FACULTY POSITIONS
MISSISSIPPI CENTER FOR OBESITY RESEARCH
University of Mississippi Medical Center

Applications are invited for tenure track faculty positions with state salary support in the Mississippi Center for Obesity Research (MCOR), University of Mississippi Medical Center (UMMC). Applicants will be considered for ranks of assistant, associate or full professor and must have a Ph.D. and/or M.D. degree with appropriate postdoctoral research experience. Academic appointments of MCOR faculty will be in one of the basic science or clinical departments in the School of Medicine. Successful candidates will have significant extramural research funding with demonstrated scholarly productivity in obesity-related basic, clinical or population research. Special consideration will be given to candidates with a strong background in neuroscience, endocrinology or genetics and their application to nutrition, obesity and metabolic disorders. Successful candidates will be able to devote at least 90 percent effort to developing their research programs. The large group of researchers working in the area of obesity-associated cardiovascular, renal and metabolic diseases offers excellent opportunities for collaboration. The MCOR offers excellent core facilities and generous laboratory space in the new state-of-the-art Arthur C. Guyton Research Center. MCOR faculty members will receive competitive salaries and excellent start-up packages. UMMC has an outstanding research incentive plan for investigators with extramural grant funding. The MCOR, a new multidisciplinary research initiative at UMMC, is leading a state-wide effort to translate research results into programs that prevent and more effectively treat obesity and related metabolic diseases. UMMC has committed substantial resources to the MCOR which is poised for significant growth. Additional information about the MCOR can be found at the web site: http://www.umc.edu/mcor/. Jackson and the surrounding communities have a moderate climate, low housing costs and excellent schools. Information about the Jackson metro area can be found at: http://www.visitjackson.com/Visitor-Guides.

Applicants should send curriculum vitae, a statement of research plans and current extramural research funding to: Dr. John E. Hall, Director, Mississippi Center for Obesity Research, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. e-mail: jehall@umc.edu. All applications will be treated confidentially.

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UNIVERSITY OF MISSISSIPPI MEDICAL CENTER
Faculty Positions in Physiology & Biophysics

Applications are invited for tenure track faculty positions with state salary support in the Department of Physiology & Biophysics at the University of Mississippi Medical Center. Applicants will be considered for ranks of assistant, associate, or full Professor and must have a Ph.D. and/or M.D. degree with appropriate postdoctoral research experience. Successful candidates will have significant extramural research funding and demonstrated scholarly productivity. We are seeking individuals who have research interests that complement existing areas of excellence in cardiovascular, renal, and neuroendocrine physiology, and the pathophysiology of obesity, metabolic, cardiovascular and kidney diseases. Successful candidates will devote at least 90% effort to developing a nationally recognized research program. The large group of physiologists in the department offers excellent opportunities for collaboration at molecular, cellular, or systems levels of integration. The department offers generous laboratory space and excellent core facilities in the new state-of-the-art Arthur C. Guyton Research Center. Faculty members receive highly competitive salaries and excellent start-up packages. Additional information about the department and its faculty can be found at the web site: http://physiology.umc.edu/. Jackson, the state capital of Mississippi, and the surrounding communities have a moderate climate, low housing costs and excellent schools. Additional information about the Jackson metro area can be found at: http://www.visitjackson.com/Visitor-Guides.

Applicants should send a curriculum vitae and current extramural research funding to: Dr. John E. Hall, Department of Physiology and Biophysics, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. e-mail: jehall@umc.edu. All applications will be treated confidentially.

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**Marshall University Joan C. Edwards School of Medicine**

**Position:** Three Post-Doctoral Positions

**Duties:** Study the pathophysiology of metabolic syndrome and obesity, using pharmacological and genetic approaches. Studies will be carried out in both animal and stem cell culture models to define the molecular basis of cellular obesity and signaling molecules.

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Candidates should be knowledgeable of arachidonic acid metabolisms, cyclooxygenase, epoxide genase and soluble epoxide hydrolase SIGNALING PATHWAY. Candidates should have experience in small animal handling, molecular biology techniques, biochemical assays and in conducting cell culture studies. The candidate will be involved in the design of experimental protocols; collection, analysis and interpretation of data; preparation of oral and written scientific reports, such as presentation of results at local, state, and national meetings; composition of scientific manuscripts for submission to journals and writing grant applications.

He/she will also participate in interdepartmental seminars, journal clubs and local and national scientific societies. It is also expected that he/she will incorporate previous skills and knowledge into the evolution of data interpretations. Work in an excellent learning and teaching environment, with opportunity for growth and the pursuit of an independent career. Excellent salary compensation and positions are available immediately and will remain open until filled.

**Contact:** Send a curriculum vitae and a cover letter describing research interests and experience to: Nadal G. Abraham, PhD at Abrahamn@Marshall.edu
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Deuterium enriched 4-(dimethylamino) benzoic acid N-hydroxysuccinimide (NHS) ester reagents (d0, d4, d6, d10) derivatize the primary amine group of lipids, such as PE lipid species. The subclasses of PE lipids (diacyl, ether, and plasmalogen) do not produce similar fragmentation patterns in positive ion mode or negative ion mode electrospray tandem mass spectrometry, which makes detection of PE subclasses within biological samples or complex mixtures difficult. Specifically, tandem mass spectrometry most commonly detects PE subclasses by monitoring a neutral loss of 141 (NL141) amu, which is fragmentation associated with the loss of the PE headgroup. However, only diacyl and ether PE species undergo efficient fragmentation of the polar headgroup whereas plasmalogen PE species produce only a very minor ion resulting from the NL141 amu. The DMABA NHS ester reagents were developed by Dr. Robert Murphy’s laboratory at the University of Colorado (Denver, Co) in order to create PE derivatives where all subclasses and potentially oxidized products could be universally detected using a common precursor ion in the positive ion mode.

**References:**