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PATENT ASSIGNMENT COVER SHEET

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CONVEYING PARTY DATA

Name	Execution Date
IOWA STATE UNIVERSITY	10/19/2017

RECEIVING PARTY DATA

Name:	National Science Foundation
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15681909

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> **PATENT** 504604488

REEL: 044255 FRAME: 0493

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison). Invention Title: TAL Effector-Mediated DNA Modification Inventor(s): Adam J Bogdanove, Feng Zhang, Daniel F Voytas U.S. Filing/Issue Date: 08/21/2017 Patent or Application Serial No.: 15/681, 909 Grant/Contract Number(s): 0504304, 0820831 Foreign Applications filed/intended in (countries): None The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of: The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and 2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award. The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application. 19th October Signed this day of Lisa Lorenzen, Ph.D. (Institutional Business Official) **Executive Director** For IOWA STATE UNIVERSITY (Grantee/Contractor Organization) At Iowa State University Research Foundation, Inc. 1805 Collaboration Place, Suite 2100 Ames, IA 50010

> PATENT REEL: 044255 FRAME: 0494