

SUMMER RESEARCH INTERNSHIPS

Below is an account of the different projects that summer research interns worked on since 2000 when the program started:

Year	Student Name	Project	
2000	1. Paul Mulvany	Gender and vascular reactivity in Type II diabetes mellitus	
	2. Deandra Dixon/ 3. Chinwe Asomugha	Interactions of salt and nitric oxide in the control of renal vascular tone and blood pressure regulation.	
	4. Cory James	The effects of ACE Inhibitors and angiotensin II receptor antagonists on platelet.	
2001	1. Preston Aycox/ 2. Adrienne Bridges	The reactivity of a control/salt Sprague Dawley rat aorta: thoracic versus abdominal responses to phenylephrine and acetylcholine	
	3. Cesar Munoz	Characterization of the renal effects of PGH ₂ /T _x A ₂ receptor activation.	
	4. Gerald Lindsey	Effect of antioxidants in glycerol-induced acute renal failure.	
	5. Collins Oduogu	Effect of high glucose on vascular reactivity to acetylcholine and phenylephrine.	
	6. Cory James/ 7. Elizabeth Osoro	Mechanisms of the paradoxical hypotensive response to endoperoxide U46619, in male Zucker diabetic rats.	
	8. Gladys Corley	Role of endopeptidases on glycerol-induced acute renal failure.	
	2002	1. Jetavia Jones	Interactions of Nitric Oxide Cytochrome P450 enzymes on renal function.
		2. Shaylarene' Hubert	Induction of Peroxisome Proliferator Activated Receptors (PPAR) alpha and renal vasodilator mechanisms.
3. Lucy Mutembei		Role of endothelin (ET) receptor subtypes, ET/TxA1 crosstalk and sex steroid hormone in vascular reactivity and endotheliopathy in Type II diabetic Zucker rats.	
4. Gary Murphy		Mechanisms of bradykinin-induced relation in the rat aorta.	
2003	1. Mary Williams	PPAR γ induction modulates G protein-coupled receptor agonist-induced vasoconstriction in aorta in acute renal failure.	
	2. Ogechukwu Anozie	Regulation of cerebral blood flow by diabetes and nitric oxide synthase.	
	3. Irmanique Watts	Ciglitazone improves renal function and renal vascular reactivity in glycerol-induced acute renal failure.	
	4. Margo Henry/ Richonda Ross & Ogechukwu Anozie	Reactive oxygen species as signaling molecules in the rat conduit vessel?	
	5. Tina Banks	Interactions of PPAR α and nitric oxide on angiotensin II-induced systemic and renal hemodynamics in the rat.	
	6. Adrian Russell	Renal function and vasomotor activity in mice lacking the PPAR α receptor.	
2004	1. Mario Kelly	Role of protein kinase C and tyrosine in the modulation of	

		cerebral blood flow.
	2. Erika Scott	Hemodynamic changes and vascular reactivity in a 20-HETE - deficient mouse model.
	3. Lauren Wiggins	PPARgamma inducer, ciglitazone, ameliorates acrolein-induced vascular toxicity.
	4. Mariam Abubakar/ 5. Odochi Ohia	Isolation and amplification of positive and negative PPARalpha si RNA plasmid clones.
	6. Kevin Osemene	Androgen receptor blockade and endothelial function in Zucker diabetic rats.
	7. Leticia Wilson	Renal function and vasomotor activity in mice lacking the CYP450 gene.
2005	1. Jacque Washington	Role of heme oxygenase in rhabdomyolysis-induced acute renal failure.
	2. Kevin McDonald II	Contribution of endothelium-derived nitric oxide to eicosanoid-mediated renal vascular responses.
	3. Joycelynn Butler	Is there a role for hydrogen sulfide in nitric oxide production in cerebral micro vascular cells?
	4. Shawanne Scott	Isolation and amplification of positive and negative PPARa siRNA plasmid clones.
	5. Janae Williams	Rho kinase/Rho A kinase pathway in renal vascular reactivity in eNOS (-/-) mice.
2006	1. Angela Hamilton	Regulation of cerebral microcirculation by hydrogen sulfide.
	2. Robyn Butler	Effects of clofibrate on renal NHE3 sensitivity in SHR vs WKY.
	3. Adora Obiechina	Peroxisome proliferator activated receptor gamma-dependent regulation of blood pressure in essential hypertension.
	4. Richland Mosley	
2007	1. Kayama Thomas	Ion transport sensitivity and renal function in Cyp4a14 null mice.
	2. George Njuguna	Interactions of superoxide and iNOS-derived nitric oxide production in salt-loaded SHRs.
	3. Shiva Zangeneh	Vascular responses to hydrogen sulfide in diabetic rats.
	4. Brian Mitchell	Signaling mechanisms involved in PPARa ligand-mediated increase in nitric oxide production.
2008	1. Natalie Osagie	Effect of PPARalpha activation on subarachnoid hemorrhage-induced fall in cerebral blood flow
	2. Michael Clay	Phenotypic characterization of Cyp4a14 null mice
	3. Ndidi Uwadia	PPARgamma-dependent modulation of gene expression in SHR: Role of GRK-2 signaling
	4. Mayra Villalobos	Evaluation of vascular responses of G-protein-coupled agents in Cyp4a14 knock out mice