

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5246691

|   |                                    |
|---|------------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                     |
| <b>NATURE OF CONVEYANCE:</b>  | SECURITY INTEREST                  |
| <b>CONVEYING PARTY DATA</b>   |                                    |
| <b>Name</b>   | <b>Execution Date</b>              |
| SHINE MEDICAL TECHNOLOGIES, INC.  | 11/20/2018                         |
| <b>RECEIVING PARTY DATA</b>   |                                    |
| <b>Name:</b>  | DEERFIELD MANAGEMENT COMPANY, L.P. |
| <b>Street Address:</b>  | 780 THIRD AVENUE, 37TH FLOOR       |
| <b>City:</b>  | NEW YORK                           |
| <b>State/Country:</b>   | NEW YORK                           |
| <b>Postal Code:</b>   | 10017                              |
| <b>PROPERTY NUMBERS Total: 9</b>  |                                    |
| <b>Property Type</b>  | <b>Number</b>                      |
| Application Number:   | 15644497                           |
| Application Number:   | 13575826                           |
| Application Number:   | 13460033                           |
| Application Number:   | 14390658                           |
| Application Number:   | 13373899                           |
| Application Number:   | 13692212                           |
| Application Number:   | 12882962                           |
| Application Number:   | 12810958                           |
| Application Number:   | 12990758                           |
| <b>CORRESPONDENCE DATA</b>  |                                    |
| <b>Fax Number:</b>  | (704)378-4000                      |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                    |
| <b>Phone:</b>   | 7043778156                         |
| <b>Email:</b>   | jcarusone@robinsonbradshaw.com     |
| <b>Correspondent Name:</b>  | JENNIFER CARUSONE                  |
| <b>Address Line 1:</b>  | 101 N. TRYON ST., SUITE 1900       |
| <b>Address Line 2:</b>  | ROBINSON, BRADSHAW & HINSON, P.A.  |
| <b>Address Line 4:</b>  | CHARLOTTE, NORTH CAROLINA 28246    |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 20046.00126                        |
| <b>NAME OF SUBMITTER:</b>   | JENNIFER CARUSONE                  |

PATENT

|   |                     |
|---|---------------------|
| <b>SIGNATURE:</b>   | /Jennifer Carusone/ |
| <b>DATE SIGNED:</b>   | 11/20/2018          |
| <b>Total Attachments: 11</b><br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page1.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page2.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page3.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page4.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page5.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page6.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page7.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page8.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page9.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page10.tif<br>source=Deerfield - SHINE - Grant of Security Interest in Patents and Trademarks#page11.tif |                     |

**GRANT OF SECURITY INTEREST  
IN PATENTS AND TRADEMARKS**

**WHEREAS**, SHINE MEDICAL TECHNOLOGIES, INC. (the “Pledgor”) is the owner of the trademark applications and registrations listed on Schedule A attached hereto, (all such trademarks, registrations and applications, collectively, the “Trademarks”) and is the owner of the patents and patent applications listed on Schedule A attached hereto (all such patents, registrations and applications, collectively, the “Patents”); and

**WHEREAS**, the Pledgor has entered into a Pledge and Security Agreement (as amended, modified, restated or supplemented from time to time, the “Security Agreement”), dated as of November 20, 2018, in which the Pledgor has agreed with Deerfield Management Company, L.P., as Collateral Agent (the “Collateral Agent”), with offices at 780 Third Avenue, 37th Floor, New York, New York 10017, to execute this Grant;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as security for the payment and performance of the Secured Obligations (as defined in the Security Agreement), the Pledgor does hereby grant to the Collateral Agent a security interest in all of its right, title and interest in and to the Trademarks and the Patents, and the use thereof, together with all proceeds and products thereof and the goodwill of the businesses symbolized by the Trademarks. This Grant has been given in conjunction with the security interest granted to the Collateral Agent under the Security Agreement, and the provisions of this Grant are without prejudice to and in addition to the provisions of the Security Agreement, which are incorporated herein by this reference.

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SHINE MEDICAL TECHNOLOGIES, INC.

By: 

Name: Gregory Piefer

Title: Chief Executive Officer

## Schedule A

## TRADEMARKS AND TRADEMARK APPLICATIONS

|                                     |                               |   |                |                                |
|-------------------------------------|-------------------------------|---|----------------|--------------------------------|
| <u>Owner</u>                        | <u>Mark</u>                   | Application or<br><u>Registration No.</u> | <u>Country</u> | Issue or<br><u>Filing Date</u> |
| SHINE Medical<br>Technologies, Inc. | SHINE Medical<br>Technologies | 5,193,642                                 | USA            | 5/2/2017                       |

## PATENTS AND PATENT APPLICATIONS

| Title  | Owner                            | Inventor          | Country          | CaseType                                | Status    | Application<br>No. | Filing<br>Date/National<br>Phase Entry Date | Publication<br>No./<br>Patent No.      | Publication/Gr<br>ant Date |
|--|----------------------------------|-------------------|------------------|---|-----------|--------------------|---|--|----------------------------|
| DEVICE AND<br>METHOD FOR<br>PRODUCING<br>MEDICAL<br>ISOTOPEs | SHINE<br>Medical<br>Technologies | Gregory<br>Piefer | United<br>States | National<br>phase<br>filing from<br>PCT | Granted   | 12/990,758         | 5/1/2009                                    | US-2011-<br>0096887-A1<br>9,734,926    | 4/28/2011<br>8/15/2017     |
| DEVICE AND<br>METHOD FOR<br>PRODUCING<br>MEDICAL<br>ISOTOPEs | SHINE<br>Medical<br>Technologies | Gregory<br>Piefer | United<br>States | Continuati<br>on                        | Published | 15/644,497         | 7/7/2017                                    | US-2018-<br>0166179-A1                 | 6/14/2018                  |
| DEVICE AND<br>METHOD FOR<br>PRODUCING<br>MEDICAL<br>ISOTOPEs | SHINE<br>Medical<br>Technologies | Gregory<br>Piefer | Belgium          | Designated<br>EP                        | Granted   | 9739965.3          | 5/1/2009                                    | EP2294582<br>(A2)<br>EP2294582<br>(B1) | 3/16/2011<br>8/15/2018     |

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|--|----------------------------|----------------|-------------------------------|--------------------------------|---------|--------------------|------------|--|------------------------|
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Canada                        | National phase filing from PCT | Granted | 2723224            | 11/2/2010  | 2723224                                  | 9/25/2018              |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | PHOENIX NUCLEAR LABS LLC   | Gregory Piefer | China                         | National phase filing from PCT | Granted | 20098012345<br>2.6 | 12/22/2010 | CN10208443<br>4A<br>ZL20098012<br>3452.6 | 6/1/2011<br>1/20/2016  |
| IMPROVED DEVICE AND METHOD FOR PRODUCING NEUTRON GENERATED ISOTOPEs FOR MEDICINE | SHINE Medical Technologies | Gregory Piefer | China                         | Divisional                     | Granted | 20151097687<br>8.3 | 12/23/2015 | CN10557544<br>5A                         | 5/11/2016<br>7/24/2018 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Czechia                       | Designated EP                  | Granted | 9739965.3          | 5/1/2009   | 22945829A2<br>2294582B1                  | 3/16/2011<br>8/15/2018 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Germany (Federal Republic of) | Designated EP                  | Granted | 9739965.3          | 5/1/2009   | 22945829A2<br>2294582B1                  | 3/16/2011<br>8/15/2018 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Europe                        | National phase filing from PCT | Granted | 09739965.3         | 12/1/2010  | 22945829A2<br>2294582B1                  | 3/16/2011<br>8/15/2018 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Spain                         | Designated EP                  | Granted | 9739965.3          | 5/1/2009   | 22945829A2<br>2294582B1                  | 3/16/2011<br>8/15/2018 |

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|--|----------------------------|----------------|----------------|--------------------------------|-------------|------------------|------------|---|
| MEDICAL ISOTOPEs   |                            |                |                |                                |             |                  |            |   |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | France         | Designated EP                  | Granted     | 9739965.3        | 5/1/2009   | 22945829A2<br>2294582B1<br>3/16/2011<br>8/15/2018 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | United Kingdom | Designated EP                  | Granted     | 9739965.3        | 5/1/2009   | 22945829A2<br>2294582B1<br>3/16/2011<br>8/15/2018 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Hong Kong      | Confirmation                   | Granted     | 11113063.2       | 12/1/2011  | 1158811A<br>1158811<br>7/20/2012<br>8/26/2016     |
| IMPROVED DEVICE AND METHOD FOR PRODUCING NEUTRON GENERATED ISOTOPEs FOR MEDICINE | SHINE Medical Technologies | Gregory Piefer | Hong Kong      | Confirmation                   | Application | 16113017.4       | 11/11/2016 |   |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | India          | National phase filing from PCT | Application | 4235/KOLNP /2010 | 11/11/2010 |   |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Italy          | Designated EP                  | Granted     | 9739965.3        | 5/1/2009   | 22945829A2<br>2294582B1<br>3/16/2011<br>8/15/2018 |

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| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Japan           | National phase filing from PCT | Granted | 2011-507694     | 11/1/2010 | 2011-522226<br>5793418        | 7/28/2011<br>8/14/2015 |
| IMPROVED DEVICE AND METHOD FOR PRODUCING NEUTRON GENERATED ISOTOPEs FOR MEDICINE | SHINE Medical Technologies | Gregory Piefer | Japan           | Divisional                     | Granted | 2013-249823     | 5/1/2009  | 2014-44214<br>6130289         | 3/13/2014<br>4/21/2017 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Korea           | National phase filing from PCT | Granted | 10-2010-7027045 | 12/1/2010 | 10-2011-0031278<br>10-1673954 | 3/25/2011<br>11/2/2016 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Netherla<br>nds | Designated EP                  | Granted | 9739965.3       | 5/1/2009  | 22945829A2<br>2294582B1       | 3/16/2011<br>8/15/2018 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Poland          | Designated EP                  | Granted | 9739965.3       | 5/1/2009  | 22945829A2<br>2294582B1       | 3/16/2011<br>8/15/2018 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Russia          | National phase filing from PCT | Granted | 2010148920      | 12/2/2010 | 2010148920<br>2494484         | 9/27/2013              |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs                                 | SHINE Medical Technologies | Gregory Piefer | Turkey          | Designated EP                  | Granted | 9739965.3       | 5/1/2009  | 22945829A2<br>2294582B1       | 3/16/2011<br>8/15/2018 |



|  |                            |  |               |  |             |                    |            |                                  |
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| MEDICAL ISOTOPE  |                            |  |               |  |             |                    |            |                                  |
| SEGMENTED REACTION CHAMBER FOR RADIOISOTOPE PRODUCTION       | SHINE Medical Technologies | Gregory Piefer, Thomas Rockwell Mackie | United States | National phase filing from PCT           | Published   | 13/575,826         | 1/28/2011  | US-2012-0300890-A1<br>11/29/2012 |
| METHODS OF SEPARATING MEDICAL ISOTOPE FROM URANIUM SOLUTIONS | SHINE Medical Technologies | Gregory Piefer                         | United States | Secondary National phase filing from PCT | Published   | 13/460,033         | 4/30/2012  | US-2012-0300891-A1<br>11/29/2012 |
| AQUEOUS ASSEMBLY AND CONTROL METHOD                          | SHINE Medical Technologies | Gregory Piefer, Eric N. Van Abel       | United States | National phase filing from PCT           | Published   | 14/390,658         | 3/15/2013  | US-2015-0092900-A1<br>4/2/2015   |
| AQUEOUS ASSEMBLY AND CONTROL METHOD                          | SHINE Medical Technologies | Gregory Piefer, Eric N. Van Abel       | Canada        | National phase filing from PCT           | Application | 2869559            | 10/3/2014  |                                  |
| AQUEOUS ASSEMBLY AND CONTROL METHOD                          | SHINE Medical Technologies | Gregory Piefer, Eric N. Van Abel       | China         | National phase filing from PCT           | Allowed     | 20138001886<br>5.4 | 3/15/2013  | CN10432162<br>3A<br>1/28/2015    |
| AQUEOUS ASSEMBLY AND CONTROL METHOD                          | SHINE Medical Technologies | Gregory Piefer, Eric N. Van Abel       | Hong Kong     | Confirmation                             | Application | 15101968.9         | 2/27/2015  | 1201575A1                        |
| AQUEOUS ASSEMBLY AND CONTROL METHOD                          | SHINE Medical Technologies | Gregory Piefer, Eric N. Van Abel       |               | National phase filing from PCT           | Application | 9137/DELNP /2014   | 10/31/2014 |                                  |

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|---|---|--|---------------|--------------------------------|-------------|-------------------|------------|-----------------------------|---------------------|
| AQUEOUS ASSEMBLY AND CONTROL METHOD                 | SHINE Medical Technologies  | Gregory Piefer, Eric N. Van Abel                         | Korea         | National phase filing from PCT | Published   | 10-2014-7031068   | 11/4/2014  | 10-2015-0023245             | 3/5/2015            |
| AQUEOUS ASSEMBLY AND CONTROL METHOD                 | SHINE Medical Technologies  | Gregory Piefer, Eric N. Van Abel                         | Russia        | National phase filing from PCT | Granted     | 2014144290        | 3/15/2013  | 2014144290 2649662          | 5/27/2016 4/5/2018  |
| APARATUS AND METHOD FOR GENERATING MEDICAL ISOTOPES | Wisconsin Alumni Research Foundation and SHINE Medical Technologies | Gregory Piefer, Thad Heltemes, Ross Radel, Eric Van Abel | USA           |                                | Application | 13/373,899        | 12/05/2011 | US20130142 296A1            | 6/6/2013            |
| APARATUS AND METHOD FOR GENERATING MEDICAL ISOTOPES | Wisconsin Alumni Research Foundation                                | Gregory Piefer, Thad Heltemes, Ross Radel, Eric Van Abel | WIPO (IS PCT) |                                | Expired     | PCT/US2012/066214 | 11/21/2012 | WO2013119 299               |                     |
| APARATUS AND METHOD FOR GENERATING MEDICAL ISOTOPES | Wisconsin Alumni Research Foundation                                | Gregory Piefer, Thad Heltemes, Ross Radel, Eric Van Abel | China         |                                | Granted     | 20128006736 3.6   | 11/21/2012 | CN10432182 4A CN10432182 4B | 1/28/2015 2/22/2014 |
| APARATUS AND METHOD FOR GENERATING                  | Wisconsin Alumni Research Foundation                                | Gregory Piefer, Thad Heltemes                            | India         |                                |             | 4495/DELNP /2014  | 11/23/2012 |                             |                     |

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|--|---------------------------------------|--|---------------|---------|-------------------|------------|---------------------------|------------------------|
| MEDICAL ISOTOPEs                                       |                                       | , Ross Radel, Eric Van Abel                              |               |         |                   |            |                           |                        |
| APARATUS AND METHOD FOR GENERATING MEDICAL ISOTOPEs    | Wisconsin Alumni Research Foundation  | Gregory Piefer, Thad Heltemes, Ross Radel, Eric Van Abel | Japan         | Granted | 2014-545927       | 11/21/2012 | 2015510103 A<br>6236012B2 | 4/2/2015<br>11/22/2017 |
| APARATUS AND METHOD FOR GENERATING MEDICAL ISOTOPEs    | Wisconsin Alumni Research Foundation  | Gregory Piefer, Thad Heltemes, Ross Radel, Eric Van Abel | Russia        | Granted | 2014122587        | 11/21/2012 | 2014122587 A<br>2625342C2 | 1/27/2016<br>7/13/2017 |
| DRY PHASE REACTOR FOR GENERATING MEDICAL ISOTOPEs      | Wisconsin Alumni Research Foundation  | Thomas (Rock) Mackie, Thad Heltemes                      | USA           | Granted | 13/692212         | 12/3/2012  | 20140153684<br>9330800    | 6/5/2014<br>5/3/2016   |
| DRY PHASE REACTOR FOR GENERATING MEDICAL ISOTOPEs      | Wisconsin Alumni Research Foundation  | Thomas (Rock) Mackie, Thad Heltemes                      | WIPO (IS PCT) | Expired | PCT/US2013/070750 | 11/19/2013 | WO20141266<br>23          |                        |
| APPARATUS AND PROCESS FOR SEPARATING HYDROGEN ISOTOPEs | Savannah River Nuclear Solutions, LLC | Leung K. Heung, Henry T. Sessions, Xin Xiao              | USA           | Granted | 12/882,962        | 9/15/2010  | 2012006088<br>8470073     | 3/15/2012<br>6/25/2013 |

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|--|---------------------------------------|---|-------------------|--|---------|-------------------|------------|---------------------------------|-------------------------|
| PROCESS FOR SEPARATING HYDROGEN ISOTOPES | Savannah River Nuclear Solutions, LLC | Leung K. Heung, Henry T. Sessions, Xin Xiao | WIPO (IS PCT)     |  | Expired | PCT/US2011/001606 | 9/15/2011  | WO2012036749                    |                         |
| HIGH ENERGY PROTON OR NEUTRON SOURCE     | PHOENIX, LLC                          | Gregory Piefer                              | USA               |  | Granted | 12/8/10,958       | 12/29/2008 | 201002845028837662              | 11/11/2010<br>9/16/2014 |
| HIGH ENERGY PROTON OR NEUTRON SOURCE     | PHOENIX NUCLEAR LABS, LLC             | Gregory Piefer                              | Canada            |  | Granted | 2710985           | 6/28/2010  | CA2710985A1<br>CA2710985C       | 3/21/2017               |
| HIGH ENERGY PROTON OR NEUTRON SOURCE     | PHOENIX NUCLEAR LABS, LLC             | Gregory Piefer                              | China             |  | Granted | 200880125694.4    | 7/27/2010  | CN101952899A<br>CN101952899B    | 1/19/2011<br>5/28/2014  |
| HIGH ENERGY PROTON OR NEUTRON SOURCE     | PHOENIX NUCLEAR LABS, LLC             | Gregory Piefer                              | Europe            |  | Granted | 08874437.0        | 7/28/2010  | EP2236016A2<br>EP2236016B1      | 10/6/2010<br>8/9/2017   |
| HIGH ENERGY PROTON OR NEUTRON SOURCE     | PHOENIX, LLC                          | Gregory Piefer                              | India             |  |         | 2615/KOLNP/2010   | 7/16/2010  |                                 |                         |
| HIGH ENERGY PROTON OR NEUTRON SOURCE     | PHOENIX NUCLEAR LABS, LLC             | Gregory Piefer                              | Japan             |  | Granted | 2010-540933       | 6/24/2010  | JP20111508885A<br>JP5653757B2   | 3/17/2011<br>1/14/2015  |
| HIGH ENERGY PROTON OR NEUTRON SOURCE     | PHOENIX NUCLEAR LABS, LLC             | Gregory Piefer                              | Republic of Korea |  | Granted | 10-2010-7016871   | 7/27/2010  | KR20100103652A<br>KR101591688B1 | 9/27/2010<br>2/4/2016   |
| HIGH ENERGY PROTON OR                    | PHOENIX, LLC                          | Gregory Piefer                              | Patent Cooperat   |  | Expired | PCT/US2008/088485 | 12/29/2008 | WO2009142669                    |                         |

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| NEUTRON SOURCE                                       |                                      |  | ion Treaty         |                                |           |                 |            |                              |                         |
| HIGH ENERGY PROTON OR NEUTRON SOURCE                 | PHOENIX, LLC                         | Gregory Piefer   | Russian Federation |                                | Granted   | 2010126346      | 7/28/2010  | RU2010126346A<br>RU2496285C2 | 2/10/2012<br>10/20/2013 |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs     | SHINE Medical Technologies           | Gregory Piefer   | Japan              | National phase filing from PCT | Published | 2016-249660     | 12/22/2016 | 2017053872A                  | 3/16/2017               |
| DEVICE AND METHOD FOR PRODUCING MEDICAL ISOTOPEs     | SHINE Medical Technologies           | Gregory Piefer   | Korea              | National phase filing from PCT | Published | 20167015856     | 5/1/2009   | KR 20160072846A              | 6/23/2016               |
| APPARATUS AND METHOD FOR GENERATING MEDICAL ISOTOPEs | Wisconsin Alumni Research Foundation | Gregory Piefer, Thad Heltemes, Ross Radel, Eric Van Abel | China              |                                | Published | 20171000374 2.3 | 11/21/2012 | CN10708605 5A                | 8/22/2017               |