

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME C. Craig Tisher, M. D.		POSITION TITLE Professor of Medicine, Pathology and Anatomy & Cell Biology and Dean, College of Medicine	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of South Dakota, Vermillion SD	A. B.	1958	Zoology
Washington Univ. St. Louis MO	M. D.	1961	Medicine
Washington Univ. St. Louis MO	Intern/Resident	1961-63	Medicine
University of Washington, Seattle WA	Resident	1963-64	Medicine
University of Washington, Seattle WA	Research/Fellow	1964-66	Medicine/Nephrology

Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

A. Positions and Honors**Academic Appointments**

1962 Assistant in Medicine, Washington University School of Medicine
 1963 Assistant in Medicine, University of Washington, Affiliated Hospitals
 1969 Assistant Professor, Departments of Medicine and Pathology, Duke University School of Medicine
 1972 Associate Professor, Department of Medicine, Duke University School of Medicine
 1973 Associate Professor, Department of Pathology, Duke University School of Medicine
 1977 Professor, Department of Medicine, Duke University School of Medicine
 1979 Professor, Department of Pathology, Duke University School of Medicine
 1980 Professor, Departments of Medicine and Pathology, University of Florida College of Medicine
 1980-1997 Chief, Division of Nephrology, Hypertension and Transplantation, University of Florida College of Medicine
 1988 Professor, Department of Anatomy and Cell Biology, University of Florida College of Medicine
 1989 Doctoral Research Faculty, Department of Anatomy and Cell Biology, University of Florida College of Medicine
 1989-1999 Central Florida Kidney Center Eminent Scholar Chair in Nephrology, University of Florida College of Medicine
 1992-1997 Associate Chairman for Academic Affairs, Department of Medicine, University of Florida College of Medicine
 1998-2002 Senior Associate Dean, University of Florida, College of Medicine
 1998 Folke H. Peterson/Dean's Distinguished Professorship
 2002 Interim Dean, College of Medicine (April 1-August 31, 2002)
 2002 Dean, College of Medicine (September 1, 2002)

Honors and Awards

Phi Beta Kappa Senior Honorary, University of South Dakota

Who's Who in American Colleges and Universities, University of South Dakota
 Research Career Development Award K04 HL 44074, 1969-1974
 Alumnus Achievement Award, University of South Dakota, School of Medicine, 1970
 Faculty Research Prize in the Clinical Sciences, University of Florida College of Medicine, 1985
 John P. Peters Award, American Society of Nephrology, 2001
 Alpha Omega Alpha Honor Medical Society, 2002 (faculty)

B. Peer-reviewed Publications

1. Tisher, C.C., Bulger, R.E., and Trump, B.F.: Human renal ultrastructure. I. Proximal tubule of healthy individuals. *Lab. Invest.* 15: 1357-1394, 1966.
2. Tisher, C.C., Bulger, R.E., and Valtin, H.: Morphology of the renal medulla in water diuresis and vasopressin-induced antidiuresis. *Am. J. Physiol.* 220: 87-94, 1971.
3. Woodhall, P.B., and Tisher, C.C.: Response of the distal tubule and cortical collecting duct to vasopressin in the rat. *J. Clin. Invest.* 52: 3095-3108, 1973.
4. Call, N.B., and Tisher, C.C.: The urinary concentrating defect in the Gunn strain of rat: Role of bilirubin. *J. Clin. Invest.* 55: 319-329, 1975.
5. Seigler, H.F., Ward, F.E., McCoy, R.C., Gunnells, J.C., Gutman, R.A., Tisher, C.C., Weinerth, J.L., and Stickel, D.L.: Renal transplantation between HL-A haploidentical donor-recipient pairs: Functional and morphological evaluation. *Surgery* 79: 241-247, 1976.
6. Webb, R.K., Woodhall, P.B., Tisher, C.C., Glaubiger, G., Neelon, F.A., and Robinson, R.R.: Relationship between phosphaturia and acute hypercapnia in the rat. *J. Clin. Invest.* 60: 829-837, 1977.
7. Woodhall, P.B., Tisher, C.C., Simonton, C.A., and Robinson, R.R.: Relationship between para-aminohippurate secretion and cellular morphology in rabbit proximal tubules. *J. Clin. Invest.* 61: 1320- 1329, 1978.
8. Morzycka, M., Croker, B.P., Jr., Seigler, H.F., and Tisher, C.C.: Evaluation of recurrent glomerulonephritis in kidney allografts. *Am. J. Med.* 72: 588-598, 1982.
9. Madsen, K.M. and Tisher, C.C.: Structural-functional relationships along the distal nephron. *Am. J. Physiol.* 19: F1-F15, 1986.
10. Verlander, J.W., Madsen, K.M., and Tisher, C.C.: Effect of acute respiratory acidosis on two populations of intercalated cells in rat cortical collecting duct. *Am. J. Physiol.* 253: F1142-F1156, 1987.
11. Verlander, J.W., Madsen, K.M., Galla, J.H., Luke, R.G., and Tisher, C.C.: Response of intercalated cells to chloride depletion metabolic alkalosis. *Am. J. Physiol.* 262: F309-F319, 1992.
12. Verlander, J.W., Madsen, K.M., Cannon, J.K., and Tisher, C.C.: Activation of acid-secreting intercalated cells in the rabbit collecting duct with ammonium chloride-loading. *Am. J. Physiol.* 266: F633-F645, 1994.
13. Ramos, E.L. and Tisher, C.C.: Recurrent diseases in the kidney transplant. *Am. J. Kid. Dis.* 24: 142-154, 1994.
14. Tojo, A., Tisher, C.C., and Madsen, K.M.: Angiotensin II regulates H⁺ATPase activity in rat cortical collecting duct. *Am. J. Physiol.* 267: F1045-F1051, 1994.
15. Tisher, C.C. and Hostetter, T.H.: Diabetic nephropathy. In: Renal Pathology with Clinical and Functional Correlations (2nd ed.), edited by C.C. Tisher and B.M. Brenner, Lippincott, Philadelphia, Vol. II, pp 1387-1412, 1994.
16. Weiner, I.D., New, A.R., Milton, A.E., and Tisher, C.C.: Regulation of luminal alkalinization and acidification in the cortical collecting duct by angiotensin II. *Am. J. Physiol.* 269: F730-F738, 1995.
17. Tisher, C.C.: Recurrence of original disease in the transplant kidney. In: The Principles and Practice of Nephrology (2nd ed.), edited by H.R. Jacobson, G.E. Striker, and S. Klahr, B.C. Decker, Philadelphia, Chapter 121, pp 842-844, 1995.
18. Teng-umnuay, P., Verlander, J.W., Yuan, W., Tisher, C.C., and Madsen, K.M.: Identification of distinct subpopulations of intercalated cells in the mouse collecting duct. *J. Am. Soc. Nephrol.* 7: 260-274, 1996.
19. Kim, J., Cha, J-H., Tisher, C.C., and Madsen, K.M.: Role of apoptotic and nonapoptotic cell death in removal of intercalated cells from developing rat kidney. *Am. J. Physiol.* 270: F55-F592, 1996.

20. Kim, J., Lee, G-S., Tisher, C.C., and Madsen, K.M.: Role of apoptosis in the development of the ascending thin limb of the loop of Henle in rat kidney. *Am. J. Physiol.* 271: F831-F845, 1996.
21. Verlander, J.W., Madsen, K.M., and Tisher, C.C.: Axial distribution of band 3-positive intercalated cells in the collecting duct of control and ammonium-chloride-loaded animals. *Kidney Int.* 50 (Suppl. 57): S137-S147, 1996.
22. Shaw, G.S., Croker, B.P., and Tisher, C.C. Renal biopsy as a guide to treatment of glomerulonephritis. In: Therapy in Nephrology and Hypertension: A Companion to Brenner and Rector's The Kidney, edited by H.R. Brady and C.S. Wilcox, W. B. Saunders, Orlando, Chapter 13, pp. 81-88, 1999.
23. Kim, Y-H., Kwon, T-H., Frische, S., Kim, J., Tisher, C.C., Madsen, K.M., and Nielsen, S.: Immunocytochemical localization in pendrin in intercalated cell subtypes in rat and mouse kidney. *Am. J. Physiol. Renal. Physiol.* 283, F744-F754, 2003.
24. Chen, S., Agarwal, A., Glushakova, O.Y., Jorgensen, M.S., Salgar, S.K., Poirier, A., Flotte, T.R., Croker, B.P., Madsen, KM, Atkinson, M. A., Hauswirth, W. W., Berns, K.I. and Tisher, C.C.: Gene delivery in renal tubular epithelial cells using recombinant adeno-associated viral vectors. *J. Am. Soc. Nephrol.* 14, 947-058, 2003.
25. Tisher, C.C. Structure and function of the kidney. In: Cecil Textbook of Medicine (22nd ed.) edited by L. Goldman and D. Ausiello, W.B. Saunders Co., Philadelphia, Chapter 111, pp. 662-669, 2004.
26. Madsen, K.M., and Tisher, C.C.: Anatomy of the kidney. In, Brenner and Rector's The Kidney (7th ed.), edited by B.M. Brenner, W.B. Saunders, Philadelphia, Chapter 1, pp. 3-72, 2004.
27. Chen, S., Kapturczak, M.H., Wasserfall, C., Glushakova, O.Y., Campbell-Thompson, M., Deshane, J.S., Joseph, R., Cruz, P.E., Hauswirth, W.W., Madsen, K.M., Croker, B.P., Berns, K.I., Atkinson, M.A., Flotte, T.R., Tisher, C.C., Agarwal, A.: Interleukin 10 attenuates neointimal proliferation and inflammation in aortic allografts by a heme oxygenase-Dependent pathway. *Proc Natl Acad Sci, USA.* 102, 7251-7256, 2005.

C. Research Support

Name of Individual:	C. Craig Tisher, M. D.
Active/Pending	Active
Project Number (Principal Investigator):	MO1-RR00082
Source:	National Institutes of Health/NCRR
Title of Project (and/or Subproject):	General Clinical Research Center
Dates of Approved/Proposed Project:	12/01/01-11/30/06

The GCRC currently has over 100 approved inpatient and outpatient protocols conducting research in the Center's inpatient and outpatient rooms, a procedure room, an exercise physiology laboratory and a sleep-study room. We also have a metabolic kitchen with a registered dietitian who oversees the dietary staff who provide nutritional support for protocols with specific dietary needs and a full staff of registered nurses. The GCRC strengthens the institutional infrastructure to train health professionals in patient-oriented research; provide a 10 week GCRC mentored summer experience in patient-oriented research (POR) across a broad variety of disciplines; provide a one year GCRC experience in POR for the full first year medical school class, create a Masters and Doctorate in Clinical Investigation and a one year intensive curriculum in POR for Ph. D. nursing students; ensure appropriate representation of racial and ethnic minorities in all aspects of our training.

Overlap (summarized for each individual):

Active/Pending	Active
Project Number (Principal Investigator):	U01 DK 48677
Source:	National Institutes of Health
Title of Project (and/or Subproject):	Kidney Disease and Hypertension in African Americans – Cohort

Dates of Approved/Proposed Project: **Study**
July 1, 2002 – June 30, 2007

This multi-site study is an extension of the long running African American Study of Kidney Disease and Hypertension with the purpose of tracking those participants to determine the progression of renal disease.

Overlap (*summarized for each individual*):

Active/Pending: Active
Project Number (Principal Investigator): N/A
Source: Lenox Hospital Foundation (funded by grant money from King Monarch)
Title of Project (*and/or Subproject*): Kidney Disease and Hypertension in African Americans – Cohort Study
Dates of Approved/Proposed Project: July 1, 2002 – June 30, 2007

This multi-site study is an extension of the long running African American Study of Kidney Disease and Hypertension with the purpose of tracking those participants to determine the progression of renal disease.

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and responsibilities of principal investigator identified above.

Name of Individual: C. Craig Tisher, M. D.
Active/Pending: Active
Project Number (Principal Investigator): JDF Funded UF Center Award 2000
Source: Juvenile Diabetes Research Foundation
Title of Project (*and/or Subproject*): Sub-project 3 (Co-PI): K1-K3 angiotensin gene therapy for prevention of vascular endothelial cell proliferation and renal transplant loss
Dates of Approved/Proposed Project: 01/02/01-01/01/06

The major goals of this project are...to establish a method to retard or prevent renal allograft loss in kidney transplant recipients. This proposal will test the hypothesis that a recombinant adeno-associated viral (rAAV) vector containing the K1-K3 kringle domains of angiotensin inhibits endothelial and smooth muscle cell (SMC) proliferation and thereby prolongs kidney survival in a rodent renal allograft model of chronic rejection.

Overlap (*summarized for each individual*):