

Accepted Manuscript



Magnetic Resonance Imaging and Molecular Characterization of a Hormone-Mediated Murine Model of Prostate Enlargement and Bladder Outlet Obstruction

Erin M. McAuley, Devkumar Mustafi, Brian W. Simons, Rebecca Valek, Marta Zamora, Erica Markiewicz, Sophia Lamperis, Anthony Williams, Brian B. Roman, Chad Vezina, Greg Karczmar, Aytekin Oto, Donald J. Vander Griend

PII: S0002-9440(17)30482-0

DOI: [10.1016/j.ajpath.2017.07.014](https://doi.org/10.1016/j.ajpath.2017.07.014)

Reference: AJPA 2700

To appear in: *The American Journal of Pathology*

Received Date: 0002-9440 February 0002-9440

Revised Date: 0002-9440 February 0002-9440

Accepted Date: 26 July 2017

Please cite this article as: McAuley EM, Mustafi D, Simons BW, Valek R, Zamora M, Markiewicz E, Lamperis S, Williams A, Roman BB, Vezina C, Karczmar G, Oto A, Vander Griend DJ, Magnetic Resonance Imaging and Molecular Characterization of a Hormone-Mediated Murine Model of Prostate Enlargement and Bladder Outlet Obstruction, *The American Journal of Pathology* (2017), doi: 10.1016/j.ajpath.2017.07.014.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Title: Magnetic Resonance Imaging and Molecular Characterization of a Hormone-Mediated Murine Model of Prostate Enlargement and Bladder Outlet Obstruction

Authors: Erin M. McAuley^{1,4}, Devkumar Mustafi², Brian W. Simons³, Rebecca Valek², Marta Zamora², Erica Markiewicz², Sophia Lamperis⁵, Anthony Williams⁵, Brian B. Roman², Chad Vezina⁴, Greg Karczmar², Aytekin Oto², and Donald J. Vander Griend⁵

¹ The Committee on Molecular Pathology and Molecular Medicine; The University of Chicago, Chicago, IL.

² The Department of Radiology; The University of Chicago, Chicago, IL.

³ The Brady Urological Institute; The Johns Hopkins School of Medicine, Baltimore, MD.

⁴ Department of Comparative Biosciences; University of Wisconsin Madison School of Veterinary Medicine, Madison, WI.

⁵ Department of Surgery, Section of Urology; The University of Chicago, Chicago, IL.

Please address all correspondence to: Donald J. Vander Griend, Ph.D., The University of Chicago Department of Surgery, The Section of Urology, 5841 S. Maryland Ave, MC6038, Chicago, IL 60637; prostate@uchicago.edu

Running Title: A non-inflammation induced murine model of prostate enlargement and BOO.

Key Words: Prostatic Enlargement, Magnetic Resonance Imaging, Benign Prostatic Hyperplasia, Bladder Outlet Obstruction, Testosterone, Estrogen,

Funding: The University of Chicago Department of Surgery, the Section of Urology; the University of Chicago Comprehensive Cancer Center (UCCCC); a Cancer Center Support Grant (NIH NCI P30CA014599); The Brinson Foundation; the Alvin Baum Family Fund; The Pierce Foundation; The University of Chicago Cancer Research Foundation Women's Board; the University of Chicago Comprehensive Cancer Center (UCCCC), NIH NCI R01CA178431 (DJ Vander Griend); E. McAuley was supported by the Molecular and Cellular Biology Training Grant (NIH NIGMS T32GM007183) and currently by an F31 (NIH NIDDK DK111131). C. Vezina is supported by the University of Wisconsin-Madison O'Brien Center Grant (NIH NIDDK U54DK104310 sub#7660). This work was conducted in the Integrated Small Animal Imaging Research Resource (iSAIRR), supported in part by funding provided by the University of Chicago Comprehensive Cancer Center (NIH NCI P30CA014599), by the Biological Sciences Division, and by the Department of Radiology at the University of Chicago.

Download English Version:

<https://daneshyari.com/en/article/8652126>

Download Persian Version:

<https://daneshyari.com/article/8652126>

[Daneshyari.com](https://daneshyari.com)