

Jeffrey “Beau” Henry

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EDUCATION

Mississippi College, Clinton, MS December 2013
Master of Medical Science, Biology

- Alpha Epsilon Delta
- Scored >50th percentile on NBME Histology Board Exam

Millsaps College, Jackson, MS May 2011
Bachelor of Science, English

- Awarded Excellent on Comprehensive Exam (1 of only 2 students recognized)

EXPERIENCE

The University of Mississippi Medical Center, Jackson, MS August 2015 – June 2017
and G.V. (Sonny) Montgomery Veterans Affairs Medical Center
School of Medicine, Department of Medicine

Division of Endocrinology, Diabetes, and Metabolism

Researcher II, Laboratory of Celso E. Gomez-Sanchez, MD

- Investigated diseases of the mineralocorticoid receptor in mouse and rat models
- Investigated secondary stimulation of the glucocorticoid receptor and the G-protein coupled estrogen receptor (GPER & GPR30) in mouse and rat models
- Created and optimized ELISAs for aldosterone, cortisol, 17-OH, 11-*B*-OH, etc.
- Cultured, stimulated, and analyzed cellular response of various cell lines through ELISA, Western blot, and immunohistochemistry/immunofluorescence
- Facilitated in-house production of novel antibodies against MC2R, AT1R, SGLT-2, MR, GR, GPER/GPR30, and KCNJ5; performed cloning; performed sub-cloning; performed experimental validation of generated antibodies

The University of Mississippi Medical Center, Jackson, MS May 2014 – August 2015
School of Medicine, Department of Physiology & Biophysics

Researcher III, Laboratory of Merry L. Lindsey, Ph. D

- Investigated left ventricular extracellular matrix reorganization post-myocardial infarction in a permanent ligation mouse model of myocardial infarct
- Fixed and prepared tissue samples for paraffin embedding; performed immunohistochemistry and immunofluorescence to identify and quantify neutrophil and macrophage infiltration, collagen deposition, and revascularization of infarcted left ventricle; performed infarct area sizing for data normalization; performed image acquisition and image analysis of labeled slides
- Acquired B-Mode, M-Mode, and Anatomical M-Mode echocardiographs for baseline (Day 0) and post-myocardial infarction experimental animals (Day 1, 3, 5, and 7); analyzed echocardiographs to quantify change in ventricular wall thickness, fractional shortening, and ejection fraction
- Performed soluble and insoluble protein extraction; performed protein quantification using the Bradford assay; performed gel electrophoresis, e.g. Western blot; performed BioRad BioPlex assay for protein identification and quantification

- Edited, provided comments, and provided suggestions on grammar, structural organization, and logic for multiple journal article submissions which resulted in publication; edited grant applications which received funding

PUBLICATIONS

Abstract Presentation

- Iyer RP, Chiao YA, **Henry JB**, Flynn ER, Hakala K, Weintraub ST, and de Castro Brás LE. Matrix Metalloproteinase-9 Mediates Mechanisms of Stiffness in the Aging Heart. Keystone Symposia, Cell Biology of the Heart: Beyond the Myocyte-Centric View (X2), Copper Mountain, Colorado (March 1-6, 2015).

Manuscript Citations

- Ma Y, Yabluchansky A, Iyer RP, Flynn ER, **Henry JB**, Cates CA, DeLeon-Pennell KY, and Lindsey ML (2016). "Temporal Neutrophil Polarization Following Myocardial Infarction." *Cardiovascular Research*. 110(1), 51-61. doi: 10.1093/cvr/cvwo24. Epub 2016 Jan 29.
- Iyer RP, de Castro Brás LE, Cannon PL, Ma Y, DeLeon-Pennell KY, Jung M, Flynn ER, **Henry JB**, Bratton DR, White JA, Fulton LK, Grady LW, and Lindsey ML (2016). "Defining the Sham Environment for Post-Myocardial Infarction Studies in Mice." *Am J Physiol Heart Circ Physiol*. 311(3), H822-36. doi: 10.1152/ajpheart.00067.2016. Epub 2016 Aug 12.

Manuscripts in Progress

- Ma Y, Iyer RP, **Henry JB**, and Lindsey ML. How PF4 Affects Macrophage Infiltration, Revascularization, and Scar Formation Following Myocardial Infarction in Mice. (*manuscript in preparation for submission*)
- Iyer RP, Ma Y, DeLeon-Pennell KY, Flynn ER, **Henry JB**, and Lindsey ML. Effect of Matrix Metalloproteinase-9 Inhibition Following Myocardial Infarction in Mice. (*manuscript in preparation for submission*)

Textbook

- Farris, P. K., et al. (ed) *Cosmeceuticals and Cosmetic Practice*. Chichester, UK: John Wiley & Sons, November 2013. (*contribution recognized in "Acknowledgements"*)

VOLUNTEER ACTIVITY

SouthernCare Hospice , Clinton, MS	2013
Habitat for Humanity of Metro Jackson , Jackson, MS	2011
Brown Elementary , Jackson, MS	2011
Operation Shoestring , Jackson, MS	2005 – 2007

REFERENCES

Available upon request.