

NANCY A.

2007 Ogden College of Science and Engineering Faculty Excellence in Research/ Creativity Award
1997 National Science Foundation Summer Institute in Japan Review Panel participant
1995-2006 Travel Awards from 5 professional societies to attend their national meetings
1989-1993 Western Kentucky University –Cherry Presidential scholarship (highest academic scholarship)
President’s List (2 semesters); Dean’s List (6 semesters)
1989 Warren Co. Junior Miss Scholarship

GRANTS AND FELLOWSHIPS

Completed

Role: P.I.; “Epigenetic regulation of renin angiotensin system (RAS) genes linked to hypertension”

Role: P.I.; “Prevalence and Mechanism of Essential Hypertension in Kasigau, Kenya”
WKU-Research and Creative Activities Program (RCAP)
01/01/14-05/30/15; \$4,960

Role: P.I.; “Prevalence and Mechanism of Essential Hypertension in Kasigau, Kenya”
WKU-Research and Creative Activities Program (RCAP)
01/01/12-05/30/13; \$9,692

Role : P.I.; “Muscle adaptation in response to voluntary exercise in phosphorylase kinase deficient mice”
WKU Research Foundation
Faculty Fellowship
10/01/06-09/30/07; \$2000

Role: P.I.; “Role of Nitric Oxide Signaling in Myofibroblast Differentiation”
Junior Faculty Research Grant
WKU Research Foundation
03/11/03 – 03/10/04; \$ 4000

PUBLICATIONS

Peer-reviewed papers

In Revision

20. Dobrovolskaite, A.[§] and **Rice, N.A.** (2022) Dietary salt intake and hypertension in a rural population of East Africans. *Int. J. Hypertens.*

In preparation

19. Williams, L. [§], Freeman, J.C. [§] Wright, S[§]., Porter, L. [§], **Rice, N.A.** (202x) Polymorphic variants of renin angiotensin genes are the predominant allele but not correlate with an increased risk for hypertension in a cohort of rural East Africans. *Int. J. Mol. Epidemiol. Genet.*, In preparation.
18. Sharma, B.V., Rowland, N.S., Faughn, J. [§]Eastes, A. N. [§], Walch, E.M. [§] and **Rice, N.A.** (202x) Pulmonary proto-myofibroblast differentiation increases endothelial nitric oxide synthase expression and cell survival. *Cell. Mol. Biol. Lett.* In preparation

Published

17. Knapp, K.L. [§] and **Rice, N.A.** (2015) Human Coinfection with *Borrelia burgdorferi* and *Babesia microti* in the United States. *J. Parasit. Res.* **2015**: 587131.
16. Sharma, B.V., Rowland, N.S., Clouse, M.M., [§] and **Rice, N.A.** (2014) An improved bioassay for measuring low levels of nitric oxide in cultured pulmonary myofibroblasts. *Adv. Biol. Chem.*,**4**: 214-221.
15. Ochwang'i D, Kimwele C, Kiama SG, **Rice N.** (2013) Transcriptional regulation of rat endothelial nitric oxide promoter in pulmonary myofibroblasts cells and its implications in pulmonary fibrosis. *Afr. J. Pharmacol. Ther.* **2**:1–8.
14. Mefford, A.M., [§] Ayers, C.C., [§]Rowland, N.S. and **Rice, NA.** (2013) The *phka1* deficient I/LnJ mouse exhibits endurance exercise deficiency with no compensatory changes in glycolytic gene expression. *Open J. Mol. Integr. Physiol.*, **3**: 87-94
13. Kang, H. et al. (2012) Gender differences in student performance in large lecture classrooms using

- personal response systems (“clickers”) with case studies. *Learn. Media. Technol.* **37**: 53-76. (*Large pedagogical work from NSF CCLI grant– listed as Associate Author due to journal limitation of author number*)
12. Wolter, B. *et al* (2011) Students’ perceptions of using personal response systems (“clickers”) with cases in science. *J. Col. Sci. Teach.* **40**: 14-19. (*Large pedagogical work from NSF CCLI grant– listed as Associate Author due to journal limitation of author number*)
 11. Lundeberg, M.A., Kang, H., Wolter, B., delMas, R., Armstrong, N., Borsari, B., Boury, N., Brickman, P., Hannam, K., Heinz, C., Horvath, T., Knabb, M., Platt, T., **Rice, N.**, Rogers, B., Sharp, J., Ribbens, E., Maier, K.S., Deschryver, M., Hagley, R., Goulet, T. , and Herreid, C.F. (2011) Context matters: increasing understanding with interactive clicker case studies. *Educ. Technol. Res. Dev.* **59**:645–671.
 10. Winchester, J. S. ^{§r}

3.

from WKU Research Foundation

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BMD 493: **Ethics in Health and Biomedical Sciences**

Western Kentucky University

BIOL 113: **Introductory Biology**
BIOL 103: **Introduction to Environmental Science**
BIOL 120: **Introductory Biology -Cells, Genetics, Biochemistry**
BIOL 120H: **Introductory Biology -Cells, Genetics, Biochemistry**
BIOL 153: **Bioethics**
BIOL 275: **Special Topics: The British Contribution to Science**
BIOL 319H: **Intro to Molecular Biology and Cell**
BIOL 403/403G: **Molecular Basis of Cancer**
BIOL 411/H/G: **Cell Biology**
BIOL 412: **Cell Biology lab**
BIOL 560: **Adv. Cell Biology**
BIOL 485/H: **Medicine in Kenya**

INVITED TALKS

February 2022 American Society of Biochemistry and Molecular Biology Catalyst Conversation
 “Women in Leadership in Higher Education”
May 2016 University of Nairobi; Department of Medical Physiology
 “The genetic epidemiology of essential hypertension in rural Kenya: maladaptive or
 inconsequential?”
April 2014 University of Louisville; Department of Epidemiology
 “The genetic epidemiology of essential hypertension in rural Kenya: maladaptive or
 inconsequential?”
October 2012 Kentucky Girls STEM Collaborative Conference – Panelist speaker – “Women in
 Science”

April 2000 “Myofibroblasts: Molecular Crossdressers”
Bemidji State University; Department of Chemistry
“Pathways to Policy Careers: The National Academy of Science’s Policy Intern
Programs”
March 1999 Western Kentucky University; Department of Biology
“Phosphorylase Kinase: A new paradigm in skeletal muscle architecture”

SOCIETY MEMBERSHIPS

American Physiology Society (2012-2017)
Western Kentucky University Sigma Xi (2003 - present)
The Kentucky Academy of Science (2003 -2019)
American Society of Cell Biology (2001- present)

Science Advancement - Cottrell College Science Awards; NIH-National Heart, Lung, Blood Institute –R13 Study Section; Kentucky Academy of Science Research grants; Murdoch Foundation

University

University of South Alabama

College of Allied Health Professions Promotion and Tenure Committee (2019-present)

Council on International Education and Scholarship Committee (2021-

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