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PATENT ASSIGNMENT

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IIName:	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12077970

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PATENT REEL: 027531 FRAME: 0263

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Sign and submit the executed document to the appropriate funding agency (e.g. upload in Ædison). Invention Title: Quantum dot labeling of hMSCs for tracking biological pacemaker localization and migration in vivo inventor(s) Ira S. Cohen, Michael Rosen, Peter Brink, Amy B. Rosen, Glenn Gaudette, Richard B Pobinson U.S. Filing/Issue Date: Patent or Application Serial No.: 12/027, 970 Grant/Contract Number(s): III.028958 . HI.067101 Foreign Applications filed/intended in (countries). 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: 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 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 day of T?", 20 12. By (Institutional Business Official) (Signature) (contraction of the second Title For COLUMBIA UNIV NEW YORK MORNINGSIDE (Grantee/Contractor Organization) At 412 Low Library MC 4308 535 W 116th St New York, NY 10027 US (Business Address)

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