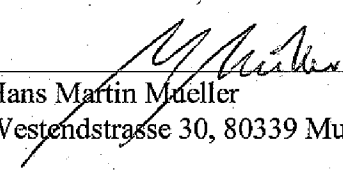
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IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 10 day of February 2012.

Torsten Hoffmann
Kleinhueningstrasse 15, 79576 Weil am Rhein, Germany

Eric A. Kitas
Eichbergweg 4, 4147 Aesch BL, Switzerland

Peter Mohr
Benkenstrasse 26, 4054 Basel, Switzerland


Hans Martin Mueller
Westendstrasse 30, 80339 Muenchen, Germany

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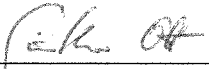
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IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 7 day
of February 2012.



Guenther Ott
Munckerstrasse 32, 95444 Bayreuth, Germany

ACKNOWLEDGMENT

ASSIGNMENT

WHEREAS, WE, the undersigned inventors (Assignors) have invented certain new and useful improvements which are described and claimed in application for United States Patent and identified as U.S. Application No. **13/336,028** filed on 23 December 2011, entitled


In Vivo Polynucleotide Delivery Conjugates Having Enzyme Sensitive Linkages

WHEREAS, ROCHE MADISON INC., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having its principal place of business at Madison, Wisconsin, is desirous of acquiring the entire interest in and to said invention, said application and the Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned, and set over, and by these presents do hereby sell, assign, and set over unto the said ROCHE MADISON INC. (Assignee), and said Assignee's legal representatives, successors, the entire right, title and interest, for the whole world, in and to said invention and said application, as well as any subsequent application which claims priority based upon the filing date of said application identified as U.S. Application No. **13/336,028** and the patents, both domestic and foreign, that may or shall result therefrom including the right to claim in respect of any subsequent United States and foreign patent applications and patents, the priority date of said application under any United States statute and international convention or treaty; and we do hereby authorize and request the issuance of said patents, domestic and foreign, conformably to the terms of this Agreement.

UPON SAID CONSIDERATION, we do hereby covenant and agree with the said Assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining provisional, original, continuation, continuation-in-part, divisional, reissued, re-examined or extended Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, including but not limited to, giving testimony in any proceedings or transactions involving such applications or patents, and executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 19 day
of February 2012.



Ingo Roehl
Am Bohen Kreuz 1, 96117 Memmelsdorf, Germany

ACKNOWLEDGMENT