

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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Assignment ID: PATI251046

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Lynn J. Rothschild	08/22/2022
Advait Avinash Patil	05/20/2024
Universities Space Research Association	05/21/2024
<b>RECEIVING PARTY DATA</b>	
<b>Company Name:</b>	United States of America as Represented by the Administrator of NASA
<b>Street Address:</b>	300 E Street SW
<b>City:</b>	Washington
<b>State/Country:</b>	DISTRICT OF COLUMBIA
<b>Postal Code:</b>	20546
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	62916179
<b>Application Number:</b>	17073226
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	6506042767
<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>	6506040887
<b>Email:</b>	raiza.n.singh@nasa.gov
<b>Correspondent Name:</b>	Raiza Singh
<b>Address Line 1:</b>	NASA Ames Research Center
<b>Address Line 2:</b>	Mail Stop 202A-4
<b>Address Line 4:</b>	Moffett Field, CALIFORNIA 94035
<b>ATTORNEY DOCKET NUMBER:</b>	ARC-18467-1
<b>NAME OF SUBMITTER:</b>	Raiza Singh
<b>SIGNATURE:</b>	Raiza Singh
<b>DATE SIGNED:</b>	05/22/2024
<b>Total Attachments: 3</b>	
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National Aeronautics and  
Space Administration

Patent Application

## ASSIGNMENT TO THE U.S. GOVERNMENT

(Small Business or Nonprofit Organization)

Title of Invention: Functionalizing Biological Substrates with Bioengineered Peptides to Bind Targeted Molecules  
NASA Case No.: ARC-18467-1  
Serial No. and Filing Date: U.S. Provisional Application 62/916,179 filed October 16, 2019  
U.S. Non-Provisional Application 17/073,226 filed October 16, 2020  
Contractor: Universities Space Research Association  
Contract Number: NNA16BD14C

WHEREAS, the above identified Contractor has elected not to retain title, or hereby elects not to retain title, under the provisions of 35 U.S.C. 202 to the above identified Invention made in the performance of work under the above identified Contract between the Contractor and the Government of the United States of America (the Government).

WHEREAS, the Government as represented by the Administrator of the National Aeronautics and Space Administration (NASA), is desirous of acquiring title to the above identified Invention and other rights and benefits herein granted.

NOW THEREFORE, the undersigned inventor(s) have assigned or hereby assign to the Contractor his/her entire right, title, and interest throughout the world in and to the Invention as disclosed in the above identified U.S. patent application and patent applications continuing therefrom and such Letters Patent as may issue therefrom. Subsequently, the Contractor hereby assigns to the Government, as represented by the Administrator of NASA, its entire right, title, and interest throughout the world in and to the Invention as disclosed in the above identified U.S. patent application and patent applications continuing therefrom and such Letters Patent as may issue therefrom, subject to the reservation to the Contractor of a nonexclusive royalty-free license throughout the world.

The undersigned inventor(s) and the Contractor agree to provide to the Government any known relevant information, including prior art, that is material to the patentability of the Invention. Upon request, the undersigned inventor(s) and the Contractor agree to make, execute, and/or deliver to the Government any oaths, declarations, and assignments, and, at the expense of the Government, any and all data, drawings, notes, reports, information, papers, documents, affidavits, statements or other items necessary in the preparation and prosecution of the above identified patent application and of any applications continuing therefrom or applications for reissue or reexamination of said Letters Patent, or of any foreign patent or patent application, or any application continuing therefrom, and to assist the Government in every way in protecting the Invention as may be requested, provided that any expense arising through such assistance to protect the Invention will be paid by the Government.

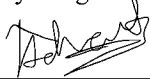
Title of Invention:	Functionalizing Biological Substrates with Bioengineered Peptides to Bind Targeted Molecules
NASA Case No.:	ARC-18467-1
Serial No. and Filing Date:	U.S. Provisional Application 62/916,179 filed October 16, 2019 U.S. Non-Provisional Application 17/073,226 filed October 16, 2020

The undersigned inventor(s) and Contractor hereby covenant that they have the right to grant the foregoing assignment.

For the Inventor(s):

**Inventor 1 Name: Advait Avinash Patil**

I have not previously assigned any of my rights in the Invention, and I hereby agree as stated above.

Signature:  Date: May 20th, 2024

**- or -**

Attached hereto is an assignment of my entire rights in the Invention to the Contractor, signed on or before the date this Assignment to the U.S. Government is executed by the Contractor below. As stated above, I agree to assist the Government with patenting and protecting the Invention.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

For the Contractor:

On behalf of the Contractor, I hereby agree as stated above. (Signed and dated on or after the latest date executed by the above-identified inventor(s).)

Name: Elena Einstein

Title: Director, Contracts and Grants

Signature: Elena Einstein Digitally signed by Elena Einstein  
Date: 2024.05.21 14:12:05 -07'00'

Date: 5/21/2024

## Assignment to the Government (by Government Employee)

Title of Invention: FUNCTIONALIZING BIOLOGICAL SUBSTRATES WITH BIOENGINEERED  
PEPTIDES TO BIND TARGETED MOLECULES

Inventor(s): Lynn J. Rothschild, Jesica Urbina, Advait A. Patil

NASA Case No.: ARC-18467-1

Application No.\*: 17/073,226

Filing Date\*: 10/16/2020

WHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States Government (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration;

WHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and

WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for United States Patent on the above-entitled invention.

NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby:

1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and any corresponding continuation or divisional application(s) and any patent(s) that may issue therefrom.

2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in that country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of a nonexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on such invention.

3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect any interest transferred by this Assignment and Agreement.

\*4. Authorize and request the attorneys of record in the application to insert the application number and filing date above when required.

**LYNN ROTHSCHILD** Digitally signed by LYNN ROTHSCHILD  
Date: 2022.08.22 17:15:26 -07'00'

08/22/2022

*Date Assignment Executed*

Lynn J. Rothschild

Name of Inventor

*Date Oath/Declaration Executed*

NASA Ames Research Center, M/S 239-20, Moffett Field, CA 94035,  
USA

Mailing Address - Including Country