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## CURRICULUM VITAE

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### EDUCATION

High School Ursuline Academy, Cincinnati, OH, 1976  
College The Ohio State University, Columbus, OH, 1980, BS, Agriculture  
(Animal Science major)  
Graduate Virginia Tech, Blacksburg, VA, 1982, MS, Animal Science  
(Breeding and Genetics)  
Thesis: "Simulation of Genetic Control of Reproduction in Beef  
Cattle."  
University of Georgia, Athens, GA, 1992, MS, Statistics (non-thesis)

### EXPERIENCE

Sep 1982 – Jan 1993

**Agriculture Research Technician III**, Department of Animal and Dairy Science, University of Georgia, Athens, GA

- **Statistical consultant:** Consultant to the Animal and Dairy Science faculty and graduate students in the areas of nutrition, physiology, and genetics. Referrals from other departments.
- **Research:** Responsible for research projects from conception, data collection and analysis through publication. Presentation of findings at national research meetings.
- **National Cattle Evaluation (NCE):** Producer-collected field records and mixed linear model methodology are combined to rank purebred beef cattle on expected progeny differences (EPDs) within a breed. Reports provided and results interpreted for breed association representatives.
- **Computer programming:** Extensive knowledge of COBOL and PL/I to edit, merge, and manipulate large data sets, SAS to provide statistical analysis and process smaller data sets, and FORTRAN to generate simulated beef cattle herds. IBM 3090 mainframe computer, MVS operating system.

Feb 1993 - Present

**Research Statistician/Assistant Professor**, Department of Biostatistics, Medical College of Georgia, Augusta, GA

- **Statistical consultant:** Provide technical assistance for MCG researchers during grant preparation regarding issues dealing with study design, appropriate statistical methods, and sample size determination. Perform analysis of all types of medical and basic research data using SAS including longitudinal data analysis, survival analysis, and categorical data analysis. Presentation of results to faculty, residents, and graduate students. Preparation of the statistical methods and results sections for scientific publications.
- **Research:** Developed a simulation study to investigate the effect of missing data on the ability of mixed models to determine a known underlying variance-covariance structure of longitudinal data using SAS PROC MIXED. Invited to present results at SUGI 24 in Miami, FL.
- **Instruction:** Provide assistance interpreting medical literature for faculty and fellows at Pulmonary Journal Club meetings, 1995 – present.
- **Statistical reviewer:** Journal of Prosthetic Dentistry, 2003 to present.
- **Computer software:** SAS 9.1.3, Word, PowerPoint, Excel, WordPerfect, Quattro Pro, nQuery Advisor 4.0, Power and Precision 2

## PROFESSIONAL CONFERENCES

Section Co-Chair	Coders' Corner. Fourth Annual Conference of the SouthEast SAS Users Group, 1996. Atlanta, GA.
Section Co-Chair	Statistics. Fifth Annual Conference of the SouthEast SAS Users Group, 1997. Jacksonville, FL.
Section Co-Chair	Coders' Corner. Sixth Annual Conference of the SouthEast SAS Users Group, 1998. Norfolk, VA.
Section Co-Chair	Corporate Sponsorship Program. Seventh Annual Conference of the SouthEast SAS Users Group, 1999. Mobile, AL.
Conference Co-Chair	Eighth Annual Conference of the SouthEast SAS Users Group, 2000. Charlotte, NC.
Section Co-Chair	Statistics and Data Analysis. The Southern SAS Users Conference, 2001. New Orleans, LA.
Volunteer Coordinator	Tenth Annual Conference of the SouthEast SAS Users Group. 2002. Savannah, GA.
Section Co-Chair	Statistics and Data Analysis. SAS Users Group International 28 <sup>th</sup> Annual Conference. 2003. Seattle, WA.
Section Co-Chair	Planning, Development, and Support. SAS Users Group International 29 <sup>th</sup> Annual Conference. 2004. Montreal, Canada
Conference Registrar	Twelfth Annual Conference of the SouthEast SAS Users Group. 2004. Nashville, TN.

Section Co-Chair                      Statistics and Data Analysis. SAS Users Group International 30<sup>th</sup> Annual Conference. 2005. Philadelphia, PA.

Conference Registrar                Thirteenth Annual Conference of the SouthEast SAS Users Group. 2005. Portsmouth, VA.

Section Co-Chair                      Statistics and Data Analysis. SAS Users Group International 31<sup>st</sup> Annual Conference. 2006. San Francisco, CA.

### **ABSTRACTS AND PRESENTATIONS (last 5 years)**

- Barnes V, **Johnson M**, Bauza L, Treiber F. 2002. Reproducibility of daytime ambulatory hemodynamic bio-impedance measures in African American adolescents. *Ann Behav Med*; 24(Suppl):S064.
- Barnes V, **Johnson M**, Dekkers J, Treiber, F. 2002. Reproducibility of ambulatory blood pressure measures in African American adolescents. *Ethn & Dis*;12(4) S3-119.
- Barnes V, **Johnson M**, Bauza L, Dekkers J, Treiber F. 2002. Reproducibility of noninvasive measurement of vasoconstrictive tone in adolescents. *Ethn & Dis*;12(4) S3-119.
- Barnes VA, Treiber FA, **Johnson MH**. 2002. Impact of stress reduction on ambulatory blood pressure in African American adolescents (abstract #81). *American Heart Association Research Symposium*. Dallas, TX
- Barnes V, **Johnson M**, Treiber F. 2003. Impact of stress reduction on ambulatory blood pressure in African American adolescents. *Ethn & Dis*; 13:S2-173.
- Lott MN, Marcus DM, Sheils WC, **Johnson MH**, Samy CN. 2003. External Beam Irradiation of Subfoveal Choroidal Neovascularization Complicating Age-Related Macular Degeneration: 4 Year Results of a Prospective, Double-Masked, Randomized Clinical Trial. *Invest. Ophthalmol. Vis. Sci.* 2003;44 (suppl.):Abstract #5007. *Association for Research in Ophthalmology*, Ft. Lauderdale, FL.
- Barbeau P, Bundy V, Humphries MC, **Johnson MH**, Litaker, MS, Gutin B. 2004. Resistin is associated with inflammation in white but not black adolescents. *Obesity Research*, 12(suppl): A147.. *NAASO Annual Scientific Meeting*, Las Vegas, NV.
- Yin Z, Gutin B, Hanes JC, Moore JB, **Johnson MH**, Barbeau P, Thornburg J, Cavnar M, Moore D. 2004. The Medical College of Georgia (MCG) FitKid Project: results of a physical activity intervention during the 3<sup>rd</sup> grade on cardiovascular risk factors. *Obesity Research*, 12(suppl): A7.. *NAASO Annual Scientific Meeting*, Las Vegas, NV.
- Gutin B, Yin Z, Hanes JC, Moore JB, **Johnson MH**, Barbeau P, Thornburg J, Cavnar M, Moore D. 2004. The Medical College of Georgia FitKid Project: results of a physical activity intervention on body composition in 3<sup>rd</sup> graders. *Obesity Research*, 12(suppl): A7. *NAASO Annual Scientific Meeting*, Las Vegas, NV.

- Wang L, Yin Z, Gutin B, Hanes JC, Cavnar MM, Moore JB, **Johnson MH**, Barbeau P, Thornburg JS, Moore D. 2004. A cost-effectiveness analysis of a school-based obesity prevention program. *Obesity Research*, 12(suppl): A18. *NAASO Annual Scientific Meeting*, Las Vegas, NV.
- Lemmon CR, Barbeau P, Howe CA, Yin Z, **Johnson MH**, Gutin B. 2004. Perceived benefits and self-efficacy for physical activity, diet attitudes, and emotional well-being are related to adiposity and cardiovascular fitness in black girls. *Obesity Research*, 12(suppl): A77. *NAASO Annual Scientific Meeting*, Las Vegas, NV.
- Humphries MC, Barbeau P, Yin Z, **Johnson M**, Gutin B. 2005. Submaximal cardiovascular fitness testing as an alternative to maximal oxygen consumption testing in teenagers. *Medicine and Science in Sports and Exercise*, 37 (5 suppl): S18-S19.
- Gutin B, Robinson V, Kapuku G, Humphries MC, **Johnson M**, Barbeau P. 2005. Relations of visceral and subcutaneous abdominal adipose tissue to left ventricular mass in adolescents. *International Journal of Obesity*, in press.
- Ergul, A, Jupin, D, **Johnson, MH**, Prisant, ME. 2005. Elevated ET-1 levels are associated with decreased arterial compliance in hypertensive patients. *59<sup>th</sup> AHA High Blood Pressure Council Meeting*, Washington, DC.
- Fagan SC, Kozak A, Hill WD, Pollock DM, Xu L, **Johnson MH**, Ergul A, Hess DC. 2005. Hypertension after experimental stroke: Candesartan provides neurovascular protection. *American Heart Association, 59th Annual Fall Conferences and Scientific Sessions of the Council for High Blood Pressure Research*. Washington DC, September, 2005
- Barbeau P, Lemmon CR, Stallmann-Jorgensen I, Hatfield Laube J, **Johnson MH**, Gutin B. 2005. Relationship of eating attitudes with adiposity and food intake in young black girls. *Obesity Research*, in press. *NAASO Annual Scientific Meeting*, Vancouver, BC, Canada.
- Gutin B, **Johnson MH**, Gower B, Humphries MC, Hoffman W, Barbeau P. 2005. Fasting insulin concentrations in adolescents: relations to general & visceral adiposity, cardiovascular fitness & free-living physical activity. *Obesity Research*, in press. *NAASO Annual Scientific Meeting*, Vancouver, BC, Canada.
- Bundy V, Barbeau P, **Johnson MH**, Humphries MC, Pollock JS, Gutin B. 2005. Protective effect of adiponectin on the association of adiposity and insulin in adolescents. *Obesity Research*, in press. *NAASO Annual Scientific Meeting*, Vancouver, BC, Canada.

## **INVITED PUBLISHED PAPERS AND PRESENTATIONS**

- Benyshek, LL, Bertrand JK, Little DE, **Johnson MH**, Kriese LA. 1988. Evaluating and reporting carcass traits. *Proceedings of Annual Beef Improvement Federation Meeting*. Albuquerque, NM.
- Benyshek, LL, **Johnson MH**, Little DE, Bertrand JK, Kriese LA. 1988. Applications of an animal model in the United States beef cattle industry. *Proceedings of an Animal Model Workshop*. Annual Meeting of the American Dairy Association, Edmonton AL, Canada.
- Bertrand, JK, Benyshek LL, Little DE, **Johnson MH**, Kriese LA, Arnold JW. 1989. Carcass expected progeny differences. *Proceedings of Annual Beef Improvement Federation Meeting*. Nashville, TN.
- Johnson, M.** 1998. The effect of missing data on repeated measures models. *SAS Institute, Inc., Proceedings of the Sixth Annual Conference of the SouthEast SAS Users Group*: 621-5. Norfolk, VA.
- Johnson, M.** 1999. The effect of missing data on repeated measures models. *SAS Institute Inc., Proceedings of the Twenty-Fourth SAS Users Group International Conference*: 1513-8. Miami, FL.
- Johnson, M.** 1999. Analysis of longitudinal data: comparison between PROC GLM and PROC MIXED. *SAS Institute, Inc., Proceedings of the 7<sup>th</sup> Annual Conference of the SouthEast SAS Users Group*: 379-384. Mobile, AL.
- Johnson, M.** 2001. Individual growth analysis using PROC MIXED. *SSU 2001, Proceedings of the Southern SAS Users Group Conference*: 602-8. New Orleans, LA.
- Johnson, M.** 2002. Individual growth analysis using PROC MIXED. *SAS Institute Inc., Proceedings of the Twenty-Seventh SAS Users Group International Conference*. Orlando, FL.
- Johnson, MH.** 2003. Analysis of Longitudinal Data: Comparison between PROC GLM and PROC MIXED. *Tennessee SAS<sup>®</sup> Users Day Conference Proceedings, 23 June 2003, Knoxville Tennessee*: 47-52.

## **PUBLICATIONS IN REFEREED JOURNALS**

- Comerford, JW, Bertrand JK, Benyshek LL, **Johnson MH**. 1987. Reproductive rates, birth weight, calving ease and 24-h calf survival in a four-breed diallel among Simmental, Limousin, Polled Hereford and Brahman beef cattle. *J. Anim. Sci.* 64: 65.
- Mabry, JW, Benyshek LL, **Johnson MH**, Little DE. 1987. A comparison of methods for ranking boars from different central test stations. *J. Anim. Sci.* 65: 56.

- Johnson, MH**, Notter DR. 1987. Simulation of genetic control of reproduction in beef cows. I. Simulation model. *J. Anim. Sci.* 65: 68.
- Johnson, MH**, Notter DR. 1987. Simulation of genetic control of reproduction in beef cows. II. Derived genetic parameters. *J. Anim. Sci.* 65: 76.
- Notter, DR, **Johnson MH**. 1987. Simulation of genetic control of reproduction in beef cows. III. Within-herd breeding value estimation with known breeding dates. *J. Anim. Sci.* 65: 88.
- Notter, DR, **Johnson MH**. 1988. Simulation of genetic control of reproduction in beef cows. IV. Within-herd breeding value estimation with pasture mating. *J. Anim. Sci.* 66: 280.
- Comerford, JW, Benyshek LL, Bertrand JK, **Johnson MH**. 1988. Evaluation of performance characteristics in a diallel among Simmental, Limousin, Polled Hereford and Brahman beef cattle. I. Growth, hip height and pelvic size. *J. Anim. Sci.* 66: 293.
- Comerford, JW, Benyshek LL, Bertrand JK, **Johnson MH**. 1988. Evaluation of performance characteristics in a diallel among Simmental, Limousin, Polled Hereford and Brahman beef cattle. II. Carcass traits. *J. Anim. Sci.* 66: 306.
- Johnston, DJ, Benyshek LL, Bertrand JK, **Johnson MH**, Weiss GM. 1992. Estimates of genetic parameters for growth and carcass traits in Charolais cattle. *Can. J. Anim. Sci.* 72: 493-9.
- Durant, RH, Baranowski T, **Johnson MH**, Thompson WO. 1994. The relationship among television watching, physical activity and body composition of young children. *Pediatrics* 94: 449-55.
- Durant, RH, Baranowski T, **Johnson MH**, Thompson WO. 1996. The relationship among television watching, physical activity and body composition of 5- or 6-year-old children. *Pediatric Exerc. Sci.* 8: 15-26.
- Curtis, JW Jr., Dickinson GL, Downey MC, Russell CM, Haywood VB, Myers ML, **Johnson MH**. 1996. Assessing the effects of 10 percent carbamide peroxide on oral soft tissues. *J. Am. Dent. Assoc.* 127: 1218-23.
- Russell, CM, Dickinson GL, **Johnson MH**, Curtis JW, Downey MC, Haywood VB, Myers ML. 1996. Dentist-supervised home bleaching with ten percent carbamide peroxide gel: A six-month study. *J. Esthet. Dent.* 8: 177-82.
- Yoshiyama, M, Sano, H, Ebisu, S, Tagami, J, Ciucchi, B, Carvalho, RM, **Johnson, MH**, Pashley, DH. 1996. Regional strengths of bonding agents to cervical sclerotic root dentin. *J Dent Res* 75(6): 1404-13.
- Garris, PD, Gallup, DC, Gallup, DG, **Johnson MH**, Messing, MJ, King, LA. 1997. The cystometric evaluation of bladder function before and after radical hysterectomy. *J Pelvi Surg* 3(1): 15-8.

- Baxter, SD, Thompson, WO, Davis, HC, **Johnson, MH**. 1997. "How do you remember you ate...": a Delphi technique study to identify retrieval categories from fourth-grade children. *J Am Diet Assoc*. 97(1): 31-6.
- Chacko, JG, Fiuroa, RE, **Johnson, MH**, Marcus, DM, Brooks, SE. 1997. Detection and localization of steel intraocular foreign bodies using computed tomography. *Ophthalmology* 104(2): 319-23.
- Baxter, SD, Thompson, WO, Davis, HC, **Johnson, MH**. 1997. Impact of gender, ethnicity, meal component, and time interval between eating and reporting on accuracy of fourth-graders= self-reports of school lunch. *J Am Diet Assoc*. 97(11): 1293-8.
- Albritton, TA, Miller, MD, **Johnson, MH**, Rahn, DW. 1997. Using relative value units to measure faculty clinical productivity. *J Gen Int Med*. 12(11): 715-7.
- Kirby, AD, Wolfe, RR, **Johnson, M**, Leatherbury, L, Kirby, ML. 1997. Transient cranial hemorrhage does not cause depressed contractility in cardiac neural crest-ablated chick embryos. *Teratology*. 56(5): 300-4.
- Brooks, SE, Laird, M.L, Marcus, DM, **Johnson, MH**, Ramage, JI, Green, K. 1998. Kinetics of fluid delivery from methylcellulose sponges. *J Glaucoma*. 7(1): 16-21.
- Brooks, SE, Yu, JC, Preston, D, **Johnson, M**. 1998. Quantitative forced ductions in an animal model - characterization of passive forces. *J Am Assoc for Pediatric Ophthalmology and Strabismus*. 2(4): 239-45.
- Brooks, SE, Yu, JC, Preston, D, **Johnson, M**. 1998. Restricted ocular motility after orbital trauma - studies with an animal model. *J Am Assoc for Pediatric Ophthalmology and Strabismus*. 2(4): 246-52.
- Lane, RB Jr., Lane, CG, Mangold, KA, **Johnson, MH**, Allsbrook, WC Jr. 1998. Needle biopsies of the prostate: what constitutes adequate histologic sampling?. *Arch of Path & Lab Med*. 122(9): 833-5.
- Marcus, DM, Brooks, SE, Ulrich, LD, Bassi, FH, Laird, M, **Johnson, M**, Newman, C. 1998. Telemedicine diagnosis of eye disorders by direct ophthalmoscopy. A pilot study. *Ophthalmology*. 105(10):1907-14.
- Brooks, SE, **Johnson, M**, Wallace, DK, Paysse, EA, Coats, DK, Marcus, DM. 1999. Treatment outcome in fellow eyes after laser photocoagulation for retinopathy of prematurity. *Am J Ophthalmology*. 127(1):56-61.
- Threlkeld, AB, **Johnson, MH**. 1999. Contact transscleral diode cyclophotocoagulation for refractory glaucoma. *J Glaucoma*. 8(1):3-7.
- Threlkeld, AB, Fahd, T, Camp, M, **Johnson, MH**. 1999. Telemedical evaluation of ocular adnexa

- and anterior segment. *Am J Ophthalmology*. 127(4):464-6.
- Yu, JC, Brooks, SE, Preston, D, **Johnson, MH**. 1999. Treatment of posttraumatic ocular dysmotility using autogenous buccal fat grafts in a porcine model. *Plastic and Reconstructive Surgery*. 104(3):719-25.
- Harshfield, GA, Treiber, FA, Davis, H, **Johnson, M**, Slavens, GA., Thompson, W. 1999. Temporal stability of ambulatory blood pressure and heart rate in youths. *Blood Pressure Monitoring*. 4(2):87-90.
- Brooks, SE, Marcus, DM, Gillis, D, Pirie, E, **Johnson, MH**, Bhatia, J. 1999. The effect of blood transfusion protocol on retinopathy of prematurity: A prospective, randomized study. *Pediatrics*. 104(3): 514-518.
- Harshfield, GA, Treiber, FA, Davis, H, **Johnson, M**, Slavens, GA, Thompson, W. 1999. Temporal stability of ambulatory blood pressure and heart rate in youths. *Blood Pressure Monitoring*. 4(2):87-90.
- Yu, JC, Brooks, SE, Preston, D, **Johnson, MH**. 1999. Treatment of posttraumatic ocular dysmotility using autogenous buccal fat grafts in a porcine model. *Plast. Reconstr. Surg*. 104(3):719-725.
- Marcus, DM, Camp, MW, Sheils, WC, McIntosh, SB, Leibach, DB, **Johnson, MH**, Samy, CN. 1999. Sham radiation in clinical trials assessing radiotherapy for exudative age-related macular degeneration. *Retina*. 19(6): 525-530.
- El Etreby, MF, Liang, Y, **Johnson, MH**, Lewis, RW. 2000. Antitumor activity of mifepristone in the human LNCap, LNCap-C4, and LNCaP-C4-2 prostate cancer models in nude mice. *The Prostate*. 42(2):99-106.
- Allsbrook, WC, Mangold, KA, **Johnson, MH**, Lane, RB, Lane, CG, Epstein, JI. 2001. Interobserver reproducibility of Gleason grading of prostatic carcinoma. I. Urologic pathologists. *Human Path*. 32(1):74-80.
- Allsbrook, WC, Mangold, KA, **Johnson, MH**, Lane, RB, Lane, CG, Epstein, JI. 2001. Interobserver reproducibility of Gleason grading of prostatic carcinoma. II. General pathologists. *Human Path*. 32(1):81-88.
- Marcus, DM, Sheils, WC, **Johnson, MH**, McIntosh, SB, Leibach, DB, Maguire, A, Alexander, J, Samy, CN. 2001. External beam irradiation of subfoveal choroidal neovascularization complicating age-related macular degeneration: one-year results of a prospective, double-masked, randomized pilot clinical trial. *Archives of Ophthalmology*. 119(2):171-180.
- Marcus, DM, Costarides, AP, Gokhale, P, Papastergiou, G, Miller, JJ, **Johnson, MH**, Chaudary, BA. 2001. Sleep disorders: a risk factor for normal-tension glaucoma? *J Glaucoma* 10(3): 177-83.

- Barnes, VA, **Johnson, MH**, Dekkers, C, Treiber, FA. 2002. Reproducibility of ambulatory blood pressure measures in African-American adolescents. *Ethnicity & Disease* 12(3): 101-6.
- Dillard, TA, Reyes, J, **Johnson, M**, Baker, R. 2003. Patient-based studies of agreement between spirometers. *Resp. Care* 48(6): 587-8.
- Fagan, SC, Nagaraja, TN, Fenstermacher, JD, Zheng, J, **Johnson, M**, Knight, RA. 2003. Hemorrhagic transformation is related to the duration of occlusion and treatment with tissue plasminogen activator in a non-embolic stroke model. *Neurological Research* 25: 377-82.
- Marcus DM, Sheils WC, Young JO, McIntosh SB, **Johnson MH**, Alexander J, Samy CN. 2004. Radiotherapy for recurrent choroidal neovascularization complicating age-related macular degeneration. *Br J Ophthalmol* 88: 114-9.
- Barnes V, Treiber F, **Johnson M**. 2004. Impact of Transcendental Meditation on ambulatory blood pressure in African American adolescents. *Am J Hypertens* 17:366-9.
- Barnes, VA, **Johnson, MH**, Treiber, FA. 2004. Temporal stability of twenty-four-hour ambulatory hemodynamic bioimpedance measures in African American adolescents. *Blood Pressure Monitoring* 9:173-7.
- Childs, AJ, Friedman, WH, Schwartz, MP, **Johnson, M**, Royek, AB. 2005. Female patients' sex preferences in selection of gynecologists and surgeons. *Southern Medical Journal* 98:405-8.
- Harris AK, Ergul A, Kozak A, Machado LS, **Johnson MH**, Fagan SC. 2005. Effect of neutrophil depletion on gelatinase expression, edema formation and hemorrhagic transformation after focal ischemic stroke. *BMC Neuroscience* 6:49.
- Gutin, B, Howe, CA, **Johnson, MH**, Humphries, MC, Snieder, H, Barbeau, P. 2006. Heart rate variability in adolescents: relations to physical activity, fitness and adiposity. *Med & Sci in Sports & Exercise (In Press)*.
- Harris, AK, Hutchinson, JR, Sachindanandam, K, Dorrance, A, Stepp, D, **Johnson, MH**, Fagan, SC, Ergul, A. 2006. Type 2 diabetes causes remodeling of cerebrovasculature via differential regulation of matrix metalloproteinases and collagen synthesis: role of endothelin-1. *Diabetes (In Press)*.
- Yin Z, Moore JB, **Johnson MH**, Barbeau P, Cavnar M, Thornburg J, Gutin B. 2006. The Medical College of Georgia FitKid Project: the relations between program attendance and changes in outcomes in year 1. *International Journal of Obesity (In Press)*

Hoffman WH, Barbeau P, Litaker MS, **Johnson MH**, Howe CA, Gutin B. 2006. Secondary sexual characteristics and body composition, blood pressure and insulin in black girls. *Obesity Research, (In Press)*.

Yin Z, Gutin B, **Johnson MH**, Hanes Jr J, Moore JB, Cavnar M, Thornburg J, Moore D, Barbeau P. 2006. An environmental approach to obesity prevention in children: MCG FitKid Project year 1 results. *Obesity Research, (In Press)*.

Portik-Dobos V, Harris AK, Song W, Hutchison J, **Johnson M**, Imig J, Pollock DM, Ergul A. 2006. Endothelin antagonism prevents EGFR transactivation but not early activation of renal matrix metalloproteinase activity in Type 2 diabetes. *Am. J. Physiol., (In Press)*.

Fagan SC, Kozak A, Hill WD, Pollock DM, Xu L, **Johnson MH**, Ergul A, Hess DC. 2006. Hypertension after cerebral ischemia: candesartan provides neurovascular protection. *J Hypertens, 24:535-539*.

Hepp GR, Kennamer RA, **Johnson MH**. 2006. Maternal effects in wood ducks: incubation temperature influences incubation period and neonate phenotype. *Functional Ecology, (In Press)*.

#### **MANUSCRIPTS SUBMITTED OR IN PREPARATION**

Yelbuz TM, Leatherbury L, Wessel A, Wolfe RR, **Johnson M**, Kirby ML. 2005. Quantitative analysis of ventricular pump function and midwall dynamics in the early embryonic heart after cardiac neural crest ablation. *Submitted to Zeitschrift fur Kardiologie*.

Bundy V, Pollock J, **Johnson MH**, Litaker MS, Gutin B, Barbeau P. 2005. Resistin is associated with inflammatory markers in healthy teenagers. *In preparation*.

Barbeau P, Robinson V, Kapuku G, Humphries MC, **Johnson MH**, Gutin B. 2005. Left ventricular mass and function in black and white adolescents: relations to general and visceral adiposity, physical activity and fitness, insulin, and blood pressure. *In preparation*.

Barbeau P, **Johnson MH**, Howe CA, Allison J, Davis CL, Gutin B, Lemmon CR. 2005. MCG Exercise Project: Changes in body composition, visceral adiposity, and fitness in young black girls. *Submitted to Obesity Research, September 2005*.

Ergul A, Jupin D, **Johnson MH**, Prisant LM. 2005. Elevated ET-1 Levels are Associated with Decreased Arterial Elasticity in Hypertensive Patients. *Submitted to Hypertens, November 2005*.

Wang LY, Yin Z, Barbeau P, Moore JB, Hanes Jr J, **Johnson MH**, Cavnar M, Thornburgh J, Gutin B. 2005. Cost-effectiveness of a school-based obesity prevention program. *Submitted to Obesity Research, November 2005*.

## **RESEARCH PROJECTS ONGOING OR COMPLETED DURING THE LAST 3 YEARS**

### ***“Vascular Protection in Acute Ischemic Stroke”***

**Principal Investigator:** S. Fagan    **Role:** Biostatistician (5% effort)    **Period:** 2003-2006  
NIH/NINDS

The major goals of this project are to determine the role of neutrophil and tissue-derived proteases in the development of hemorrhagic transformation after cerebral ischemia in the rat.

### ***“Xanthophyll-mediated Retinal Drug Delivery”***

**Principal Investigator:** DM Marcus    **Role:** Biostatistician (5% effort)    **Period:** 2003-2006  
NIH/NEI

To evaluate the potential of xanthophylls-mediated drug delivery, lutein and zeaxanthin will be chemically linked to ketorolac, a non-steroidal anti-inflammatory drug, or triamcinolone, a steroid. The resulting linked compounds will then be tested for accumulation in Japanese quail, a proven animal model for xanthophylls studies.

### ***“LACHY: Lifestyle, Adiposity and Cardiovascular Health in Youths”***

**Principal Investigator:** B Gutin    **Role:** Biostatistician (20% effort)    **Period:** 2000–2004  
NIH/NHLBI

This study will determine relationships between physical activity, diet, general and central adiposity, and cardiovascular risk factors in 800 15-18 year old white and black, girls and boys.

### ***“APEX: Adiposity Prevention by Exercise in Black Girls”***

**Principal Investigator:** P Barbeau    **Role:** Biostatistician (15% effort)    **Period:** 2000–2005  
NIH/NHLBI

This study will determine whether participating in a 10-month after-school program will result in less fat accretion in 8-10 year old black girls compared to a control group.

### ***“Medical College of Georgia FitKid Project”***

**Principal Investigator:** B Gutin    **Role:** Biostatistician (25% effort)    **Period:** 2002–2007  
NIH/NIDDK

This study will determine whether youths attending schools that provide a “fitogenic” after-school environment that encourages physical activity and healthy snacks will show favorable changes in body composition, cardiovascular fitness, cardiovascular disease risk factors, and psychosocial characteristics over a 3-year period, from 3<sup>rd</sup> to 5<sup>th</sup> grades.

### ***“Stress Related Mechanisms of Hypertension Risk”***

#### ***Project 3: “Exercise: Impact on Reactivity and BP Risk Factors”***

**Principal Investigator:** F Treiber    **Role:** Biostatistician (10% effort)    **Period:** 2002–2007  
NIH/NIDDK

The purpose of this program project grant is to investigate, from different view points, the antecedents of high blood pressure in youths. The purpose of Project 3 is to evaluate the impact of a 10-month after-school physical activity intervention on markers of endothelial function, sympathetic nervous activity, kidney function, and other cardiovascular disease risk factors in

300 elementary school black children.

***“Vascular Protection & Endothelin B Receptors in Diabetes”***

**Principal Investigator:** A Ergul    **Role:** Biostatistician (10% effort)    **Period:** 2005–2009  
NIH/NINDS

The goal of this study is to better understand the mechanistic basis of cerebrovascular dysfunction of diabetics using the central hypothesis that diabetes-induced changes in the ET system promote hypertrophic remodeling of cerebral microvessels via MMP-mediated activation of cell surface-bound growth signals.