

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
University of California San Francisco	07/22/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government
<b>Street Address:</b>	NIH Division of Extramural Inventions and Technology Resources (DEITR)
<b>Internal Address:</b>	6705 Rockledge Drive, Suite 310, MSC 7980
<b>City:</b>	Bethesda
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20892-7980
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	11829847
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(301)480-0272
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Email:</b>	edison@nih.gov
<b>Correspondent Name:</b>	Director, DEITR
<b>Address Line 1:</b>	NIH, 6705 Rockledge Drive, Suite 310
<b>Address Line 2:</b>	MSC 7980
<b>Address Line 4:</b>	Bethesda, MARYLAND 20892-7980
<b>NAME OF SUBMITTER:</b>	Director,DEITR,NIH
<b>Total Attachments: 1</b> source=11829847,LAB,08-11-2010#page1.tif	

501258648

**PATENT**  
**REEL: 024819 FRAME: 0282**

## License to the United States Government

Sign and submit the executed document to the appropriate funding agency (e.g. upload in IEdison).

Invention Title: Identification of painful intervertebral discs by high-resolution magic angle spinning (HR-MAS) spectroscopy

Inventor(s): Sharmila Majumdar, Jeff Lotz, John Kurhanewicz, David Bradford, Kayvan R. Keshari

U.S. Filing/Issue Date: 07/27/2007

Patent or Application Serial No.: 11/829,847

Grant/Contract Number(s): R01 AG017762, R21 AR051048

Foreign Applications filed/Intended in (countries): AU, CN, EP, JP, ZA

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 State Government. This document is confirmatory of:

1. 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.

Signed this 22nd day of July, 20 10.

By Dan Abel  
(Name of Grantee/Contractor Official)

  
(Signature)

Title Patent Prosecution and Business Manager

For UNIVERSITY OF CALIFORNIA SAN FRANCISCO  
(Grantee/Contractor Organization)

At Office of Technology Management University of California, San Francisco 185 Berry

Street San Francisco, CA 94107 US  
(Business Address)

SF2005-063-3

PATENT

RECORDED: 08/11/2010

REEL: 024819 FRAME: 0283