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| **ISURF Number:** |  | **Date Received:** |  |  |
| **Ames Lab Number:** |  | **Date Received:** |  |  |
| **Other Number:** |  |  |  |  |
| **ISURF Title:** |  | | |  |
| **(THIS BOX FOR OFFICE USE ONLY)** | | | | |

20201103

**Iowa State University**

**Intellectual Property Disclosure and Record (IPDR)**

Information on completing the IPDR can be found in the [instructions](#Instr_Top).

***If you have questions contact:***

***Non-Ames Laboratory***: Tim L. Shuck – *Disclosure Coordinator,* (515)-294-3113, [tlshuck@iastate.edu](mailto:tlshuck@iastate.edu?subject=IPDR)

***Ames Laboratory Employees and/or Ames Laboratory/DOE funded inventions***:

Beth Pieper, *Program Coordinator,* (515)-294-6486, [pieper@ameslab.gov](mailto:pieper@ameslab.gov)

***To submit the completed IPDR:***

Non-Ames Laboratory: [inventiondisclosure@iastate.edu](mailto:inventiondisclosure@iastate.edu)

Ames Laboratory: [pieper@ameslab.gov](mailto:pieper@ameslab.gov)

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| --- |
| I. DESCRIPTION OF INVENTION |
| 1. Title of invention (ISURF may modify the title) |
| 1. Please provide a brief, **non-confidential summary** stating how it is new and useful. |
| 1. Copy below, or attach as a clearly identified document, a detailed text description of the invention (manuscript, proposals, etc.; figures within the text are fine) **of at least two pages**. |
| 1. Date of conception of the invention. Has this date been documented? **If so, please attach documentation of the conception date** such as email or lab notebook page copy. |
| 1. Please identify any [Prior Art](#Instr_PriorArt) references of which you are aware. |

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| II. PREVIOUS AND/OR FUTURE PUBLIC DISCLOSURES |
| ***Please attach copies of referenced documents.*** Identification of possible public disclosures is not an admission that an invention was publicly available**. Leave THIS SECTION blank if there have been no public disclosures.**     |  |  |  | | --- | --- | --- | | [POSSIBLE PUBLIC DISCLOSURE](#Instr_PublicDisc)S\* | WHERE (TITLE/PLACE/URL) | PAST/PLANNED DATE | | Journal Article |  |  | | Conference Abstract |  |  | | Oral Presentation (if thesis defense or graduate seminar, please include student name and date of defense or projected graduation) |  |  | | Poster Presentation |  |  | | Disclosure to Industry |  |  | | Grant Proposal |  |  | | Web Posting/Blog (including Departmental) |  |  | | Sale/Demonstration or Public Use |  |  | | Other |  |  | |

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| III. SPONSORSHIP AND SUPPORT |
| 1. **ALL SPECIALIZED FUNDING:  *(To select a box: right click on the box, Properties, Not checked or Checked)***  |  |  |  |  | | --- | --- | --- | --- | | Regents Innovation (RIF): | YES | NO | ISU Account Number: | | ISU Foundation: | YES | NO | ISU Account Number: | |
| 1. **Name of industry, foundation, commodity groups, research consortia, or other sponsor (for example: CNDE, Iowa Soybean Association, USB, Iowa Corn Promotion Board, etc.):**  |  |  | | --- | --- | | Name | ISU Account Number | |  |  | |  |  | |
| 1. **OTHER INTERNAL ISU FUNDING: (List all that apply; include ISU account number if applicable. Examples include incentive account, start-up account, salary account, a foundation account, or other college/department funding)**  |  |  | | --- | --- | | Name: | ISU Account Number: | |  |  | |  |  | |  |  | |
| 1. **FEDERAL GOVERNMENT FUNDING**  ***(To select a box: right click on the box, Properties, Not checked or Checked)***     **For Ames Laboratory IPDRs, contact:** Beth Pieper, Program Coordinator, (515)-294-6486, [pieper@ameslab.gov](mailto:pieper@ameslab.gov)  **DOE – Ames Lab**: DE-AC02-07CH11358  NOTE: Please see instructions on [submitting IPDR & attachments directly to Ames Lab](#Instr_AL_Submit)  B&R Code or AL Acct # (required):  For Ames Laboratory  Office of Intellectual Property Use Only:  Forwarded by:  Date:  CRADA number:  WFO (Work For Others) #:    **Non-Ames Lab Federal Funding:**   |  |  |  | | --- | --- | --- | | AGENCY | CONTRACT/GRANT # (if known) | ISU ACCOUNT # | | DOE (Non-Ames Lab) |  |  | | NASA |  |  | | NIH |  |  | | NSF |  |  | | USDA |  |  | | OTHER: |  |  | |
| 1. **Please see instructions for additional information on** [**FUNDING**](#Instr_Funding) **before checking this box**   **NO outside funding was used in the development of this technology.** |

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| IV. TRANSFERRED MATERIALS |
| **Were** [**non-ISU-owned materials**](#Instr_NonISUMaterials) **(e.g. biological, chemical, software, equipment) were used in developing the invention? *(To select a box: right click on the box, Properties, Not checked or Checked)*.**  NONE used  The following [non-ISU-owned materials](#Instr_NonISUMaterials) were used:   |  |  |  | | --- | --- | --- | | **Source** | **Materials** | **Is there a license/agreement?**  **If yes, please attach** | |  |  | **Yes**  **No**  **Unsure** | |  |  |  | |

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| V. SIGNATURES AND ASSIGNMENT |
| **CONTRIBUTORS**  Below, please [list the names](#Instr_ListTheNames) and titles of all contributors to this invention and **obtain only the signatures for all ISU contributors**. Inventorship will be determined at the time a patent application is filed if necessary; for information on inventorship determination, please see [inventorship details.](#Instr_InventorshipDetails) |
| **ISU CONTRIBUTOR**  **BY SIGNATURE BELOW AND IN ACCORDANCE WITH ISU AND/OR AMES LABORATORY POLICIES, I *HEREBY ASSIGN TO ISURF ALL INTELLECTUAL PROPERTY RIGHTS, TITLES, AND INTERESTS* IN THIS INVENTION/CREATION.** |

**Copy and paste the ISU CONTRIBUTOR and NON-ISU CONTRIBUTOR tables if more space is needed for additional contributors. *To select a box: right click on the box, Properties, Not checked or Checked*.**

|  |  |  |  |
| --- | --- | --- | --- |
| Dr.  Mr.  Ms.  Other | | | **Primary Contact for this disclosure:** Yes  No |
| Full Name: |  | | |
| Citizenship: |  | | |
| Dept/Affiliation: |  | | |
| Office Address: |  | | |
| Office City/State/Zip: |  | | |
| Office Phone: |  | | |
| Office email: |  | | |
| **Signature of ISU contributor** | |  | |
| **Date signed** | |  | |
| **In one or two paragraphs describe contribution (do not use “inventor” in the description):** | |  | |

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| --- | --- | --- | --- |
| Dr.  Mr.  Ms.  Other | | | **Primary Contact for this disclosure:** Yes  No |
| Full Name: |  | | |
| Citizenship: |  | | |
| Dept/Affiliation: |  | | |
| Office Address: |  | | |
| Office City/State/Zip: |  | | |
| Office Phone: |  | | |
| Office email: |  | | |
| **Signature of ISU contributor** | |  | |
| **Date signed** | |  | |
| **In one or two paragraphs describe contribution (do not use “inventor” in the description):** | |  | |

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| --- | --- | --- | --- |
| Dr.  Mr.  Ms.  Other | | | **Primary Contact for this disclosure:** Yes  No |
| Full Name: |  | | |
| Citizenship: |  | | |
| Dept/Affiliation: |  | | |
| Office Address: |  | | |
| Office City/State/Zip: |  | | |
| Office Phone: |  | | |
| Office email: |  | | |
| **Signature of ISU contributor** | |  | |
| **Date signed** | |  | |
| **In one or two paragraphs describe contribution (do not use “inventor” in the description):** | |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| Dr.  Mr.  Ms.  Other | | | **Primary Contact for this disclosure:** Yes  No |
| Full Name: |  | | |
| Citizenship: |  | | |
| Dept/Affiliation: |  | | |
| Office Address: |  | | |
| Office City/State/Zip: |  | | |
| Office Phone: |  | | |
| Office email: |  | | |
| **Signature of ISU contributor** | |  | |
| **Date signed** | |  | |
| **In one or two paragraphs describe contribution (do not use “inventor” in the description):** | |  | |

|  |  |
| --- | --- |
| **NON-ISU CONTRIBUTOR** | |
| Dr.  Mr.  Ms.  Other | |
| Full Name: |  |
| Citizenship (if known): |  |
| Affiliation: |  |
| **In one or two paragraphs describe contribution (do not use “inventor” in the description):** |  |

|  |  |
| --- | --- |
| **NON-ISU CONTRIBUTOR** | |
| Dr.  Mr.  Ms.  Other | |
| Full Name: |  |
| Citizenship (if known): |  |
| Affiliation: |  |
| **In one or two paragraphs describe contribution (do not use “inventor” in the description):** |  |

**INSTRUCTIONS**

**[<Return to Form>](#Form__Top)**

**SUBMITTING THE IPDR:** If an Ames Laboratory employee is a Contributor, or if there is Ames Laboratory funding identified, please submit utilizing Submission “B” instructions below. Otherwise, utilize Submission “A” instructions.

**A. Submission instructions for ISU employees**

1. Print this IPDR and save an electronic copy for future reference.

2. Obtain signatures of, or provide a **current** email address for DocuSign, for **all** ISU Contributors.

3. Submit the signed IPDR one of the following ways:

A. Electronically signed copy to [inventiondisclosure@iastate.edu](mailto:inventiondisclosure@iastate.edu)

B. Contact Tim at (515)-294-3113 or [tlshuck@iastate.edu](mailto:tlshuck@iastate.edu) if you have questions.

**B. Submission instructions for Ames Lab Employees and/or Ames Lab/DOE funded inventions**

[**<Return to Form>**](#Form_AL_Funding)

1. Fill out the IPDR form.

2. Email the IPDR form and any attachments to:

Beth Pieper, Ames Laboratory, [pieper@ameslab.gov](mailto:pieper@ameslab.gov)

305 TASF, Ames, IA 50011

Direct phone: 515-294-6486

3. Beth will review for completeness, print, obtain signatures, and submit to ISURF.

**\*\*\* A paper copy is not required if a signed electronic copy is submitted. \*\*\***

**ADDITIONAL INSTRUCTIONS AND INFORMATION**

[**<Return to Form>**](#Form_Top)

**Iowa State University**

**Intellectual Property Disclosure and Record (IPDR)**

The Intellectual Property Disclosure and Record (IPDR) provides information that the Office Of Intellectual Property and Technology Transfer (OIPTT) and the Iowa State University Research Foundation (ISURF) need to evaluate your invention/creation. The form is also used as the Ames Laboratory Record of Invention.

Additional information is available in the ISU Intellectual Property Handbook located on our web site at:

<http://www.techtransfer.iastate.edu/en/for_iowa_state/educational_resources/>

It is important that you provide the most comprehensive and complete disclosure possible so that OIPTT/ISURF can make an informed decision on how to proceed with your disclosure. The more complete the disclosure, the more

quickly we can provide a response to you. Text fields will expand—use as many lines as you need to adequately answer the question. If you have prepared documents that answer a question, you may reference those and attach copies. It will be very helpful if you can provide attachments in electronic form.

**PRIOR ART** [**<Return to Form>**](#Form_PriorArt)

"Prior Art" refers to the existing body of technical information (some of which may be identified in scholarly works through literary searches) against which an invention is judged to determine if it is patentable (novel, non-obvious, and useful), and includes prior knowledge or use or sale, prior patents or printed publications, by the inventor or other persons.

**PUBLIC DISCLOSURE** [**<Return to Form>**](#Form_PubDisc)

Any of the following may be considered a public disclosure, could vitiate foreign rights and create a U.S. bar date:

* Publish in a paper, or on the web
* Use the invention in a public setting
* Make a written or oral presentation, such as at a conference, symposium or gathering
* Thesis defense seminar
* Publish in a non-confidential federal grant proposal (when funded, it may become public)
* Non-federal funding proposals
* Disclose to a colleague at another institution, or to a collaborator at a private company, without a confidentiality agreement in place
* Distribute tangible material containing the invention without a confidentiality agreement, if the novel components of the invention can be ascertained or re-engineered
* Offer the invention for sale (note that this “on-sale” bar does not apply to the typical practice of an offer from a university for a license, however, this bar could come in to play if the inventor actually offers his/her invention for sale, not just license rights)

In the United States, the opportunity to obtain patent protection remains for one year after a public disclosure, use, or offer of sale. Outside the United States absolute novelty is generally required, and any public disclosure, use, or sale will immediately bar patent rights in most foreign countries.

Please include all past public disclosures and future planned public disclosures. Note that in some cases even the title of a publication alone may constitute a public disclosure if it either describes important aspects of the invention or enables one skilled in the art to duplicate the invention without undue experimentation.

Please provide a copy of what you have presented or will be presenting. If you have a manuscript or abstract ready for submission describing the invention/creation, please forward a copy to us and identify the journal or conference where the manuscript will/did appear, including relevant dates. Be sure to include the dates and URL of any web publications, if you have them. **Many times abstracts and articles are posted to the web prior** to the full online or print distribution.

***It is very important that you inform us if you make plans for any additional public disclosures of this invention/creation after submitting this form!!***

**FUNDING** [**<Return to Form>**](#Form_No_Funding)

Through contracts with the University, most sponsors have obtained intellectual property rights and thus require notification when an invention or a creation is made. It is IMPORTANT, therefore, that ALL sources of funding utilized in the conception, creation, or enablement of the invention/creation, including contributors’ salaries, be reported to this office. You are therefore **REQUIRED to disclose ALL external funding** **sources**.

**NON-ISU-OWNED MATERIALS** [**<Return to Form>**](#Form_NonISUMaterials)

Non-ISU-owned materials may include items received as a gift or obtained with or without a written agreement. “Strings” or conditions of use may also have been discussed in e-mail exchanges. Please attach any relevant emails or other documents such as licenses or material contracts. Examples include:

* advanced materials that may have been used as base materials or substrates for surface modification, coating, or chemical or physical alteration
* animals, plants, and viruses
* catalysts
* combinatorial chemical libraries
* DNA materials including gene libraries, vectors, plasmids, and other sequences
* enzymes, monoclonal antibodies, and other proteins
* eukaryotic and prokaryotic cultures (animal and plant cell lines, yeasts, bacteria, and other microorganisms)
* fluorophores, labels or "tags"
* microarrays
* open source licenses
* purification methods
* reagents
* RNA materials including RNA libraries
* software development tool license

**LISTING OF NAMES** [**<Return to Form>**](#Form_Contrib)

Please be advised that inventorship is a legal determination that will be made at the appropriate time(s) by the patent counsel. Although there is no legal significance to the order of names on a patent application or an issued patent, you may consult with the others who are purported to be inventors, and submit their names in the order you would prefer them to appear on a patent application, if one is filed. By signing the IPDR, all purported inventors are agreeing to this order. ISURF cannot guarantee that the order presented in the IPDR will result in an application or patent with names in the order originally presented. Further, the opportunity to provide an order of names does not imply in any or all of the purported inventors, a property right in having the names in a particular order.

**INVENTORSHIP DETAILS** [**<Return to Form>**](#Form_Contrib)

Thisdoes not include individuals that solely provided funding, research materials, equipment, assistance in routine statistical analyses, assistance in routine testing, and standard protocols, or individuals that bring to one’s attention the existence of a problem but not the solution.

If a faculty member, staff member, student, visiting scientist, or visiting scholar made his/her contribution to the invention while at ISU (even if the person is no longer associated with ISU), they are considered an ISU Contributor—Please check the “ISU” box.

A current ISU employee that made his/her contribution while employed elsewhere is NOT considered an ISU Contributor—Please check the “Non-ISU” box.