

**BIOGRAPHICAL SKETCH**

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.  
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Susan K. Fellner, MD	POSITION TITLE Research Professor		
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
Smith College, Northampton, MA	BA magna cum laude	1958	Chemistry
University of Florida Medical School, Gainesville,, Fla.	MD with honors	1966	Medicine

**Positions and Employment**

1958-1961 Research Ass't, Dep't Pharmacology, U. Florida Medical School  
 1966-1967 Medical Internship, Duval Medical Center, Jacksonville, Fl.  
 1967-1969 Resident in Medicine Emory School of Medicine, Atlanta, Ga.  
 1969-1971 Fellow in Nephrology, Emory University School of Medicine  
 1971-1983 Division of Nephrology, Emory University School of Medicine  
 Assistant Professor (1971-75) Associate Professor (1976-1983)  
 1983-1996 Section of Nephrology, Pritzker School of Medicine, University of Chicago, Chicago, IL  
 Associate Professor (1983-89) Professor (1983-1996)  
 1996-present Research Professor Department of Cell & Molecular Physiology (Dep't of Cell Biology and Physiology as of 2012).  
 2012-2013 Adjunct Professor, Mount Desert Island Biol. Lab., Salsbury Cove, ME

**Awards, Honors**

Sigma Xi 1958  
 Charles M Pfizer Award 1964  
 Alpha Omega Alpha 1965 (Junior Year)  
 Janet M Glasgow Award (for graduating first in medical school class).  
 Best Clinical Teacher Award, 1979. Emory University School of Medicine  
 Senior Class Picture Award, University of Chicago medical School, 1996  
 American Board of Internal Medicine 1970  
 Subspecialty Board of Nephrology 1972

**C. Selected Peer-Reviewed Publications**

1. [Complex interactions of NO/cGMP/PKG systems on Ca<sup>2+</sup> signaling in afferent arteriolar vascular smooth muscle.](#) **Fellner SK**, Arendshorst WJ. Am J Physiol Heart Circ Physiol. 2010 Jan;298(1):H144-51. Epub 2009 Oct 30.

2. [Angiotensin II-stimulated Ca<sup>2+</sup> entry mechanisms in afferent arterioles: role of transient receptor potential canonical channels and reverse Na<sup>+</sup>/Ca<sup>2+</sup> exchange.](#)

**Fellner SK**, Arendshorst WJ. Am J Physiol Renal Physiol. 2008 Jan;294(1):F212-9. Epub 2007 Oct 31.

3. [ADP-ribosyl cyclase and ryanodine receptor activity contribute to basal renal vasomotor tone and agonist-induced renal vasoconstriction in vivo](#). Thai TL, **Fellner SK**, Arendshorst WJ. Am J Physiol Renal Physiol. 2007 Oct;293(4):F1107-14. Epub 2007 Jul

4. [Voltage-gated Ca<sup>2+</sup> entry and ryanodine receptor Ca<sup>2+</sup>-induced Ca<sup>2+</sup> release in preglomerular arterioles](#). **Fellner SK**, Arendshorst WJ. Am J Physiol Renal Physiol. 2007 May;292(5):F1568-72. Epub 2006 Dec 26.

5. [Endothelin-A and -B receptors, superoxide, and Ca<sup>2+</sup> signaling in afferent arterioles](#). **Fellner SK**, Arendshorst W. Am J Physiol Renal Physiol. 2007 Jan;292(1):F175-84. Epub 2006 Jun 20.

6. [Angiotensin II, reactive oxygen species, and Ca<sup>2+</sup> signaling in afferent arterioles](#). **Fellner SK**, Arendshorst WJ. Am J Physiol Renal Physiol. 2005 Nov;289(5):F1012-9. Epub 2005 Jun 7.

7. [Endothelin-1, superoxide and adenediphosphate ribose cyclase in shark vascular smooth muscle](#). **Fellner SK**, Parker L. J Exp Biol. 2005 Mar;208(Pt 6):1045-52.

8. [Ca<sup>2+</sup> signaling in prothoracicotropic hormone-stimulated prothoracic gland cells of Manduca sexta: evidence for mobilization and entry mechanisms](#). **Fellner SK**, Rybczynski R, Gilbert LI. Insect Biochem Mol Biol. 2005 Apr;35(4):263-75.

9. [Angiotensin II Ca<sup>2+</sup> signaling in rat afferent arterioles: stimulation of cyclic ADP ribose and IP<sub>3</sub> pathways](#). **Fellner SK**, Arendshorst WJ. Am J Physiol Renal Physiol. 2005 Apr;288(4):F785-91. Epub 2004 Dec 14.

10. [Endothelin B receptor Ca<sup>2+</sup> signaling in shark vascular smooth muscle: participation of inositol trisphosphate and ryanodine receptors](#). **Fellner SK**, Parker LA. J Exp Biol. 2004 Sep;207(Pt 19):3411-7.

11. [Endothelin A and B receptors of preglomerular vascular smooth muscle cells](#). **Fellner SK**, Arendshorst WJ. Kidney Int. 2004 May;65(5):1810-7.

12. [Ionic strength and the polyvalent cation receptor of shark rectal gland and artery](#). **Fellner SK**, Parker L. J Exp Zool A Comp Exp Biol. 2004 Mar 1;301(3):235-9.

13. [Gordon Murray: heparin, hemodialysis and hubris](#). **Fellner SK**, Purkerson ML. Am J Nephrol. 2002 Jul;22(2-3):271-7.

14. [A Ca\(2+\)-sensing receptor modulates shark rectal gland function](#). **Fellner SK**, Parker L. J Exp Biol. 2002 Jul;205(Pt 13):1889-97.

15. [Store-operated Ca<sup>2+</sup> entry is exaggerated in fresh preglomerular vascular smooth muscle cells of SHR](#). **Fellner SK**, Arendshorst WJ. Kidney Int. 2002 Jun;61(6):2132-41.

Principal Investigator/Program Director (Last, First, Middle):

- 16. [Ryanodine receptor and capacitative Ca<sup>2+</sup> entry in fresh preglomerular vascular smooth muscle cells.](#) **Fellner SK**, Arendshorst WJ. *Kidney Int.* 2000 Oct;58(4):1686-94.
- 17. [Capacitative calcium entry in smooth muscle cells from preglomerular vessels.](#) **Fellner SK**, Arendshorst WJ. *Am J Physiol.* 1999 Oct;277(4 Pt 2):F533-42.
- 18. [Disparate effects of three types of extracellular acidosis on left ventricular function.](#) Berger DS, **Fellner SK**, Robinson KA, Vlasica K, Godoy IE, Shroff SG. *Am J Physiol.* 1999 Feb;276(2 Pt
- 19. [History of the science of dialysis.](#) Gottschalk CW, **Fellner SK**. *Am J Nephrol.* 1997;17(3-4):289-98.
- 20. [Ischemic heart disease in patients with end-stage renal disease.](#) **Fellner SK**, Follman D, Dasgupta DS, Ward C, Spencer J, Rizowy C. *Adv Ren Replace Ther.* 1996 Jul;3(3):240-9. Review.  
PMID: